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**Applicant: Medical Research Council**  
**Title: Crystal Structure of Antibiotics Bound to the**  
**30S Ribosome and Its Use**

UK Priority Application No  
0029871.1





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Patents ADP number (if you know it)

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08DEC00 E589729-2 D00060

P01/7700 0.00-0029871.1

596 007001

If the applicant is a corporate body, give the country/state of its incorporation

UNITED KINGDOM

4. Title of the invention

CRYSTAL STRUCTURE (V)

5. Name of your agent (if you have one)

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Country

Priority application number  
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Date of filing  
(day / month / year)

GB

0017376.5

14/07/00

GB

0022943.5

19/09/00

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

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CRYSTAL STRUCTURE (V)

This application claims priority from UK application 0017376.5 filed July 14, 2000, and UK application 0022943.5 filed 19  
5 September 2000, the contents of both of which are incorporated herein by reference.

Field of the Invention

10 The present invention relates to the provision of a high resolution crystal structure of the antibiotic hygromycin B bound to the prokaryotic 30S ribosome subunit, and the use of this structure in drug discovery.

15 Background of the Invention

Translation of the genetic code occurs on the ribosome, a large nucleoprotein complex that consists of two subunits. In bacteria, the two subunits are denoted 30S and 50S. The 50S  
20 subunit contains the catalytic site of peptidyl transferase activity, while the 30S subunit plays a crucial role in decoding messenger RNA. Protein synthesis is a complex, multistep process, that requires several extrinsic GTP-hydrolysing protein factors during each of the main stages of  
25 initiation, elongation and termination. Despite several decades of work, the molecular details of the process are poorly understood, and the elucidation of the mechanism of translation is one of the fundamental problems in molecular biology today.

30 An important contribution to this problem was made by Yonath and co-workers, who after nearly a decade of work showed that structures as large as the 50S ribosomal subunit would form



crystals that diffract beyond about 3 Å resolution (J. Mol. Biol. 203, 831-834 (1988), Acta Crystallogr A54, 945-55 (1998)). Originally, it was not clear that phase information from such a large asymmetric unit could be obtained to high resolution, but the development of bright, tuneable synchrotron radiation sources, large and accurate area detectors, vastly improved crystallographic computing, and the advent of cryocrystallography have all contributed to making structural studies of the ribosome more tractable. In our work, the use of anomalous scattering from the LIII edges of lanthanides and osmium has also played a critical role in obtaining phases.

The 30S ribosomal subunit (hereafter referred to as 30S) from *Thermus thermophilus* was originally crystallized by Trakhanov et al. in 2-methyl-2,4-pentanediol (MPD) (FEBS Lett. 220, 319-322 (1987)) and soon afterwards by Yonath and coworkers in a mixture of ethyl-butanol and ethanol. Subsequent work by both groups showed that the MPD crystal form diffracted to about 9-12 Å resolution. The diffraction limit of these crystals did not improve beyond 7 Å resolution for almost a decade, but more recently both Yonath and coworkers and we obtained crystals of the MPD form that exhibit significantly improved diffraction. However, unlike the crystals obtained by the Yonath group, our crystals do not require soaking in tungsten clusters or heat treatment in order to obtain high resolution diffraction.

Last year, we described the structure of the 30S at 5.5 Å resolution (Nature 400, 833-840 (1999)). We were able to place all seven proteins whose structures were known at the time, infer the structure of protein S20 to be a three-helix bundle, trace the fold of an entire domain of 16S RNA, and identify a



long RNA helix at the interface that contains the decoding site of the 30S. Proteins S5 and S7 were also placed in electron density maps of the 30S obtained by Yonath and coworkers.

5

The 30S ribosomal subunit is a major target for antibiotics. The ribosome is a useful target for antibiotics since the structure of the 30S is widely conserved between prokaryotes, allowing for broad spectrum antibiotics. However, resistance to current antibiotics is currently a major problem in the field of medicine. There are presently very few new antibiotics available which can be used to treat the highly resistant strains of bacteria such as MRSA (methicillin resistant *Staphylococcus aureus*) which are becoming increasingly widespread.

15

Understanding the interaction of antibiotics with the ribosome at the molecular level is important for two reasons. Firstly, antibiotics act by interfering with various aspects of ribosome function. Thus understanding their interaction will help shed light on mechanisms involved in translation. Secondly, a detailed knowledge of antibiotic interactions with the ribosome could aid the development of new drugs against increasingly resistant strains of bacteria. Although antibiotics were characterized several decades ago, a detailed knowledge of their mechanism will in general require a three-dimensional structure of their complex with the ribosome.

25

The low (worse than 3Å resolution) crystal structures described above do not provide sufficiently detailed resolution for useful modelling of the crystal structure of the 30S and there is thus a need for a high resolution structure which can be used usefully in the development of

30



novel therapeutics.

Summary of the Invention

5 Our earlier co-pending applications GB0017376.5 and GB0022943.5 provide a high resolution crystal structure of the 30S ribosomal subunit, together with the structure of three antibiotics, paromomycin, streptomycin and spectinomycin bound to this\_subunit.

10 The structure of the 30S ribosome is available from the Research Collaboratory for Structural Bioinformatics (RCSB) at <http://www.rcsb.org> with the accession code 1FJF. The antibiotic bound structure is available at the same location  
15 with the accession code 1FJG.

We have now continued this work and identified the location and binding of the antibiotic hygromycin B.

20 In a first aspect, the present invention provides a crystal structure of the *Thermus thermophilus* 30S subunit bound to hygromycin B having a tetragonal space group  $P4_12_12$  with unit cell dimensions of  $a = 402.063$ ,  $b = 402.063$ ,  $c = 175.263\text{\AA}$ , or more generally,  $a = 402.063 \pm 0.7$ ,  $b = 402.063 \pm 0.7$ ,  $c =$   
25  $175.263 \pm 0.7$   $\text{\AA}$ . Such a structure includes the 30S crystal of Table 1. An advantageous feature of the structure is that it diffracts beyond  $3\text{\AA}$  resolution. Another feature of the structure is that it was obtained in a method which did not involve the use of heavy atom clusters or heat activation.  
30 Furthermore, it is specifically of the 885-888/910-912 base pairing confirmation of 16S RNA. These features, both singly and in combination all contribute to features of the invention which are advantageous.



The coordinates of Table 1 provides a measure of atomic location in Angstroms, to a third decimal place. In order to use the information in these Tables for the purposes described  
5 herein as being aspects of the present invention, these coordinates may be varied by  $\pm 0.7$ , preferably no more than  $\pm 0.5$  Angstroms, without departing from the scope of the invention. Reference herein to the use of the coordinates of Table 1 thus includes the use of coordinates in which one or  
10 more individual values of the Table are adjusted by this amount.

We have also observed that 30S crystals do not contain the S1 subunit protein. In our studies, we have found that by  
15 selectively removing this protein prior to crystallization, we have been able to obtain the improved resolution described herein. Although the atomic co-ordinates provided in Table 1 allow those of skill in the art to bypass the need to undertake the crystallization of the 30S, this crystallization  
20 method nonetheless forms a further aspect of the invention.

Accordingly, there is provided a method for crystallizing the 30S subunit bound to hygromycin B to obtain a high resolution structure of said bound 30S subunit, which method comprises  
25 providing a 30S subunit, selectively removing the S1 subunit therefrom (e.g. by hydrophobic interaction chromatography or by gel electrophoresis), crystallizing the 30S and soaking the crystal with hygromycin B (e.g. from 10 to 500  $\mu\text{M}$ , preferably 50 to 100  $\mu\text{M}$ , such as about 80  $\mu\text{M}$ ). The crystallization  
30 conditions may comprises the use of 13-17% methyl-2,4-pentanediol in the presence of 250 mM KCl, 75 mM ammonium chloride, 15 mM  $\text{MgCl}_2$  at a pH of 6.5 in sodium cacodylate or MES (2-(N-morpholino)ethane sulphonic acid). In another



aspect, the conditions may comprise the use of 250 mM KCl, 75 mM NH<sub>4</sub>Cl, 25 mM MgCl<sub>2</sub>, 6 mM 2-mercaptoethanol in 0.1 M potassium cacodylate or 0.1 M MES (2-N-morpholino-ethanesulfonic acid) at pH 6.5 with 13-17% MPD as the  
5 precipitant.

Crystals may be grown over a period of 4-8 weeks at about 4°C, prior to soaking in accordance with normal procedures known as such to those of skill in the art. Crystals obtainable by  
10 such a method are also a further aspect of the invention.

This methodology provides those of skill in the art a means to provide 30S crystals of *T.thermophilus* to which hygromycin B is bound. The conservation of ribosome structure,  
15 particularly regions of structure essential for function, between prokaryotes, for example prokaryotes which are human pathogens, such as *Staphylococcus* spp, and the like, allows the structure herein to be useful in the provision of anti-bacterial agents in general.

20 The crystals may be grown by any suitable method known as such to those of skill in the art. The structure of the crystals so obtained may be resolved to a resolution of at least 3Å.

25 Table 1 also includes the coordinates of a number of metal ions. Reference to Table 1 also includes reference to this table in which some or all of these metal ion coordinates are omitted.

30 The coordinates of hygromycin B in Table 1 are listed as atoms 51780-51815. Table 1 also lists the coordinates of a 26 amino acid peptide, Thx (atoms 51571-51779), as well as a 6 nucleotide fragment of mRNA, NNNUCU, designated as molecule X



(32392-32508). Both the coordinates of both these molecules may likewise optionally be discarded, i.e. so that the coordinates of the 16S mRNA and the proteins S2 to S20 alone are modelled and used in applications of the invention.

5

The provision of the high resolution structure of Table 1 provides those of skill in the art with a detailed insight into the mechanisms of action of hygromycin B. This insight provides a means to design new antibiotics which have the potential to overcome the mechanisms of resistance found in bacteria.

For example, the structure provided herein allows those of skill in the art to determine how hygromycin B binds to the 30S and opens up the possibility of rational drug design in which molecules are developed which retain contacts with the 30S substantially similar to those of hygromycin B, but which differ in structure so as to overcome the resistance mechanisms of the bacterial cell.

20

Accordingly, the invention provides a computer-based method of rational drug design which comprises:

providing the structure of the 30S ribosome as defined by the coordinates of Table 1;

25 providing the structure of a candidate inhibitor molecule;

fitting the structure of candidate to the structure of the 30S to provide a result; and

30 comparing said result with a structure comprising the 30S of Table 1 together with the hygromycin B structure of Table 1.

It will be understood that the phrase "the structure of the



30S ribosome as defined by the coordinates of Table 1" as used above and elsewhere herein is reference to the coordinates defined by atoms 1-51779 of Table 1, including or not including the Thx and molecule X coordinates, optionally in conjunction with any or all of the metal ions defined by Table 1.

The data of Table 1 indicate that there are a number of contacts between hygromycin B and the 16S RNA of the 30S. Thus, in the above aspect of the invention, those of skill in the art may choose to use the data of Table 1 relating to the 16S RNA and hygromycin B in the process of drug design. Accordingly, there is also provided a computer-based method of rational drug design which comprises:

providing the structure of the 16S RNA of the 30S ribosome as defined by the coordinates of Table 1;

providing the structure of a candidate inhibitor molecule;

fitting the structure of candidate to the structure of the 16S RNA of the 30S to provide a result; and

comparing said result with a structure comprising the 16S RNA of the 30S of Table 1 together with the hygromycin B structure of Table 1.

In an alternative aspect, the method of the invention may utilise the coordinates of atoms of interest of the 30S which are in the vicinity of the hygromycin B binding region in order to model the pocket in which the hygromycin B binds. These coordinates may be used to define a space which is then screened "in silico" against a candidate inhibitor molecule. Thus the invention provides a computer-based method of rational drug design which comprises:

providing the coordinates of at least one atom of Table 1



of the 30S ribosome;

providing the structure of a candidate inhibitor molecule;

fitting the structure of candidate to the coordinates of the 30S ribosome provided to obtain a result; and

comparing said result with a structure comprising the coordinates of the 30S ribosome provided and at least one atom from the hygromycin B structure of Table 1.

10 In this embodiment, the at least one atom of the 30S ribosome provided will preferably be within a distance of 50, preferably 10 Angstroms of at least one of the atoms of the hygromycin B molecule described in Table 1.

15 In practice, it will be desirable to model a sufficient number of atoms of the 30S ribosome as defined by the coordinates of Table 1 which represent a binding pocket. Binding pockets and other features of the interaction of hygromycin B with the 30S ribosome are described in the accompanying example. Thus, in  
20 this embodiment of the invention, there will preferably be provided the coordinates of at least 5, preferably at least 10, more preferably at least 50 and even more preferably at least 100 atoms such as at least 500 atoms of the 30S ribosome. Of these atoms provided, at least one will  
25 preferably be within the distance mentioned above of the hygromycin B molecule described in Table 1.

Likewise, when a candidate is fitted to the selected coordinates of the 30S ribosome the comparison with hygromycin  
30 B is preferably made by reference to at least 3, such as at least 5, for example at least 8, more preferably at least 16 of the atoms of the hygromycin B structure provided in Table 1.



In another aspect, the method of the invention may utilise a sub-domain of interest of the 30S which is in the vicinity of a hygromycin B binding region. Thus, the invention provides a computer-based method of rational drug design which comprises:

providing the coordinates of at least a sub-domain of the 30S ribosome;

providing the structure of a candidate inhibitor molecule;

fitting the structure of the candidate to the coordinates of the 30S ribosome sub-domain provided to obtain a result; and

comparing said result with a structure comprising the coordinates of the 30S ribosome of same sub-domain provided and at least one atom from the hygromycin B structure of Table 1.

A sub-domain may be at least one element of secondary structure of the 30S ribosome including one or more (such as 2, 4, 5 or 10) of the 16S RNA hairpin loops H1-H44 and/or one or more of the ribosomal proteins.

A subdomain also includes a space of volume defining a region around any one particular atom of interest (e.g. an atom involved in binding to an antibiotic), the volume being less than the total volume of the tetragonal space of the complete crystal. For example, the coordinates of atoms in a volume of from about 500 to about 15,000 Å<sup>3</sup> may be selected and used for the present invention. Such a space may be a sphere having a diameter of from about 10Å to about 30Å, centred around a point of interest.

An active site of the 30S is any part of this structure



involved in tRNA or mRNA binding, synthesis or translocation, including regions of the complex not directly associated with tRNA or mRNA binding but which are required for the ribosome to function, for example those regions which undergo structural changes associated with protein synthesis or are target sites for regulation by co-factors, phosphorylation or acetylation.

Particular regions of the 30S include those identified herein as antibiotic binding regions based on the data provided in Table 1. Other regions include the three tRNA sites, i.e. the aminoacyl (A), peptidyl (P) and (exit) E sites. Other active sites are those which undergo movement during translocation of tRNAs from the A to P sites and the P to E sites.

Regions further include any one of the subunit proteins S2 to S20, including any of the individually identified subunit proteins in the accompanying examples.

There are a few N- or C-terminal sequences of the S2 to S20 proteins which were not resolved in the structure of Table 1, together with a some of the 5' and 3' residues of the 16S RNA. These are not essential for the purposes of the present invention.

A candidate inhibitor molecule may be any available compound. A number of commercial sources of libraries of compound structures are available.

A candidate inhibitor (including antibiotics and derivatives thereof) of 30S activity can be examined through the use of computer modelling using a docking program such as GRAM, DOCK, or AUTODOCK (see Walters et al., *Drug Discovery Today*, Vol.3,



No.4, (1998), 160-178, and Dunbrack et al., *Folding and Design*, 2, (1997), 27-42) to identify potential inhibitors of 30S. This procedure can include computer fitting of potential inhibitors to 30S to ascertain how well the shape and the chemical structure of the potential inhibitor will bind to the ribosome.

Also computer-assisted, manual examination of the active site structure of 30S may be performed. The use of programs such as GRID (Goodford, *J. Med. Chem.*, 28, (1985), 849-857) - a program that determines probable interaction sites between molecules with various functional groups and the enzyme surface - may also be used to analyse the active site to predict partial structures of inhibiting compounds.

Computer programs can be employed to estimate the attraction, repulsion, and steric hindrance of the two binding partners (e.g. the 30S and a candidate inhibitor). Generally the tighter the fit, the fewer the steric hindrances, and the greater the attractive forces, the more potent the potential modulator since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the design of a candidate inhibitor, the more likely it is that it will not interact with other proteins as well. This will tend to minimise potential side-effects due to unwanted interactions with other proteins.

In another aspect, in place of *in silico* methods, high throughput screening of compounds to select compounds with ribosome binding activity may be undertaken, and those compounds which show ribosome binding activity may be selected as possible candidate inhibitors, and further crystallized with 30S (e.g. by co-crystallization or by soaking) for x-ray



analysis. The resulting x-ray structure may be compared with that of Table 1 for a variety of purposes. For example, where the contacts made by such compounds overlap with those made by hygromycin B, novel molecules comprising residues which contain contacts of both hygromycin B and the other inhibitor may be provided.

Having designed or selected possible binding candidate inhibitors, these can then be screened for activity.

Consequently, the method preferably further comprises the further steps of:

obtaining or synthesising the candidate inhibitor; and  
contacting the candidate inhibitor with 30S to determine the ability of the candidate inhibitor to interact with 30S.

More preferably, in latter step the candidate inhibitor is contacted with 30S under conditions to determine its function, for example in a cell free translation system.

Instead of, or in addition to, performing such an assay, the method may comprise the further steps of:

obtaining or synthesising said candidate inhibitor;  
forming a complex of 30S and said potential inhibitor;  
and

analysing said complex by X-ray crystallography to determine the ability of said candidate inhibitor to interact with 30S. Detailed structural information can then be obtained about the binding of the candidate inhibitor to 30S, and in the light of this information adjustments can be made to the structure or functionality of the potential inhibitor, e.g. to improve binding to the active site. The above steps may be repeated and re-repeated as necessary.



Another aspect of the invention includes a compound which is identified as an inhibitor of 30S by the method of the above aspects of the invention.

5 In another aspect, the invention provides a method of analysing a 30S-ligand complex comprising the step of employing (i) X-ray crystallographic diffraction data from the 30S-ligand complex and (ii) a three-dimensional structure of 30S, or at least one sub-domain thereof, to generate a  
10 difference Fourier electron density map of the complex, the three-dimensional structure being defined by atomic coordinate data according to Table 1.

Therefore, 30S-ligand complexes can be crystallised and  
15 analysed using X-ray diffraction methods, e.g. according to the approach described by Greer et al., *J. of Medicinal Chemistry*, Vol. 37, (1994), 1035-1054, and difference Fourier electron density maps can be calculated based on X-ray  
20 diffraction patterns of soaked or co-crystallised 30S and the solved structure of uncomplexed 30S. These maps can then be used to determine whether and where a particular ligand binds to 30S and/or changes the conformation of 30S.

Electron density maps can be calculated using programs such as  
25 those from the CCP4 computing package (Collaborative Computational Project 4. The CCP4 Suite: Programs for Protein Crystallography, *Acta Crystallographica*, D50, (1994), 760-763.). For map visualisation and model building programs such as "O" (Jones et al., *Acta Crystallography*, A47, (1991), 110-  
30 119) can be used.

The high resolution data provided herein allows those of skill in the art who have obtained structures of worse resolution of



the 30S to refine such structures in the light of the data of Table 1. Thus in a further aspect, the invention provides a method for modelling a structure of a 30S ribosome which comprises providing an atomic model of a structure at a resolution of worse than 3Å (e.g. a resolution of worse than 5 Angstroms, such as 5-12 Å), comparing the structure obtained with the data of Table 1, and refining said model obtained to resolve the structure in order to provide a higher resolution structure. Such a process will be useful for the refinement of a 30S itself, or the 30S in various functional states as part of the 70S ribosome (e.g. bound to mRNA, elongation factors or the like).

Such a method will be useful in providing the structure of the 30S ribosome from other bacterial sources, since the overall secondary and tertiary structure of such ribosomes will be highly conserved in comparison to the *T. thermophilus* structure provided herein. The data provided herein may be used to in a process of modelling the 30S of other species *ab initio* by homology modelling using energy minimization criteria.

In a further aspect, the present invention provides computer readable media with either (a) atomic coordinate data according to Table 1 recorded thereon, said data defining the three-dimensional structure of 30S, at least one atom or at least one sub-domain thereof, or (b) structure factor data for 30S recorded thereon, the structure factor data being derivable from the atomic coordinate data of Table 1.

As used herein, "computer readable media" refers to any media which can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media



such as floppy discs, hard disc storage medium and magnetic tape; optical storage media such as optical discs or CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media.

5

By providing such computer readable media, the atomic coordinate data can be routinely accessed to model 3OS, or at least one atom or a sub-domain thereof. For example, RASMOL is a publicly available computer software package which allows  
10 access and analysis of atomic coordinate data for structure determination and/or rational drug design.

On the other hand, structure factor data, which are derivable from atomic coordinate data (see e.g. Blundell et al., in  
15 *Protein Crystallography*, Academic Press, New York, London and San Francisco, (1976)), are particularly useful for calculating e.g. difference Fourier electron density maps.

In another aspect, the present invention provides systems,  
20 particularly a computer systems, intended to generate structures and/or perform rational drug design for 3OS or 3OS ligand complexes, the systems containing either (a) atomic coordinate data according to Table 1, said data defining the three-dimensional structure of 3OS, at least one atom or at  
25 least one sub-domain thereof, or (b) structure factor data for 3OS, said structure factor data being derivable from the atomic coordinate data of Table 1.

Examples of such systems are microcomputer workstations  
30 available from Silicon Graphics Incorporated and Sun Microsystems running Unix based, Windows NT or IBM OS/2 operating systems.



As used herein, "a computer system" refers to the hardware means, software means and data storage means used to analyse the atomic coordinate data of the present invention. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means and data storage means. Desirably a monitor is provided to visualise structure data. The data storage means may be RAM or means for accessing computer readable media of the invention.

The present high resolution structure of 30S provides a means to address the problems of antibiotic resistance in prokaryotes which are resistant to antibiotics known to act on the 30S, including hygromycin B. Where a mutant strain resistant to the action of this antibiotic arises through mutation of a protein subunit of the 30S or through mutation in the 16S RNA, the sites of mutations can be identified. Where such sites are identified through, for example, primary sequence data, the invention provides a means to model the structure of the mutants.

The invention therefore allows an understanding of the reasons for mutations giving rise to antibiotic resistance and a means to design novel structures which may be useful in overcoming such resistance.

There is thus provided a method which comprises providing the structure of the 30S ribosome of Table 1, changing one amino acid or nucleotide of said structure to provide a mutant 30S, and modelling the structure of the mutant 30S to provide a structure of the mutant. The mutant may be used in the manner described above for the wild type, e.g. stored in computer readable form, modelled to provide ligands, and the like. The



modelling may be based upon the predicted behaviour of the atoms of the changed amino acid based upon its interaction with the surrounding atoms in the model provided herein.

- 5 This process may be iterative, e.g. to produce successive mutations into the 30S structure, for example 2, 3, 4, or 5 to 10 mutations.

Regions of 30S which may be subject to this aspect of the invention include those regions identified in the accompanying examples as regions of the 30S involved in ribosome function or in resistance to antibiotics.

The following example illustrates the invention:

Hygromycin B is a monosubstituted 2-deoxystreptamine-containing aminoglycoside antibiotic originally isolated as a secondary antibiotic substance from *S. hygroscopicus* (5). It is an unusual aminoglycoside antibiotic in that it is active against both prokaryotic and eukaryotic cells and differs in structure from other aminoglycosides (6). The drug works primarily by inhibiting the translocation step of elongation (6-8) and to a lesser extent causes misreading of messenger RNA (1, 8). The antibiotic affects EF-2 (EF-G) mediated translocation of A-site bound tRNA to the P-site in eukaryotes, but does not affect either binding of the factor to the ribosome or the hydrolysis of the bound GTP, a process that has been shown to be separate from translocation (6). The inhibition of translocation is accompanied by an increase in the affinity of the A-site for aminoacylated tRNA (1).

The crystal structure of hygromycin B, or O-6-amino-6-deoxy-L-glycero-D-galacto-heptopyranosylidene-(1→2-3)-O-β-D-



talopyranosyl-(1→5)-2-deoxy-N<sup>3</sup>-methyl-D-streptamine, in complex with the 30S ribosomal subunit was determined at 3.1Å resolution. 30S crystals were prepared as described (2, 3), and soaked post crystallisation in 80µM hygromycin. X-ray diffraction data were collected at beamline ID14-4 at the European Synchrotron Radiation Facility in Grenoble, France. The location of the antibiotic within the 30S subunit was identified from difference Fourier maps calculated after a few rounds of maximum-likelihood based refinement of the native 30S structure (3) against the measured structure factor amplitudes.

Hygromycin B has a single clear binding site within the 30S consistent with the finding that it has a monophasic effect on translation (9). It binds close to the very top of the long, penultimate helix 44 of 16S RNA, in a region that contains the A-, P-, and E-site tRNA binding sites. The antibiotic is in contact only with 16S RNA (not any proteins), and only with helix 44. In fact, it is located in the major groove of the helix, very close to the helical axis, and thus surrounded by residues from both RNA strands in the region 1490-1500 and 1400-1410. Hygromycin B almost exclusively contacts the bases, as opposed to the backbone, of RNA, and would on this basis be expected to be highly sequence-specific. The nearest protein is S12, which is known to be important in decoding, but is more than 14Å away from the hygromycin binding site. Binding of hygromycin B does not seem to induce any significant alterations in the structure of RNA, and appears to be governed by strong base-specific hydrogen-bonds spanning more than three sequential bases in one strand of helix 44. This is possible because the structure of the three-ring antibiotic is unfolded in its binding site within the 30S and thus makes the molecule about 13Å long.



Hygromycin B binds to the 30S in an important functional region which is also the target for other antibiotics such as paromomycin and gentamycin. A crystal structure of the entire 30S in complex with paromomycin has been published (4), and two additional NMR structures based on RNA fragments describe the interaction of both paromomycin and gentamycin with helix 44 (10). Both these antibiotics bind further down helix 44 than does hygromycin and thus affect adenosines A1492 and A1493 which have been implicated as crucial in decoding (4). Interestingly, Ring II of paromomycin, which is also found in other aminoglycoside antibiotics including gentamycin, adopts an almost identical orientation as Ring I of hygromycin, only about 3A further down the helix, or exactly what corresponds to one residue. This indicates that this type of six-ring is an important general means of antibiotic binding, since abolishment of the interaction with RNA (in the case of hygromycin) leads to resistance (11, 12).

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Table 1 - 22/696  
CRYSTAL STRUCTURE (V)

CRYST1	402.063	402.063	175.263	90.00	90.00	90.00	P 41 21 2	1
ORIGX1	1.000000	0.000000	0.000000			0.000000		
ORIGX2	0.000000	1.000000	0.000000			0.000000		
ORIGX3	0.000000	0.000000	1.000000			0.000000		
SCALE1	0.002487	0.000000	0.000000			0.000000		
SCALE2	0.000000	0.002487	0.000000			0.000000		
SCALE3	0.000000	0.000000	0.005706			0.000000		
ATOM	1	O5* U	A	5	133.902	110.817	1.557	1.00 70.62 A16S
ATOM	2	C5* U	A	5	133.994	109.913	2.655	1.00 70.62 A16S
ATOM	3	C4* U	A	5	135.160	110.201	3.593	1.00 70.62 A16S
ATOM	4	O4* U	A	5	135.031	111.541	4.133	1.00 70.62 A16S
ATOM	5	C1* U	A	5	135.770	111.622	5.336	1.00 70.62 A16S
ATOM	6	N1 U	A	5	135.179	112.606	6.263	1.00106.53 A16S
ATOM	7	C6 U	A	5	134.510	113.706	5.779	1.00106.53 A16S
ATOM	8	C2 U	A	5	135.348	112.430	7.635	1.00106.53 A16S
ATOM	9	O2 U	A	5	135.882	111.449	8.127	1.00106.53 A16S
ATOM	10	N3 U	A	5	134.858	113.449	8.412	1.00106.53 A16S
ATOM	11	C4 U	A	5	134.210	114.589	7.980	1.00106.53 A16S
ATOM	12	O4 U	A	5	133.860	115.440	8.803	1.00106.53 A16S
ATOM	13	C5 U	A	5	134.035	114.674	6.567	1.00106.53 A16S
ATOM	14	C2* U	A	5	136.081	110.211	5.833	1.00 70.62 A16S
ATOM	15	O2* U	A	5	137.485	110.125	5.780	1.00 70.62 A16S
ATOM	16	C3* U	A	5	135.326	109.312	4.838	1.00 70.62 A16S
ATOM	17	O3* U	A	5	135.996	108.063	4.475	1.00 70.62 A16S
ATOM	18	P G	A	6	137.126	107.378	5.439	1.00 80.20 A16S
ATOM	19	O1P G	A	6	137.026	105.932	5.110	1.00 76.37 A16S
ATOM	20	O2P G	A	6	137.037	107.807	6.880	1.00 76.37 A16S
ATOM	21	O5* G	A	6	138.524	107.900	4.859	1.00 80.20 A16S
ATOM	22	C5* G	A	6	139.137	107.250	3.725	1.00 80.20 A16S
ATOM	23	C4* G	A	6	140.109	108.173	3.008	1.00 80.20 A16S
ATOM	24	O4* G	A	6	139.411	109.273	2.377	1.00 80.20 A16S
ATOM	25	C1* G	A	6	140.337	110.310	2.132	1.00 80.20 A16S
ATOM	26	N9 G	A	6	139.719	111.609	2.386	1.00 76.37 A16S
ATOM	27	C4 G	A	6	139.535	112.274	3.590	1.00 76.37 A16S
ATOM	28	N3 G	A	6	139.887	111.838	4.817	1.00 76.37 A16S
ATOM	29	C2 G	A	6	139.578	112.716	5.760	1.00 76.37 A16S
ATOM	30	N2 G	A	6	139.831	112.458	7.038	1.00 76.37 A16S
ATOM	31	N1 G	A	6	138.990	113.916	5.523	1.00 76.37 A16S
ATOM	32	C6 G	A	6	138.621	114.389	4.275	1.00 76.37 A16S
ATOM	33	O6 G	A	6	138.090	115.505	4.169	1.00 76.37 A16S
ATOM	34	C5 G	A	6	138.932	113.464	3.253	1.00 76.37 A16S
ATOM	35	N7 G	A	6	138.738	113.550	1.883	1.00 76.37 A16S
ATOM	36	C8 G	A	6	139.212	112.431	1.415	1.00 76.37 A16S
ATOM	37	C2* G	A	6	141.645	109.984	2.854	1.00 80.20 A16S
ATOM	38	O2* G	A	6	142.555	109.524	1.880	1.00 80.20 A16S
ATOM	39	C3* G	A	6	141.228	108.851	3.793	1.00 80.20 A16S
ATOM	40	O3* G	A	6	142.311	107.941	4.010	1.00 80.20 A16S
ATOM	41	P G	A	7	143.740	108.478	4.544	1.00 70.50 A16S
ATOM	42	O1P G	A	7	143.584	109.734	5.326	1.00 69.01 A16S
ATOM	43	O2P G	A	7	144.433	107.315	5.168	1.00 69.01 A16S
ATOM	44	O5* G	A	7	144.498	108.861	3.198	1.00 70.50 A16S
ATOM	45	C5* G	A	7	145.092	107.836	2.383	1.00 70.50 A16S
ATOM	46	C4* G	A	7	146.334	108.357	1.710	1.00 70.50 A16S
ATOM	47	O4* G	A	7	146.073	108.652	0.319	1.00 70.50 A16S
ATOM	48	C1* G	A	7	146.587	109.916	-0.013	1.00 70.50 A16S
ATOM	49	N9 G	A	7	145.639	110.518	-0.933	1.00 69.01 A16S
ATOM	50	C4 G	A	7	145.832	110.762	-2.267	1.00 69.01 A16S
ATOM	51	N3 G	A	7	146.943	110.480	-2.972	1.00 69.01 A16S
ATOM	52	C2 G	A	7	146.819	110.828	-4.243	1.00 69.01 A16S
ATOM	53	N2 G	A	7	147.816	110.589	-5.112	1.00 69.01 A16S
ATOM	54	N1 G	A	7	145.708	111.426	-4.769	1.00 69.01 A16S
ATOM	55	C6 G	A	7	144.552	111.721	-4.064	1.00 69.01 A16S
ATOM	56	O6 G	A	7	143.595	112.250	-4.644	1.00 69.01 A16S
ATOM	57	C5 G	A	7	144.661	111.339	-2.706	1.00 69.01 A16S
ATOM	58	N7 G	A	7	143.745	111.445	-1.668	1.00 69.01 A16S
ATOM	59	C8 G	A	7	144.370	110.948	-0.638	1.00 69.01 A16S
ATOM	60	C2* G	A	7	146.690	110.701	1.287	1.00 70.50 A16S
ATOM	61	O2* G	A	7	147.646	111.722	1.201	1.00 70.50 A16S
ATOM	62	C3* G	A	7	146.938	109.604	2.322	1.00 70.50 A16S
ATOM	63	O3* G	A	7	148.147	109.404	3.083	1.00 70.50 A16S
ATOM	64	P A	A	8	149.553	109.128	2.355	1.00 61.87 A16S
ATOM	65	O1P A	A	8	149.366	109.426	0.912	1.00 80.84 A16S
ATOM	66	O2P A	A	8	150.043	107.783	2.768	1.00 80.84 A16S
ATOM	67	O5* A	A	8	150.543	110.185	3.021	1.00 61.87 A16S
ATOM	68	C5* A	A	8	150.890	111.393	2.347	1.00 61.87 A16S
ATOM	69	C4* A	A	8	152.310	111.773	2.669	1.00 61.87 A16S
ATOM	70	O4* A	A	8	152.405	112.243	4.042	1.00 61.87 A16S



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ATOM	71	C1*	A	A	8	153.440	111.550	4.705	1.00	61.87	A16S
ATOM	72	N9	A	A	8	153.077	111.376	6.107	1.00	80.84	A16S
ATOM	73	C4	A	A	8	153.960	111.393	7.153	1.00	80.84	A16S
ATOM	74	N3	A	A	8	155.288	111.562	7.089	1.00	80.84	A16S
ATOM	75	C2	A	A	8	155.823	111.519	8.310	1.00	80.84	A16S
ATOM	76	N1	A	A	8	155.225	111.340	9.490	1.00	80.84	A16S
ATOM	77	C6	A	A	8	153.887	111.180	9.511	1.00	80.84	A16S
ATOM	78	N6	A	A	8	153.285	111.012	10.684	1.00	80.84	A16S
ATOM	79	C5	A	A	8	153.204	111.203	8.290	1.00	80.84	A16S
ATOM	80	N7	A	A	8	151.864	111.066	7.970	1.00	80.84	A16S
ATOM	81	C8	A	A	8	151.842	111.172	6.664	1.00	80.84	A16S
ATOM	82	C2*	A	A	8	153.614	110.238	3.952	1.00	61.87	A16S
ATOM	83	O2*	A	A	8	154.925	109.761	4.169	1.00	61.87	A16S
ATOM	84	C3*	A	A	8	153.352	110.672	2.513	1.00	61.87	A16S
ATOM	85	O3*	A	A	8	154.544	111.255	2.015	1.00	61.87	A16S
ATOM	86	P	G	A	9	154.834	111.258	0.439	1.00	56.93	A16S
ATOM	87	O1P	G	A	9	154.337	112.570	-0.082	1.00	64.63	A16S
ATOM	88	O2P	G	A	9	154.328	109.993	-0.152	1.00	64.63	A16S
ATOM	89	O5*	G	A	9	156.421	111.214	0.364	1.00	56.93	A16S
ATOM	90	C5*	G	A	9	157.185	112.132	1.126	1.00	56.93	A16S
ATOM	91	C4*	G	A	9	157.921	111.418	2.231	1.00	56.93	A16S
ATOM	92	O4*	G	A	9	157.269	110.172	2.585	1.00	56.93	A16S
ATOM	93	C1*	G	A	9	158.242	109.238	3.035	1.00	56.93	A16S
ATOM	94	N9	G	A	9	158.204	108.057	2.177	1.00	64.63	A16S
ATOM	95	C4	G	A	9	158.941	106.915	2.349	1.00	64.63	A16S
ATOM	96	N3	G	A	9	159.778	106.671	3.367	1.00	64.63	A16S
ATOM	97	C2	G	A	9	160.367	105.504	3.242	1.00	64.63	A16S
ATOM	98	N2	G	A	9	161.224	105.094	4.181	1.00	64.63	A16S
ATOM	99	N1	G	A	9	160.159	104.651	2.189	1.00	64.63	A16S
ATOM	100	C6	G	A	9	159.305	104.893	1.127	1.00	64.63	A16S
ATOM	101	O6	G	A	9	159.201	104.072	0.221	1.00	64.63	A16S
ATOM	102	C5	G	A	9	158.657	106.125	1.259	1.00	64.63	A16S
ATOM	103	N7	G	A	9	157.727	106.738	0.435	1.00	64.63	A16S
ATOM	104	C8	G	A	9	157.477	107.876	1.022	1.00	64.63	A16S
ATOM	105	C2*	G	A	9	159.607	109.915	2.928	1.00	56.93	A16S
ATOM	106	O2*	G	A	9	159.981	110.456	4.176	1.00	56.93	A16S
ATOM	107	C3*	G	A	9	159.328	110.995	1.898	1.00	56.93	A16S
ATOM	108	O3*	G	A	9	160.201	112.083	2.033	1.00	56.93	A16S
ATOM	109	P	A	A	10	161.534	112.108	1.167	1.00	62.39	A16S
ATOM	110	O1P	A	A	10	162.015	113.515	1.126	1.00	68.68	A16S
ATOM	111	O2P	A	A	10	161.231	111.388	-0.106	1.00	68.68	A16S
ATOM	112	O5*	A	A	10	162.525	111.190	2.011	1.00	62.39	A16S
ATOM	113	C5*	A	A	10	162.763	111.438	3.406	1.00	62.39	A16S
ATOM	114	C4*	A	A	10	163.491	110.267	4.039	1.00	62.39	A16S
ATOM	115	O4*	A	A	10	162.643	109.090	4.018	1.00	62.39	A16S
ATOM	116	C1*	A	A	10	163.436	107.936	3.800	1.00	62.39	A16S
ATOM	117	N9	A	A	10	163.040	107.377	2.511	1.00	68.68	A16S
ATOM	118	C4	A	A	10	163.352	106.133	2.028	1.00	68.68	A16S
ATOM	119	N3	A	A	10	164.087	105.187	2.633	1.00	68.68	A16S
ATOM	120	C2	A	A	10	164.155	104.096	1.873	1.00	68.68	A16S
ATOM	121	N1	A	A	10	163.610	103.862	0.667	1.00	68.68	A16S
ATOM	122	C6	A	A	10	162.881	104.841	0.089	1.00	68.68	A16S
ATOM	123	N6	A	A	10	162.339	104.617	-1.109	1.00	68.68	A16S
ATOM	124	C5	A	A	10	162.736	106.045	0.792	1.00	68.68	A16S
ATOM	125	N7	A	A	10	162.061	107.220	0.494	1.00	68.68	A16S
ATOM	126	C8	A	A	10	162.275	107.976	1.540	1.00	68.68	A16S
ATOM	127	C2*	A	A	10	164.902	108.368	3.804	1.00	62.39	A16S
ATOM	128	O2*	A	A	10	165.443	108.233	5.108	1.00	62.39	A16S
ATOM	129	C3*	A	A	10	164.784	109.821	3.371	1.00	62.39	A16S
ATOM	130	O3*	A	A	10	165.892	110.585	3.804	1.00	62.39	A16S
ATOM	131	P	G	A	11	167.161	110.762	2.835	1.00	66.78	A16S
ATOM	132	O1P	G	A	11	168.065	111.717	3.549	1.00	67.88	A16S
ATOM	133	O2P	G	A	11	166.683	111.076	1.460	1.00	67.88	A16S
ATOM	134	O5*	G	A	11	167.848	109.323	2.839	1.00	66.78	A16S
ATOM	135	C5*	G	A	11	168.403	108.798	4.059	1.00	66.78	A16S
ATOM	136	C4*	G	A	11	169.017	107.439	3.833	1.00	66.78	A16S
ATOM	137	O4*	G	A	11	167.979	106.466	3.558	1.00	66.78	A16S
ATOM	138	C1*	G	A	11	168.468	105.495	2.649	1.00	66.78	A16S
ATOM	139	N9	G	A	11	167.683	105.588	1.422	1.00	67.88	A16S
ATOM	140	C4	G	A	11	167.491	104.594	0.492	1.00	67.88	A16S
ATOM	141	N3	G	A	11	167.988	103.339	0.553	1.00	67.88	A16S
ATOM	142	C2	G	A	11	167.615	102.606	-0.493	1.00	67.88	A16S
ATOM	143	N2	G	A	11	168.000	101.319	-0.586	1.00	67.88	A16S
ATOM	144	N1	G	A	11	166.833	103.075	-1.524	1.00	67.88	A16S
ATOM	145	C6	G	A	11	166.320	104.365	-1.615	1.00	67.88	A16S
ATOM	146	O6	G	A	11	165.637	104.691	-2.600	1.00	67.88	A16S
ATOM	147	C5	G	A	11	166.694	105.158	-0.487	1.00	67.88	A16S



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ATOM	148	N7	G	A	11	166.386	106.475	-0.172	1.00	67.88	A16S
ATOM	149	C8	G	A	11	166.995	106.687	0.963	1.00	67.88	A16S
ATOM	150	C2*	G	A	11	169.941	105.816	2.393	1.00	66.78	A16S
ATOM	151	O2*	G	A	11	170.749	105.124	3.324	1.00	66.78	A16S
ATOM	152	C3*	G	A	11	169.971	107.308	2.662	1.00	66.78	A16S
ATOM	153	O3*	G	A	11	171.277	107.760	2.957	1.00	66.78	A16S
ATOM	154	P	U	A	12	172.055	108.663	1.877	1.00	73.15	A16S
ATOM	155	O1P	U	A	12	173.263	109.168	2.563	1.00	65.70	A16S
ATOM	156	O2P	U	A	12	171.115	109.624	1.228	1.00	65.70	A16S
ATOM	157	O5*	U	A	12	172.534	107.614	0.780	1.00	73.15	A16S
ATOM	158	C5*	U	A	12	173.407	106.531	1.144	1.00	73.15	A16S
ATOM	159	C4*	U	A	12	173.445	105.483	0.050	1.00	73.15	A16S
ATOM	160	O4*	U	A	12	172.167	104.789	-0.038	1.00	73.15	A16S
ATOM	161	C1*	U	A	12	171.925	104.403	-1.377	1.00	73.15	A16S
ATOM	162	N1	U	A	12	170.691	105.061	-1.848	1.00	65.70	A16S
ATOM	163	C6	U	A	12	170.363	106.330	-1.453	1.00	65.70	A16S
ATOM	164	C2	U	A	12	169.881	104.375	-2.745	1.00	65.70	A16S
ATOM	165	O2	U	A	12	170.072	103.211	-3.069	1.00	65.70	A16S
ATOM	166	N3	U	A	12	168.826	105.096	-3.247	1.00	65.70	A16S
ATOM	167	C4	U	A	12	168.483	106.390	-2.946	1.00	65.70	A16S
ATOM	168	O4	U	A	12	167.626	106.972	-3.637	1.00	65.70	A16S
ATOM	169	C5	U	A	12	169.318	106.998	-1.953	1.00	65.70	A16S
ATOM	170	C2*	U	A	12	173.160	104.813	-2.190	1.00	73.15	A16S
ATOM	171	O2*	U	A	12	174.084	103.746	-2.184	1.00	73.15	A16S
ATOM	172	C3*	U	A	12	173.715	105.967	-1.365	1.00	73.15	A16S
ATOM	173	O3*	U	A	12	175.107	106.181	-1.607	1.00	73.15	A16S
ATOM	174	P	U	A	13	175.590	107.520	-2.376	1.00	68.45	A16S
ATOM	175	O1P	U	A	13	176.783	108.073	-1.660	1.00	68.37	A16S
ATOM	176	O2P	U	A	13	174.416	108.395	-2.615	1.00	68.37	A16S
ATOM	177	O5*	U	A	13	176.125	107.001	-3.785	1.00	68.45	A16S
ATOM	178	C5*	U	A	13	175.234	106.490	-4.785	1.00	68.45	A16S
ATOM	179	C4*	U	A	13	176.025	105.975	-5.958	1.00	68.45	A16S
ATOM	180	O4*	U	A	13	175.105	105.423	-6.937	1.00	68.45	A16S
ATOM	181	C1*	U	A	13	175.335	106.032	-8.188	1.00	68.45	A16S
ATOM	182	N1	U	A	13	174.070	106.114	-8.931	1.00	68.37	A16S
ATOM	183	C6	U	A	13	173.275	107.228	-8.873	1.00	68.37	A16S
ATOM	184	C2	U	A	13	173.710	105.024	-9.699	1.00	68.37	A16S
ATOM	185	O2	U	A	13	174.386	104.012	-9.771	1.00	68.37	A16S
ATOM	186	N3	U	A	13	172.527	105.156	-10.379	1.00	68.37	A16S
ATOM	187	C4	U	A	13	171.683	106.245	-10.365	1.00	68.37	A16S
ATOM	188	O4	U	A	13	170.636	106.212	-11.010	1.00	68.37	A16S
ATOM	189	C5	U	A	13	172.126	107.329	-9.545	1.00	68.37	A16S
ATOM	190	C2*	U	A	13	175.992	107.376	-7.893	1.00	68.45	A16S
ATOM	191	O2*	U	A	13	176.697	107.827	-9.034	1.00	68.45	A16S
ATOM	192	C3*	U	A	13	176.857	107.033	-6.682	1.00	68.45	A16S
ATOM	193	O3*	U	A	13	178.100	106.478	-7.114	1.00	68.45	A16S
ATOM	194	P	U	A	14	179.470	106.911	-6.386	1.00	63.53	A16S
ATOM	195	O1P	U	A	14	180.568	106.121	-7.010	1.00	75.88	A16S
ATOM	196	O2P	U	A	14	179.248	106.830	-4.910	1.00	75.88	A16S
ATOM	197	O5*	U	A	14	179.685	108.442	-6.782	1.00	63.53	A16S
ATOM	198	C5*	U	A	14	180.216	108.792	-8.061	1.00	63.53	A16S
ATOM	199	C4*	U	A	14	180.254	110.292	-8.234	1.00	63.53	A16S
ATOM	200	O4*	U	A	14	178.917	110.843	-8.122	1.00	63.53	A16S
ATOM	201	C1*	U	A	14	178.983	112.140	-7.553	1.00	63.53	A16S
ATOM	202	N1	U	A	14	178.227	112.134	-6.286	1.00	75.88	A16S
ATOM	203	C6	U	A	14	177.971	110.967	-5.606	1.00	75.88	A16S
ATOM	204	C2	U	A	14	177.788	113.350	-5.790	1.00	75.88	A16S
ATOM	205	O2	U	A	14	177.981	114.412	-6.366	1.00	75.88	A16S
ATOM	206	N3	U	A	14	177.114	113.278	-4.595	1.00	75.88	A16S
ATOM	207	C4	U	A	14	176.831	112.144	-3.868	1.00	75.88	A16S
ATOM	208	O4	U	A	14	176.217	112.241	-2.801	1.00	75.88	A16S
ATOM	209	C5	U	A	14	177.306	110.933	-4.451	1.00	75.88	A16S
ATOM	210	C2*	U	A	14	180.463	112.474	-7.341	1.00	63.53	A16S
ATOM	211	O2*	U	A	14	180.968	113.184	-8.457	1.00	63.53	A16S
ATOM	212	C3*	U	A	14	181.081	111.087	-7.240	1.00	63.53	A16S
ATOM	213	O3*	U	A	14	182.456	111.118	-7.595	1.00	63.53	A16S
ATOM	214	P	G	A	15	183.568	110.912	-6.455	1.00	61.76	A16S
ATOM	215	O1P	G	A	15	184.883	110.693	-7.122	1.00	60.35	A16S
ATOM	216	O2P	G	A	15	183.047	109.882	-5.491	1.00	60.35	A16S
ATOM	217	O5*	G	A	15	183.642	112.328	-5.728	1.00	61.76	A16S
ATOM	218	C5*	G	A	15	184.402	112.499	-4.507	1.00	61.76	A16S
ATOM	219	C4*	G	A	15	184.308	113.931	-4.035	1.00	61.76	A16S
ATOM	220	O4*	G	A	15	185.082	114.796	-4.903	1.00	61.76	A16S
ATOM	221	C1*	G	A	15	184.364	115.985	-5.172	1.00	61.76	A16S
ATOM	222	N9	G	A	15	184.037	115.970	-6.591	1.00	60.35	A16S
ATOM	223	C4	G	A	15	183.563	117.005	-7.358	1.00	60.35	A16S
ATOM	224	N3	G	A	15	183.282	118.248	-6.928	1.00	60.35	A16S



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ATOM	225	C2	G	A	15	182.833	119.018	-7.912	1.00	60.35	A16S
ATOM	226	N2	G	A	15	182.487	120.299	-7.657	1.00	60.35	A16S
ATOM	227	N1	G	A	15	182.684	118.593	-9.215	1.00	60.35	A16S
ATOM	228	C6	G	A	15	182.967	117.312	-9.671	1.00	60.35	A16S
ATOM	229	O6	G	A	15	182.789	117.018	-10.862	1.00	60.35	A16S
ATOM	230	C5	G	A	15	183.439	116.486	-8.631	1.00	60.35	A16S
ATOM	231	N7	G	A	15	183.815	115.154	-8.659	1.00	60.35	A16S
ATOM	232	C8	G	A	15	184.158	114.892	-7.431	1.00	60.35	A16S
ATOM	233	C2*	G	A	15	183.137	115.980	-4.266	1.00	61.76	A16S
ATOM	234	O2*	G	A	15	183.500	116.590	-3.054	1.00	61.76	A16S
ATOM	235	C3*	G	A	15	182.901	114.489	-4.078	1.00	61.76	A16S
ATOM	236	O3*	G	A	15	182.188	114.155	-2.895	1.00	61.76	A16S
ATOM	237	P	A	A	16	180.645	113.705	-3.002	1.00	62.88	A16S
ATOM	238	O1P	A	A	16	180.208	113.427	-1.606	1.00	68.24	A16S
ATOM	239	O2P	A	A	16	180.504	112.629	-4.032	1.00	68.24	A16S
ATOM	240	O5*	A	A	16	179.918	115.043	-3.491	1.00	62.88	A16S
ATOM	241	C5*	A	A	16	179.847	116.170	-2.601	1.00	62.88	A16S
ATOM	242	C4*	A	A	16	179.374	117.410	-3.317	1.00	62.88	A16S
ATOM	243	O4*	A	A	16	180.319	117.782	-4.347	1.00	62.88	A16S
ATOM	244	C1*	A	A	16	179.632	118.421	-5.413	1.00	62.88	A16S
ATOM	245	N9	A	A	16	179.810	117.616	-6.620	1.00	68.24	A16S
ATOM	246	C4	A	A	16	179.399	117.962	-7.881	1.00	68.24	A16S
ATOM	247	N3	A	A	16	178.798	119.101	-8.255	1.00	68.24	A16S
ATOM	248	C2	A	A	16	178.510	119.070	-9.545	1.00	68.24	A16S
ATOM	249	N1	A	A	16	178.743	118.107	-10.439	1.00	68.24	A16S
ATOM	250	C6	A	A	16	179.358	116.983	-10.031	1.00	68.24	A16S
ATOM	251	N6	A	A	16	179.611	116.032	-10.929	1.00	68.24	A16S
ATOM	252	C5	A	A	16	179.704	116.886	-8.685	1.00	68.24	A16S
ATOM	253	N7	A	A	16	180.316	115.883	-7.950	1.00	68.24	A16S
ATOM	254	C8	A	A	16	180.366	116.368	-6.736	1.00	68.24	A16S
ATOM	255	C2*	A	A	16	178.148	118.481	-5.038	1.00	62.88	A16S
ATOM	256	O2*	A	A	16	177.824	119.740	-4.488	1.00	62.88	A16S
ATOM	257	C3*	A	A	16	178.036	117.349	-4.029	1.00	62.88	A16S
ATOM	258	O3*	A	A	16	176.954	117.577	-3.149	1.00	62.88	A16S
ATOM	259	P	U	A	17	175.522	116.937	-3.477	1.00	62.17	A16S
ATOM	260	O1P	U	A	17	174.576	117.421	-2.424	1.00	64.66	A16S
ATOM	261	O2P	U	A	17	175.697	115.463	-3.686	1.00	64.66	A16S
ATOM	262	O5*	U	A	17	175.126	117.623	-4.857	1.00	62.17	A16S
ATOM	263	C5*	U	A	17	175.002	119.033	-4.943	1.00	62.17	A16S
ATOM	264	C4*	U	A	17	174.342	119.416	-6.233	1.00	62.17	A16S
ATOM	265	O4*	U	A	17	175.272	119.311	-7.340	1.00	62.17	A16S
ATOM	266	C1*	U	A	17	174.552	119.002	-8.523	1.00	62.17	A16S
ATOM	267	N1	U	A	17	175.053	117.739	-9.089	1.00	64.66	A16S
ATOM	268	C6	U	A	17	175.808	116.862	-8.351	1.00	64.66	A16S
ATOM	269	C2	U	A	17	174.733	117.457	-10.405	1.00	64.66	A16S
ATOM	270	O2	U	A	17	174.064	118.200	-11.093	1.00	64.66	A16S
ATOM	271	N3	U	A	17	175.221	116.269	-10.884	1.00	64.66	A16S
ATOM	272	C4	U	A	17	175.969	115.347	-10.197	1.00	64.66	A16S
ATOM	273	O4	U	A	17	176.240	114.273	-10.729	1.00	64.66	A16S
ATOM	274	C5	U	A	17	176.266	115.708	-8.848	1.00	64.66	A16S
ATOM	275	C2*	U	A	17	173.072	118.916	-8.156	1.00	62.17	A16S
ATOM	276	O2*	U	A	17	172.507	120.185	-8.401	1.00	62.17	A16S
ATOM	277	C3*	U	A	17	173.136	118.599	-6.667	1.00	62.17	A16S
ATOM	278	O3*	U	A	17	171.949	118.992	-5.984	1.00	62.17	A16S
ATOM	279	P	C	A	18	170.710	117.964	-5.868	1.00	58.81	A16S
ATOM	280	O1P	C	A	18	169.727	118.620	-4.975	1.00	54.51	A16S
ATOM	281	O2P	C	A	18	171.170	116.583	-5.559	1.00	54.51	A16S
ATOM	282	O5*	C	A	18	170.087	117.959	-7.324	1.00	58.81	A16S
ATOM	283	C5*	C	A	18	169.427	119.113	-7.812	1.00	58.81	A16S
ATOM	284	C4*	C	A	18	169.041	118.914	-9.245	1.00	58.81	A16S
ATOM	285	O4*	C	A	18	170.233	118.864	-10.069	1.00	58.81	A16S
ATOM	286	C1*	C	A	18	170.046	117.941	-11.127	1.00	58.81	A16S
ATOM	287	N1	C	A	18	170.970	116.813	-10.905	1.00	54.51	A16S
ATOM	288	C6	C	A	18	171.343	116.467	-9.636	1.00	54.51	A16S
ATOM	289	C2	C	A	18	171.439	116.073	-12.009	1.00	54.51	A16S
ATOM	290	O2	C	A	18	171.156	116.454	-13.157	1.00	54.51	A16S
ATOM	291	N3	C	A	18	172.205	114.976	-11.789	1.00	54.51	A16S
ATOM	292	C4	C	A	18	172.537	114.637	-10.538	1.00	54.51	A16S
ATOM	293	N4	C	A	18	173.286	113.546	-10.352	1.00	54.51	A16S
ATOM	294	C5	C	A	18	172.114	115.402	-9.410	1.00	54.51	A16S
ATOM	295	C2*	C	A	18	168.590	117.470	-11.046	1.00	58.81	A16S
ATOM	296	O2*	C	A	18	167.749	118.330	-11.806	1.00	58.81	A16S
ATOM	297	C3*	C	A	18	168.321	117.616	-9.557	1.00	58.81	A16S
ATOM	298	O3*	C	A	18	166.946	117.667	-9.244	1.00	58.81	A16S
ATOM	299	P	C	A	19	166.177	116.317	-8.837	1.00	63.77	A16S
ATOM	300	O1P	C	A	19	164.783	116.754	-8.533	1.00	59.64	A16S
ATOM	301	O2P	C	A	19	166.958	115.557	-7.819	1.00	59.64	A16S



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ATOM	302	O5*	C	A	19	166.160	115.470	-10.187	1.00	63.77	A16S
ATOM	303	C5*	C	A	19	165.470	115.969	-11.339	1.00	63.77	A16S
ATOM	304	C4*	C	A	19	165.755	115.118	-12.556	1.00	63.77	A16S
ATOM	305	O4*	C	A	19	167.173	115.118	-12.861	1.00	63.77	A16S
ATOM	306	C1*	C	A	19	167.512	113.922	-13.533	1.00	63.77	A16S
ATOM	307	N1	C	A	19	168.530	113.208	-12.740	1.00	59.64	A16S
ATOM	308	C6	C	A	19	168.710	113.475	-11.413	1.00	59.64	A16S
ATOM	309	C2	C	A	19	169.312	112.235	-13.371	1.00	59.64	A16S
ATOM	310	O2	C	A	19	169.144	112.023	-14.573	1.00	59.64	A16S
ATOM	311	N3	C	A	19	170.229	111.554	-12.657	1.00	59.64	A16S
ATOM	312	C4	C	A	19	170.383	111.811	-11.362	1.00	59.64	A16S
ATOM	313	N4	C	A	19	171.284	111.100	-10.694	1.00	59.64	A16S
ATOM	314	C5	C	A	19	169.616	112.805	-10.694	1.00	59.64	A16S
ATOM	315	C2*	C	A	19	166.224	113.115	-13.692	1.00	63.77	A16S
ATOM	316	O2*	C	A	19	165.625	113.460	-14.932	1.00	63.77	A16S
ATOM	317	C3*	C	A	19	165.388	113.647	-12.539	1.00	63.77	A16S
ATOM	318	O3*	C	A	19	164.018	113.451	-12.818	1.00	63.77	A16S
ATOM	319	P	U	A	20	163.315	112.092	-12.355	1.00	51.29	A16S
ATOM	320	O1P	U	A	20	161.891	112.136	-12.770	1.00	60.82	A16S
ATOM	321	O2P	U	A	20	163.672	111.894	-10.922	1.00	60.82	A16S
ATOM	322	O5*	U	A	20	164.068	110.966	-13.191	1.00	51.29	A16S
ATOM	323	C5*	U	A	20	163.901	110.865	-14.613	1.00	51.29	A16S
ATOM	324	C4*	U	A	20	164.675	109.683	-15.144	1.00	51.29	A16S
ATOM	325	O4*	U	A	20	166.089	109.925	-14.982	1.00	51.29	A16S
ATOM	326	C1*	U	A	20	166.740	108.716	-14.656	1.00	51.29	A16S
ATOM	327	N1	U	A	20	167.349	108.879	-13.337	1.00	60.82	A16S
ATOM	328	C6	U	A	20	166.948	109.878	-12.492	1.00	60.82	A16S
ATOM	329	C2	U	A	20	168.331	107.997	-12.983	1.00	60.82	A16S
ATOM	330	O2	U	A	20	168.709	107.106	-13.718	1.00	60.82	A16S
ATOM	331	N3	U	A	20	168.859	108.198	-11.735	1.00	60.82	A16S
ATOM	332	C4	U	A	20	168.505	109.186	-10.838	1.00	60.82	A16S
ATOM	333	O4	U	A	20	169.094	109.271	-9.765	1.00	60.82	A16S
ATOM	334	C5	U	A	20	167.479	110.059	-11.290	1.00	60.82	A16S
ATOM	335	C2*	U	A	20	165.709	107.592	-14.674	1.00	51.29	A16S
ATOM	336	O2*	U	A	20	165.799	106.955	-15.933	1.00	51.29	A16S
ATOM	337	C3*	U	A	20	164.413	108.361	-14.443	1.00	51.29	A16S
ATOM	338	O3*	U	A	20	163.287	107.726	-15.033	1.00	51.29	A16S
ATOM	339	P	G	A	21	162.385	106.733	-14.160	1.00	56.12	A16S
ATOM	340	O1P	G	A	21	161.464	106.055	-15.106	1.00	80.29	A16S
ATOM	341	O2P	G	A	21	161.826	107.485	-13.014	1.00	80.29	A16S
ATOM	342	O5*	G	A	21	163.446	105.677	-13.613	1.00	56.12	A16S
ATOM	343	C5*	G	A	21	164.102	104.784	-14.518	1.00	56.12	A16S
ATOM	344	C4*	G	A	21	165.067	103.879	-13.786	1.00	56.12	A16S
ATOM	345	O4*	G	A	21	166.266	104.599	-13.390	1.00	56.12	A16S
ATOM	346	C1*	G	A	21	166.770	104.052	-12.183	1.00	56.12	A16S
ATOM	347	N9	G	A	21	166.729	105.105	-11.175	1.00	80.29	A16S
ATOM	348	C4	G	A	21	167.508	105.227	-10.042	1.00	80.29	A16S
ATOM	349	N3	G	A	21	168.499	104.400	-9.660	1.00	80.29	A16S
ATOM	350	C2	G	A	21	169.067	104.801	-8.523	1.00	80.29	A16S
ATOM	351	N2	G	A	21	170.103	104.128	-8.005	1.00	80.29	A16S
ATOM	352	N1	G	A	21	168.674	105.899	-7.808	1.00	80.29	A16S
ATOM	353	C6	G	A	21	167.647	106.756	-8.170	1.00	80.29	A16S
ATOM	354	O6	G	A	21	167.356	107.715	-7.434	1.00	80.29	A16S
ATOM	355	C5	G	A	21	167.049	106.361	-9.407	1.00	80.29	A16S
ATOM	356	N7	G	A	21	166.026	106.951	-10.134	1.00	80.29	A16S
ATOM	357	C8	G	A	21	165.872	106.175	-11.170	1.00	80.29	A16S
ATOM	358	C2*	G	A	21	165.885	102.848	-11.824	1.00	56.12	A16S
ATOM	359	O2*	G	A	21	166.472	101.680	-12.370	1.00	56.12	A16S
ATOM	360	C3*	G	A	21	164.570	103.187	-12.526	1.00	56.12	A16S
ATOM	361	O3*	G	A	21	163.809	102.018	-12.872	1.00	56.12	A16S
ATOM	362	P	G	A	22	162.774	101.362	-11.811	1.00	70.71	A16S
ATOM	363	O1P	G	A	22	161.831	100.476	-12.574	1.00	62.33	A16S
ATOM	364	O2P	G	A	22	162.222	102.416	-10.915	1.00	62.33	A16S
ATOM	365	O5*	G	A	22	163.702	100.412	-10.936	1.00	70.71	A16S
ATOM	366	C5*	G	A	22	164.323	99.278	-11.538	1.00	70.71	A16S
ATOM	367	C4*	G	A	22	165.425	98.745	-10.660	1.00	70.71	A16S
ATOM	368	O4*	G	A	22	166.501	99.707	-10.555	1.00	70.71	A16S
ATOM	369	C1*	G	A	22	167.144	99.546	-9.308	1.00	70.71	A16S
ATOM	370	N9	G	A	22	167.022	100.784	-8.554	1.00	62.33	A16S
ATOM	371	C4	G	A	22	167.916	101.234	-7.634	1.00	62.33	A16S
ATOM	372	N3	G	A	22	169.072	100.637	-7.314	1.00	62.33	A16S
ATOM	373	C2	G	A	22	169.721	101.300	-6.395	1.00	62.33	A16S
ATOM	374	N2	G	A	22	170.908	100.870	-5.989	1.00	62.33	A16S
ATOM	375	N1	G	A	22	169.264	102.440	-5.811	1.00	62.33	A16S
ATOM	376	C6	G	A	22	168.075	103.071	-6.125	1.00	62.33	A16S
ATOM	377	O6	G	A	22	167.757	104.103	-5.539	1.00	62.33	A16S
ATOM	378	C5	G	A	22	167.377	102.387	-7.130	1.00	62.33	A16S



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ATOM	379	N7	G	A	22	166.171	102.679	-7.746	1.00	62.33	A16S
ATOM	380	C8	G	A	22	166.000	101.699	-8.587	1.00	62.33	A16S
ATOM	381	C2*	G	A	22	166.451	98.409	-8.560	1.00	70.71	A16S
ATOM	382	O2*	G	A	22	167.163	97.208	-8.795	1.00	70.71	A16S
ATOM	383	C3*	G	A	22	165.080	98.405	-9.219	1.00	70.71	A16S
ATOM	384	O3*	G	A	22	164.475	97.127	-9.128	1.00	70.71	A16S
ATOM	385	P	C	A	23	163.667	96.720	-7.803	1.00	53.44	A16S
ATOM	386	O1P	C	A	23	163.255	95.307	-8.046	1.00	62.54	A16S
ATOM	387	O2P	C	A	23	162.633	97.755	-7.512	1.00	62.54	A16S
ATOM	388	O5*	C	A	23	164.758	96.745	-6.643	1.00	53.44	A16S
ATOM	389	C5*	C	A	23	165.846	95.824	-6.677	1.00	53.44	A16S
ATOM	390	C4*	C	A	23	166.799	96.098	-5.555	1.00	53.44	A16S
ATOM	391	O4*	C	A	23	167.416	97.392	-5.735	1.00	53.44	A16S
ATOM	392	C1*	C	A	23	167.605	98.014	-4.477	1.00	53.44	A16S
ATOM	393	N1	C	A	23	166.823	99.269	-4.473	1.00	62.54	A16S
ATOM	394	C6	C	A	23	165.645	99.350	-5.154	1.00	62.54	A16S
ATOM	395	C2	C	A	23	167.304	100.380	-3.765	1.00	62.54	A16S
ATOM	396	O2	C	A	23	168.376	100.291	-3.150	1.00	62.54	A16S
ATOM	397	N3	C	A	23	166.590	101.525	-3.771	1.00	62.54	A16S
ATOM	398	C4	C	A	23	165.443	101.591	-4.444	1.00	62.54	A16S
ATOM	399	N4	C	A	23	164.768	102.753	-4.433	1.00	62.54	A16S
ATOM	400	C5	C	A	23	164.931	100.478	-5.165	1.00	62.54	A16S
ATOM	401	C2*	C	A	23	167.167	97.005	-3.415	1.00	53.44	A16S
ATOM	402	O2*	C	A	23	168.272	96.202	-3.060	1.00	53.44	A16S
ATOM	403	C3*	C	A	23	166.165	96.173	-4.189	1.00	53.44	A16S
ATOM	404	O3*	C	A	23	165.988	94.889	-3.645	1.00	53.44	A16S
ATOM	405	P	U	A	24	164.698	94.603	-2.743	1.00	60.90	A16S
ATOM	406	O1P	U	A	24	164.674	93.151	-2.400	1.00	67.20	A16S
ATOM	407	O2P	U	A	24	163.519	95.221	-3.422	1.00	67.20	A16S
ATOM	408	O5*	U	A	24	165.036	95.422	-1.426	1.00	60.90	A16S
ATOM	409	C5*	U	A	24	166.216	95.115	-0.690	1.00	60.90	A16S
ATOM	410	C4*	U	A	24	166.468	96.164	0.358	1.00	60.90	A16S
ATOM	411	O4*	U	A	24	166.814	97.420	-0.279	1.00	60.90	A16S
ATOM	412	C1*	U	A	24	166.373	98.502	0.527	1.00	60.90	A16S
ATOM	413	N1	U	A	24	165.424	99.317	-0.248	1.00	67.20	A16S
ATOM	414	C6	U	A	24	164.950	98.908	-1.469	1.00	67.20	A16S
ATOM	415	C2	U	A	24	164.997	100.507	0.322	1.00	67.20	A16S
ATOM	416	O2	U	A	24	165.420	100.911	1.395	1.00	67.20	A16S
ATOM	417	N3	U	A	24	164.053	101.197	-0.402	1.00	67.20	A16S
ATOM	418	C4	U	A	24	163.504	100.821	-1.615	1.00	67.20	A16S
ATOM	419	O4	U	A	24	162.572	101.474	-2.089	1.00	67.20	A16S
ATOM	420	C5	U	A	24	164.028	99.596	-2.152	1.00	67.20	A16S
ATOM	421	C2*	U	A	24	165.700	97.901	1.764	1.00	60.90	A16S
ATOM	422	O2*	U	A	24	166.626	97.830	2.826	1.00	60.90	A16S
ATOM	423	C3*	U	A	24	165.299	96.528	1.250	1.00	60.90	A16S
ATOM	424	O3*	U	A	24	165.046	95.594	2.274	1.00	60.90	A16S
ATOM	425	P	C	A	25	163.523	95.299	2.690	1.00	70.02	A16S
ATOM	426	O1P	C	A	25	163.503	93.958	3.338	1.00	53.08	A16S
ATOM	427	O2P	C	A	25	162.620	95.569	1.540	1.00	53.08	A16S
ATOM	428	O5*	C	A	25	163.241	96.417	3.785	1.00	70.02	A16S
ATOM	429	C5*	C	A	25	164.140	96.571	4.887	1.00	70.02	A16S
ATOM	430	C4*	C	A	25	163.922	97.892	5.576	1.00	70.02	A16S
ATOM	431	O4*	C	A	25	164.269	98.986	4.688	1.00	70.02	A16S
ATOM	432	C1*	C	A	25	163.437	100.097	4.963	1.00	70.02	A16S
ATOM	433	N1	C	A	25	162.668	100.420	3.748	1.00	53.08	A16S
ATOM	434	C6	C	A	25	162.455	99.478	2.784	1.00	53.08	A16S
ATOM	435	C2	C	A	25	162.142	101.719	3.598	1.00	53.08	A16S
ATOM	436	O2	C	A	25	162.358	102.577	4.494	1.00	53.08	A16S
ATOM	437	N3	C	A	25	161.418	102.006	2.487	1.00	53.08	A16S
ATOM	438	C4	C	A	25	161.219	101.069	1.560	1.00	53.08	A16S
ATOM	439	N4	C	A	25	160.505	101.391	0.486	1.00	53.08	A16S
ATOM	440	C5	C	A	25	161.744	99.758	1.691	1.00	53.08	A16S
ATOM	441	C2*	C	A	25	162.525	99.715	6.132	1.00	70.02	A16S
ATOM	442	O2*	C	A	25	163.100	100.192	7.338	1.00	70.02	A16S
ATOM	443	C3*	C	A	25	162.504	98.195	6.016	1.00	70.02	A16S
ATOM	444	O3*	C	A	25	162.171	97.533	7.224	1.00	70.02	A16S
ATOM	445	P	A	A	26	160.666	97.016	7.451	1.00	69.78	A16S
ATOM	446	O1P	A	A	26	160.688	95.953	8.483	1.00	61.41	A16S
ATOM	447	O2P	A	A	26	160.042	96.734	6.136	1.00	61.41	A16S
ATOM	448	O5*	A	A	26	159.954	98.287	8.082	1.00	69.78	A16S
ATOM	449	C5*	A	A	26	160.453	98.857	9.304	1.00	69.78	A16S
ATOM	450	C4*	A	A	26	159.884	100.240	9.522	1.00	69.78	A16S
ATOM	451	O4*	A	A	26	160.308	101.101	8.442	1.00	69.78	A16S
ATOM	452	C1*	A	A	26	159.305	102.048	8.176	1.00	69.78	A16S
ATOM	453	N9	A	A	26	158.895	101.899	6.793	1.00	61.41	A16S
ATOM	454	C4	A	A	26	158.472	102.927	6.000	1.00	61.41	A16S
ATOM	455	N3	A	A	26	158.385	104.219	6.338	1.00	61.41	A16S



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ATOM	456	C2	A	A	26	157.919	104.931	5.322	1.00	61.41	A16S
ATOM	457	N1	A	A	26	157.552	104.529	4.103	1.00	61.41	A16S
ATOM	458	C6	A	A	26	157.644	103.219	3.803	1.00	61.41	A16S
ATOM	459	N6	A	A	26	157.251	102.814	2.596	1.00	61.41	A16S
ATOM	460	C5	A	A	26	158.139	102.359	4.790	1.00	61.41	A16S
ATOM	461	N7	A	A	26	158.371	100.990	4.812	1.00	61.41	A16S
ATOM	462	C8	A	A	26	158.822	100.769	6.021	1.00	61.41	A16S
ATOM	463	C2*	A	A	26	158.150	101.814	9.144	1.00	69.78	A16S
ATOM	464	O2*	A	A	26	158.336	102.734	10.191	1.00	69.78	A16S
ATOM	465	C3*	A	A	26	158.367	100.361	9.558	1.00	69.78	A16S
ATOM	466	O3*	A	A	26	157.872	100.078	10.875	1.00	69.78	A16S
ATOM	467	P	G	A	27	156.902	98.812	11.112	1.00	67.67	A16S
ATOM	468	O1P	G	A	27	156.634	98.681	12.563	1.00	68.00	A16S
ATOM	469	O2P	G	A	27	157.451	97.643	10.375	1.00	68.00	A16S
ATOM	470	O5*	G	A	27	155.541	99.255	10.412	1.00	67.67	A16S
ATOM	471	C5*	G	A	27	154.897	100.501	10.760	1.00	67.67	A16S
ATOM	472	C4*	G	A	27	153.585	100.637	10.020	1.00	67.67	A16S
ATOM	473	O4*	G	A	27	153.850	100.761	8.597	1.00	67.67	A16S
ATOM	474	C1*	G	A	27	152.875	100.035	7.861	1.00	67.67	A16S
ATOM	475	N9	G	A	27	153.542	98.918	7.186	1.00	68.00	A16S
ATOM	476	C4	G	A	27	153.014	98.129	6.191	1.00	68.00	A16S
ATOM	477	N3	G	A	27	151.788	98.257	5.645	1.00	68.00	A16S
ATOM	478	C2	G	A	27	151.540	97.308	4.751	1.00	68.00	A16S
ATOM	479	N2	G	A	27	150.338	97.262	4.144	1.00	68.00	A16S
ATOM	480	N1	G	A	27	152.443	96.330	4.399	1.00	68.00	A16S
ATOM	481	C6	G	A	27	153.713	96.184	4.948	1.00	68.00	A16S
ATOM	482	O6	G	A	27	154.441	95.258	4.579	1.00	68.00	A16S
ATOM	483	C5	G	A	27	153.982	97.184	5.919	1.00	68.00	A16S
ATOM	484	N7	G	A	27	155.102	97.387	6.708	1.00	68.00	A16S
ATOM	485	C8	G	A	27	154.802	98.427	7.437	1.00	68.00	A16S
ATOM	486	C2*	G	A	27	151.836	99.527	8.861	1.00	67.67	A16S
ATOM	487	O2*	G	A	27	150.764	100.442	8.972	1.00	67.67	A16S
ATOM	488	C3*	G	A	27	152.666	99.432	10.129	1.00	67.67	A16S
ATOM	489	O3*	G	A	27	151.881	99.432	11.302	1.00	67.67	A16S
ATOM	490	P	G	A	28	151.546	98.036	12.025	1.00	67.72	A16S
ATOM	491	O1P	G	A	28	150.939	98.419	13.312	1.00	69.08	A16S
ATOM	492	O2P	G	A	28	152.725	97.137	12.014	1.00	69.08	A16S
ATOM	493	O5*	G	A	28	150.431	97.370	11.110	1.00	67.72	A16S
ATOM	494	C5*	G	A	28	149.242	98.092	10.786	1.00	67.72	A16S
ATOM	495	C4*	G	A	28	148.469	97.380	9.706	1.00	67.72	A16S
ATOM	496	O4*	G	A	28	149.170	97.470	8.436	1.00	67.72	A16S
ATOM	497	C1*	G	A	28	148.922	96.298	7.670	1.00	67.72	A16S
ATOM	498	N9	G	A	28	150.180	95.579	7.494	1.00	69.08	A16S
ATOM	499	C4	G	A	28	150.404	94.518	6.639	1.00	69.08	A16S
ATOM	500	N3	G	A	28	149.503	93.976	5.791	1.00	69.08	A16S
ATOM	501	C2	G	A	28	150.015	92.965	5.113	1.00	69.08	A16S
ATOM	502	N2	G	A	28	149.259	92.316	4.228	1.00	69.08	A16S
ATOM	503	N1	G	A	28	151.307	92.522	5.252	1.00	69.08	A16S
ATOM	504	C6	G	A	28	152.252	93.072	6.111	1.00	69.08	A16S
ATOM	505	O6	G	A	28	153.394	92.613	6.150	1.00	69.08	A16S
ATOM	506	C5	G	A	28	151.719	94.149	6.849	1.00	69.08	A16S
ATOM	507	N7	G	A	28	152.315	94.964	7.806	1.00	69.08	A16S
ATOM	508	C8	G	A	28	151.369	95.798	8.156	1.00	69.08	A16S
ATOM	509	C2*	G	A	28	147.951	95.442	8.474	1.00	67.72	A16S
ATOM	510	O2*	G	A	28	146.628	95.779	8.114	1.00	67.72	A16S
ATOM	511	C3*	G	A	28	148.266	95.890	9.887	1.00	67.72	A16S
ATOM	512	O3*	G	A	28	147.237	95.555	10.782	1.00	67.72	A16S
ATOM	513	P	G	A	29	147.417	94.258	11.707	1.00	72.56	A16S
ATOM	514	O1P	G	A	29	146.289	94.250	12.687	1.00	71.51	A16S
ATOM	515	O2P	G	A	29	148.839	94.266	12.194	1.00	71.51	A16S
ATOM	516	O5*	G	A	29	147.218	93.035	10.707	1.00	72.56	A16S
ATOM	517	C5*	G	A	29	146.015	92.926	9.952	1.00	72.56	A16S
ATOM	518	C4*	G	A	29	146.133	91.829	8.935	1.00	72.56	A16S
ATOM	519	O4*	G	A	29	147.203	92.125	8.009	1.00	72.56	A16S
ATOM	520	C1*	G	A	29	147.731	90.917	7.494	1.00	72.56	A16S
ATOM	521	N9	G	A	29	149.171	90.853	7.736	1.00	71.51	A16S
ATOM	522	C4	G	A	29	150.030	89.959	7.149	1.00	71.51	A16S
ATOM	523	N3	G	A	29	149.696	89.044	6.218	1.00	71.51	A16S
ATOM	524	C2	G	A	29	150.729	88.309	5.852	1.00	71.51	A16S
ATOM	525	N2	G	A	29	150.565	87.376	4.909	1.00	71.51	A16S
ATOM	526	N1	G	A	29	151.994	88.441	6.378	1.00	71.51	A16S
ATOM	527	C6	G	A	29	152.363	89.369	7.347	1.00	71.51	A16S
ATOM	528	O6	G	A	29	153.529	89.387	7.775	1.00	71.51	A16S
ATOM	529	C5	G	A	29	151.260	90.194	7.726	1.00	71.51	A16S
ATOM	530	N7	G	A	29	151.187	91.251	8.622	1.00	71.51	A16S
ATOM	531	C8	G	A	29	149.931	91.613	8.593	1.00	71.51	A16S
ATOM	532	C2*	G	A	29	146.998	89.771	8.182	1.00	72.56	A16S



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ATOM	533	O2*	G	A	29	145.936	89.368	7.344	1.00	72.56	A16S
ATOM	534	C3*	G	A	29	146.477	90.444	9.442	1.00	72.56	A16S
ATOM	535	O3*	G	A	29	145.327	89.777	9.913	1.00	72.56	A16S
ATOM	536	P	U	A	30	145.485	88.466	10.821	1.00	80.85	A16S
ATOM	537	O1P	U	A	30	144.093	88.043	11.100	1.00	64.32	A16S
ATOM	538	O2P	U	A	30	146.418	88.767	11.955	1.00	64.32	A16S
ATOM	539	O5*	U	A	30	146.186	87.392	9.867	1.00	80.85	A16S
ATOM	540	C5*	U	A	30	145.453	86.655	8.849	1.00	80.85	A16S
ATOM	541	C4*	U	A	30	146.268	85.458	8.403	1.00	80.85	A16S
ATOM	542	O4*	U	A	30	147.555	85.948	7.979	1.00	80.85	A16S
ATOM	543	C1*	U	A	30	148.548	85.012	8.316	1.00	80.85	A16S
ATOM	544	N1	U	A	30	149.725	85.720	8.820	1.00	64.32	A16S
ATOM	545	C6	U	A	30	149.625	86.730	9.734	1.00	64.32	A16S
ATOM	546	C2	U	A	30	150.952	85.319	8.331	1.00	64.32	A16S
ATOM	547	O2	U	A	30	151.083	84.435	7.493	1.00	64.32	A16S
ATOM	548	N3	U	A	30	152.025	85.991	8.847	1.00	64.32	A16S
ATOM	549	C4	U	A	30	151.999	87.002	9.765	1.00	64.32	A16S
ATOM	550	O4	U	A	30	153.062	87.494	10.145	1.00	64.32	A16S
ATOM	551	C5	U	A	30	150.690	87.372	10.210	1.00	64.32	A16S
ATOM	552	C2*	U	A	30	147.981	83.979	9.287	1.00	80.85	A16S
ATOM	553	O2*	U	A	30	148.077	82.672	8.750	1.00	80.85	A16S
ATOM	554	C3*	U	A	30	146.566	84.497	9.550	1.00	80.85	A16S
ATOM	555	O3*	U	A	30	145.676	83.364	9.604	1.00	80.85	A16S
ATOM	556	P	G	A	31	144.944	82.795	8.261	1.00	66.59	A16S
ATOM	557	O1P	G	A	31	145.971	82.449	7.225	1.00	77.30	A16S
ATOM	558	O2P	G	A	31	143.792	83.678	7.890	1.00	77.30	A16S
ATOM	559	O5*	G	A	31	144.367	81.406	8.786	1.00	66.59	A16S
ATOM	560	C5*	G	A	31	143.771	81.312	10.090	1.00	66.59	A16S
ATOM	561	C4*	G	A	31	144.167	80.023	10.750	1.00	66.59	A16S
ATOM	562	O4*	G	A	31	143.836	78.933	9.857	1.00	66.59	A16S
ATOM	563	C1*	G	A	31	144.970	78.129	9.642	1.00	66.59	A16S
ATOM	564	N9	G	A	31	144.917	77.675	8.261	1.00	77.30	A16S
ATOM	565	C4	G	A	31	144.705	76.392	7.822	1.00	77.30	A16S
ATOM	566	N3	G	A	31	144.550	75.305	8.595	1.00	77.30	A16S
ATOM	567	C2	G	A	31	144.341	74.214	7.875	1.00	77.30	A16S
ATOM	568	N2	G	A	31	144.188	73.022	8.477	1.00	77.30	A16S
ATOM	569	N1	G	A	31	144.276	74.200	6.509	1.00	77.30	A16S
ATOM	570	C6	G	A	31	144.438	75.308	5.692	1.00	77.30	A16S
ATOM	571	O6	G	A	31	144.371	75.185	4.461	1.00	77.30	A16S
ATOM	572	C5	G	A	31	144.672	76.479	6.449	1.00	77.30	A16S
ATOM	573	N7	G	A	31	144.883	77.784	6.032	1.00	77.30	A16S
ATOM	574	C8	G	A	31	145.030	78.455	7.139	1.00	77.30	A16S
ATOM	575	C2*	G	A	31	146.182	78.993	9.988	1.00	66.59	A16S
ATOM	576	O2*	G	A	31	147.231	78.172	10.453	1.00	66.59	A16S
ATOM	577	C3*	G	A	31	145.635	79.852	11.117	1.00	66.59	A16S
ATOM	578	O3*	G	A	31	145.684	79.057	12.293	1.00	66.59	A16S
ATOM	579	P	A	A	32	146.470	79.575	13.589	1.00	67.71	A16S
ATOM	580	O1P	A	A	32	146.726	78.358	14.391	1.00	75.09	A16S
ATOM	581	O2P	A	A	32	145.729	80.709	14.200	1.00	75.09	A16S
ATOM	582	O5*	A	A	32	147.849	80.115	13.015	1.00	67.71	A16S
ATOM	583	C5*	A	A	32	149.103	79.640	13.523	1.00	67.71	A16S
ATOM	584	C4*	A	A	32	149.937	79.075	12.398	1.00	67.71	A16S
ATOM	585	O4*	A	A	32	150.139	80.080	11.364	1.00	67.71	A16S
ATOM	586	C1*	A	A	32	151.455	79.979	10.850	1.00	67.71	A16S
ATOM	587	N9	A	A	32	152.136	81.268	11.084	1.00	75.09	A16S
ATOM	588	C4	A	A	32	153.421	81.638	10.727	1.00	75.09	A16S
ATOM	589	N3	A	A	32	154.345	80.899	10.089	1.00	75.09	A16S
ATOM	590	C2	A	A	32	155.470	81.596	9.923	1.00	75.09	A16S
ATOM	591	N1	A	A	32	155.757	82.852	10.287	1.00	75.09	A16S
ATOM	592	C6	A	A	32	154.811	83.568	10.921	1.00	75.09	A16S
ATOM	593	N6	A	A	32	155.094	84.819	11.280	1.00	75.09	A16S
ATOM	594	C5	A	A	32	153.574	82.947	11.165	1.00	75.09	A16S
ATOM	595	N7	A	A	32	152.419	83.396	11.784	1.00	75.09	A16S
ATOM	596	C8	A	A	32	151.599	82.371	11.712	1.00	75.09	A16S
ATOM	597	C2*	A	A	32	152.103	78.745	11.501	1.00	67.71	A16S
ATOM	598	O2*	A	A	32	151.869	77.597	10.696	1.00	67.71	A16S
ATOM	599	C3*	A	A	32	151.331	78.639	12.811	1.00	67.71	A16S
ATOM	600	O3*	A	A	32	151.299	77.307	13.333	1.00	67.71	A16S
ATOM	601	P	A	A	33	151.851	77.012	14.824	1.00	64.57	A16S
ATOM	602	O1P	A	A	33	151.277	75.705	15.263	1.00	73.37	A16S
ATOM	603	O2P	A	A	33	151.636	78.219	15.663	1.00	73.37	A16S
ATOM	604	O5*	A	A	33	153.421	76.816	14.615	1.00	64.57	A16S
ATOM	605	C5*	A	A	33	153.930	75.797	13.726	1.00	64.57	A16S
ATOM	606	C4*	A	A	33	155.287	76.197	13.183	1.00	64.57	A16S
ATOM	607	O4*	A	A	33	155.155	77.389	12.374	1.00	64.57	A16S
ATOM	608	C1*	A	A	33	156.308	78.194	12.521	1.00	64.57	A16S
ATOM	609	N9	A	A	33	155.889	79.514	12.996	1.00	73.37	A16S



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ATOM	610	C4	A	A	33	156.684	80.629	13.117	1.00	73.37	A16S
ATOM	611	N3	A	A	33	157.994	80.731	12.847	1.00	73.37	A16S
ATOM	612	C2	A	A	33	158.429	81.970	13.076	1.00	73.37	A16S
ATOM	613	N1	A	A	33	157.755	83.035	13.510	1.00	73.37	A16S
ATOM	614	C6	A	A	33	156.439	82.899	13.771	1.00	73.37	A16S
ATOM	615	N6	A	A	33	155.764	83.963	14.202	1.00	73.37	A16S
ATOM	616	C5	A	A	33	155.857	81.636	13.570	1.00	73.37	A16S
ATOM	617	N7	A	A	33	154.563	81.168	13.743	1.00	73.37	A16S
ATOM	618	C8	A	A	33	154.636	79.906	13.395	1.00	73.37	A16S
ATOM	619	C2*	A	A	33	157.274	77.472	13.459	1.00	64.57	A16S
ATOM	620	O2*	A	A	33	158.205	76.733	12.704	1.00	64.57	A16S
ATOM	621	C3*	A	A	33	156.335	76.555	14.220	1.00	64.57	A16S
ATOM	622	O3*	A	A	33	157.012	75.404	14.690	1.00	64.57	A16S
ATOM	623	P	C	A	34	157.514	75.347	16.221	1.00	66.14	A16S
ATOM	624	O1P	C	A	34	157.865	73.913	16.484	1.00	71.67	A16S
ATOM	625	O2P	C	A	34	156.526	76.035	17.111	1.00	71.67	A16S
ATOM	626	O5*	C	A	34	158.850	76.218	16.217	1.00	66.14	A16S
ATOM	627	C5*	C	A	34	160.043	75.714	15.613	1.00	66.14	A16S
ATOM	628	C4*	C	A	34	161.091	76.783	15.579	1.00	66.14	A16S
ATOM	629	O4*	C	A	34	160.595	77.884	14.782	1.00	66.14	A16S
ATOM	630	C1*	C	A	34	161.050	79.111	15.332	1.00	66.14	A16S
ATOM	631	N1	C	A	34	159.890	79.906	15.776	1.00	71.67	A16S
ATOM	632	C6	C	A	34	158.662	79.332	15.979	1.00	71.67	A16S
ATOM	633	C2	C	A	34	160.077	81.276	16.012	1.00	71.67	A16S
ATOM	634	O2	C	A	34	161.203	81.773	15.804	1.00	71.67	A16S
ATOM	635	N3	C	A	34	159.033	82.017	16.458	1.00	71.67	A16S
ATOM	636	C4	C	A	34	157.845	81.442	16.662	1.00	71.67	A16S
ATOM	637	N4	C	A	34	156.851	82.207	17.104	1.00	71.67	A16S
ATOM	638	C5	C	A	34	157.625	80.055	16.419	1.00	71.67	A16S
ATOM	639	C2*	C	A	34	161.943	78.782	16.522	1.00	66.14	A16S
ATOM	640	O2*	C	A	34	163.287	78.757	16.101	1.00	66.14	A16S
ATOM	641	C3*	C	A	34	161.411	77.417	16.919	1.00	66.14	A16S
ATOM	642	O3*	C	A	34	162.333	76.682	17.694	1.00	66.14	A16S
ATOM	643	P	G	A	35	162.167	76.666	19.291	1.00	64.06	A16S
ATOM	644	O1P	G	A	35	162.949	75.510	19.807	1.00	58.81	A16S
ATOM	645	O2P	G	A	35	160.716	76.748	19.574	1.00	58.81	A16S
ATOM	646	O5*	G	A	35	162.857	78.020	19.763	1.00	64.06	A16S
ATOM	647	C5*	G	A	35	164.226	78.244	19.459	1.00	64.06	A16S
ATOM	648	C4*	G	A	35	164.609	79.647	19.792	1.00	64.06	A16S
ATOM	649	O4*	G	A	35	163.877	80.573	18.957	1.00	64.06	A16S
ATOM	650	C1*	G	A	35	163.587	81.756	19.689	1.00	64.06	A16S
ATOM	651	N9	G	A	35	162.137	81.910	19.777	1.00	58.81	A16S
ATOM	652	C4	G	A	35	161.446	83.054	20.120	1.00	58.81	A16S
ATOM	653	N3	G	A	35	161.989	84.243	20.448	1.00	58.81	A16S
ATOM	654	C2	G	A	35	161.060	85.155	20.694	1.00	58.81	A16S
ATOM	655	N2	G	A	35	161.414	86.406	21.018	1.00	58.81	A16S
ATOM	656	N1	G	A	35	159.714	84.909	20.639	1.00	58.81	A16S
ATOM	657	C6	G	A	35	159.139	83.683	20.331	1.00	58.81	A16S
ATOM	658	O6	G	A	35	157.911	83.552	20.346	1.00	58.81	A16S
ATOM	659	C5	G	A	35	160.112	82.710	20.045	1.00	58.81	A16S
ATOM	660	N7	G	A	35	159.963	81.380	19.681	1.00	58.81	A16S
ATOM	661	C8	G	A	35	161.186	80.944	19.535	1.00	58.81	A16S
ATOM	662	C2*	G	A	35	164.211	81.589	21.067	1.00	64.06	A16S
ATOM	663	O2*	G	A	35	165.499	82.160	21.024	1.00	64.06	A16S
ATOM	664	C3*	G	A	35	164.254	80.073	21.193	1.00	64.06	A16S
ATOM	665	O3*	G	A	35	165.196	79.602	22.130	1.00	64.06	A16S
ATOM	666	P	C	A	36	164.680	79.064	23.551	1.00	76.53	A16S
ATOM	667	O1P	C	A	36	165.770	78.180	24.055	1.00	56.41	A16S
ATOM	668	O2P	C	A	36	163.303	78.514	23.397	1.00	56.41	A16S
ATOM	669	O5*	C	A	36	164.566	80.391	24.425	1.00	76.53	A16S
ATOM	670	C5*	C	A	36	165.696	81.263	24.582	1.00	76.53	A16S
ATOM	671	C4*	C	A	36	165.253	82.603	25.108	1.00	76.53	A16S
ATOM	672	O4*	C	A	36	164.595	83.364	24.060	1.00	76.53	A16S
ATOM	673	C1*	C	A	36	163.518	84.102	24.612	1.00	76.53	A16S
ATOM	674	N1	C	A	36	162.264	83.543	24.089	1.00	56.41	A16S
ATOM	675	C6	C	A	36	162.226	82.271	23.595	1.00	56.41	A16S
ATOM	676	C2	C	A	36	161.092	84.323	24.130	1.00	56.41	A16S
ATOM	677	O2	C	A	36	161.158	85.502	24.532	1.00	56.41	A16S
ATOM	678	N3	C	A	36	159.924	83.775	23.721	1.00	56.41	A16S
ATOM	679	C4	C	A	36	159.905	82.525	23.256	1.00	56.41	A16S
ATOM	680	N4	C	A	36	158.739	82.019	22.860	1.00	56.41	A16S
ATOM	681	C5	C	A	36	161.083	81.731	23.173	1.00	56.41	A16S
ATOM	682	C2*	C	A	36	163.560	83.906	26.125	1.00	76.53	A16S
ATOM	683	O2*	C	A	36	164.318	84.945	26.701	1.00	76.53	A16S
ATOM	684	C3*	C	A	36	164.236	82.547	26.233	1.00	76.53	A16S
ATOM	685	O3*	C	A	36	164.824	82.307	27.503	1.00	76.53	A16S
ATOM	686	P	U	A	37	163.970	81.533	28.633	1.00	81.91	A16S



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ATOM	687	O1P	U	A	37	164.798	81.543	29.876	1.00	65.09	A16S
ATOM	688	O2P	U	A	37	163.488	80.227	28.071	1.00	65.09	A16S
ATOM	689	O5*	U	A	37	162.692	82.466	28.858	1.00	81.91	A16S
ATOM	690	C5*	U	A	37	162.834	83.783	29.408	1.00	81.91	A16S
ATOM	691	C4*	U	A	37	161.488	84.440	29.579	1.00	81.91	A16S
ATOM	692	O4*	U	A	37	160.949	84.832	28.293	1.00	81.91	A16S
ATOM	693	C1*	U	A	37	159.528	84.777	28.336	1.00	81.91	A16S
ATOM	694	N1	U	A	37	159.060	83.711	27.437	1.00	65.09	A16S
ATOM	695	C6	U	A	37	159.848	82.627	27.145	1.00	65.09	A16S
ATOM	696	C2	U	A	37	157.772	83.809	26.926	1.00	65.09	A16S
ATOM	697	O2	U	A	37	157.046	84.773	27.125	1.00	65.09	A16S
ATOM	698	N3	U	A	37	157.363	82.729	26.178	1.00	65.09	A16S
ATOM	699	C4	U	A	37	158.094	81.595	25.893	1.00	65.09	A16S
ATOM	700	O4	U	A	37	157.548	80.648	25.328	1.00	65.09	A16S
ATOM	701	C5	U	A	37	159.419	81.597	26.415	1.00	65.09	A16S
ATOM	702	C2*	U	A	37	159.136	84.375	29.751	1.00	81.91	A16S
ATOM	703	O2*	U	A	37	158.886	85.525	30.538	1.00	81.91	A16S
ATOM	704	C3*	U	A	37	160.372	83.609	30.189	1.00	81.91	A16S
ATOM	705	O3*	U	A	37	160.428	83.470	31.592	1.00	81.91	A16S
ATOM	706	P	G	A	38	159.635	82.254	32.286	1.00	77.91	A16S
ATOM	707	O1P	G	A	38	159.867	82.392	33.745	1.00	91.53	A16S
ATOM	708	O2P	G	A	38	159.973	80.979	31.607	1.00	91.53	A16S
ATOM	709	O5*	G	A	38	158.107	82.573	31.969	1.00	77.91	A16S
ATOM	710	C5*	G	A	38	157.511	83.788	32.435	1.00	77.91	A16S
ATOM	711	C4*	G	A	38	156.075	83.864	32.002	1.00	77.91	A16S
ATOM	712	O4*	G	A	38	155.997	83.895	30.556	1.00	77.91	A16S
ATOM	713	C1*	G	A	38	154.784	83.291	30.134	1.00	77.91	A16S
ATOM	714	N9	G	A	38	155.085	82.166	29.258	1.00	91.53	A16S
ATOM	715	C4	G	A	38	154.185	81.511	28.457	1.00	91.53	A16S
ATOM	716	N3	G	A	38	152.884	81.825	28.313	1.00	91.53	A16S
ATOM	717	C2	G	A	38	152.269	80.994	27.495	1.00	91.53	A16S
ATOM	718	N2	G	A	38	150.968	81.163	27.221	1.00	91.53	A16S
ATOM	719	N1	G	A	38	152.881	79.936	26.876	1.00	91.53	A16S
ATOM	720	C6	G	A	38	154.220	79.600	27.006	1.00	91.53	A16S
ATOM	721	O6	G	A	38	154.673	78.625	26.394	1.00	91.53	A16S
ATOM	722	C5	G	A	38	154.893	80.487	27.874	1.00	91.53	A16S
ATOM	723	N7	G	A	38	156.220	80.514	28.277	1.00	91.53	A16S
ATOM	724	C8	G	A	38	156.289	81.529	29.092	1.00	91.53	A16S
ATOM	725	C2*	G	A	38	154.055	82.800	31.380	1.00	77.91	A16S
ATOM	726	O2*	G	A	38	153.091	83.763	31.748	1.00	77.91	A16S
ATOM	727	C3*	G	A	38	155.197	82.689	32.379	1.00	77.91	A16S
ATOM	728	O3*	G	A	38	154.733	82.778	33.710	1.00	77.91	A16S
ATOM	729	P	G	A	39	154.359	81.433	34.508	1.00	86.30	A16S
ATOM	730	O1P	G	A	39	155.387	81.271	35.582	1.00	95.11	A16S
ATOM	731	O2P	G	A	39	154.123	80.326	33.534	1.00	95.11	A16S
ATOM	732	O5*	G	A	39	152.965	81.791	35.180	1.00	86.30	A16S
ATOM	733	C5*	G	A	39	151.762	81.811	34.400	1.00	86.30	A16S
ATOM	734	C4*	G	A	39	150.648	82.425	35.200	1.00	86.30	A16S
ATOM	735	O4*	G	A	39	150.864	83.859	35.315	1.00	86.30	A16S
ATOM	736	C1*	G	A	39	149.609	84.520	35.360	1.00	86.30	A16S
ATOM	737	N9	G	A	39	149.488	85.425	34.220	1.00	95.11	A16S
ATOM	738	C4	G	A	39	148.448	86.300	34.022	1.00	95.11	A16S
ATOM	739	N3	G	A	39	147.425	86.516	34.881	1.00	95.11	A16S
ATOM	740	C2	G	A	39	146.549	87.380	34.404	1.00	95.11	A16S
ATOM	741	N2	G	A	39	145.468	87.700	35.139	1.00	95.11	A16S
ATOM	742	N1	G	A	39	146.667	87.988	33.175	1.00	95.11	A16S
ATOM	743	C6	G	A	39	147.710	87.782	32.271	1.00	95.11	A16S
ATOM	744	O6	G	A	39	147.709	88.374	31.184	1.00	95.11	A16S
ATOM	745	C5	G	A	39	148.665	86.854	32.779	1.00	95.11	A16S
ATOM	746	N7	G	A	39	149.846	86.374	32.226	1.00	95.11	A16S
ATOM	747	C8	G	A	39	150.308	85.541	33.122	1.00	95.11	A16S
ATOM	748	C2*	G	A	39	148.518	83.451	35.256	1.00	86.30	A16S
ATOM	749	O2*	G	A	39	148.025	83.114	36.535	1.00	86.30	A16S
ATOM	750	C3*	G	A	39	149.267	82.312	34.586	1.00	86.30	A16S
ATOM	751	O3*	G	A	39	148.663	81.057	34.835	1.00	86.30	A16S
ATOM	752	P	C	A	40	147.562	80.500	33.806	1.00	90.25	A16S
ATOM	753	O1P	C	A	40	147.268	79.078	34.151	1.00	86.33	A16S
ATOM	754	O2P	C	A	40	148.013	80.845	32.429	1.00	86.33	A16S
ATOM	755	O5*	C	A	40	146.269	81.370	34.137	1.00	90.25	A16S
ATOM	756	C5*	C	A	40	145.759	81.429	35.478	1.00	90.25	A16S
ATOM	757	C4*	C	A	40	144.545	82.318	35.547	1.00	90.25	A16S
ATOM	758	O4*	C	A	40	144.927	83.698	35.339	1.00	90.25	A16S
ATOM	759	C1*	C	A	40	143.891	84.378	34.649	1.00	90.25	A16S
ATOM	760	N1	C	A	40	144.435	84.928	33.395	1.00	86.33	A16S
ATOM	761	C6	C	A	40	145.619	84.474	32.884	1.00	86.33	A16S
ATOM	762	C2	C	A	40	143.714	85.920	32.723	1.00	86.33	A16S
ATOM	763	O2	C	A	40	142.654	86.330	33.220	1.00	86.33	A16S



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ATOM	764	N3	C	A	40	144.191	86.406	31.554	1.00	86.33	A16S
ATOM	765	C4	C	A	40	145.345	85.945	31.062	1.00	86.33	A16S
ATOM	766	N4	C	A	40	145.783	86.442	29.907	1.00	86.33	A16S
ATOM	767	C5	C	A	40	146.105	84.951	31.733	1.00	86.33	A16S
ATOM	768	C2*	C	A	40	142.754	83.382	34.409	1.00	90.25	A16S
ATOM	769	O2*	C	A	40	141.768	83.543	35.407	1.00	90.25	A16S
ATOM	770	C3*	C	A	40	143.486	82.049	34.500	1.00	90.25	A16S
ATOM	771	O3*	C	A	40	142.643	80.976	34.877	1.00	90.25	A16S
ATOM	772	P	G	A	41	142.001	80.042	33.737	1.00	85.38	A16S
ATOM	773	O1P	G	A	41	141.358	78.888	34.431	1.00	94.34	A16S
ATOM	774	O2P	G	A	41	143.028	79.795	32.685	1.00	94.34	A16S
ATOM	775	O5*	G	A	41	140.843	80.942	33.110	1.00	85.38	A16S
ATOM	776	C5*	G	A	41	139.765	81.394	33.940	1.00	85.38	A16S
ATOM	777	C4*	G	A	41	138.959	82.460	33.244	1.00	85.38	A16S
ATOM	778	O4*	G	A	41	139.761	83.647	33.022	1.00	85.38	A16S
ATOM	779	C1*	G	A	41	139.292	84.315	31.865	1.00	85.38	A16S
ATOM	780	N9	G	A	41	140.395	84.479	30.921	1.00	94.34	A16S
ATOM	781	C4	G	A	41	140.392	85.286	29.810	1.00	94.34	A16S
ATOM	782	N3	G	A	41	139.376	86.078	29.411	1.00	94.34	A16S
ATOM	783	C2	G	A	41	139.669	86.743	28.308	1.00	94.34	A16S
ATOM	784	N2	G	A	41	138.774	87.598	27.789	1.00	94.34	A16S
ATOM	785	N1	G	A	41	140.861	86.622	27.638	1.00	94.34	A16S
ATOM	786	C6	G	A	41	141.916	85.803	28.026	1.00	94.34	A16S
ATOM	787	O6	G	A	41	142.944	85.755	27.340	1.00	94.34	A16S
ATOM	788	C5	G	A	41	141.621	85.102	29.220	1.00	94.34	A16S
ATOM	789	N7	G	A	41	142.389	84.207	29.948	1.00	94.34	A16S
ATOM	790	C8	G	A	41	141.624	83.864	30.948	1.00	94.34	A16S
ATOM	791	C2*	G	A	41	138.136	83.493	31.285	1.00	85.38	A16S
ATOM	792	O2*	G	A	41	136.908	84.003	31.760	1.00	85.38	A16S
ATOM	793	C3*	G	A	41	138.398	82.119	31.878	1.00	85.38	A16S
ATOM	794	O3*	G	A	41	137.189	81.394	31.979	1.00	85.38	A16S
ATOM	795	P	G	A	42	136.644	80.599	30.703	1.00	79.76	A16S
ATOM	796	O1P	G	A	42	135.499	79.763	31.113	1.00	75.61	A16S
ATOM	797	O2P	G	A	42	137.801	79.962	30.056	1.00	75.61	A16S
ATOM	798	O5*	G	A	42	136.098	81.757	29.761	1.00	79.76	A16S
ATOM	799	C5*	G	A	42	134.866	82.414	30.080	1.00	79.76	A16S
ATOM	800	C4*	G	A	42	134.480	83.374	28.987	1.00	79.76	A16S
ATOM	801	O4*	G	A	42	135.471	84.420	28.886	1.00	79.76	A16S
ATOM	802	C1*	G	A	42	135.618	84.800	27.532	1.00	79.76	A16S
ATOM	803	N9	G	A	42	136.989	84.518	27.133	1.00	75.61	A16S
ATOM	804	C4	G	A	42	137.620	84.993	26.013	1.00	75.61	A16S
ATOM	805	N3	G	A	42	137.075	85.806	25.081	1.00	75.61	A16S
ATOM	806	C2	G	A	42	137.935	86.103	24.121	1.00	75.61	A16S
ATOM	807	N2	G	A	42	137.562	86.920	23.111	1.00	75.61	A16S
ATOM	808	N1	G	A	42	139.223	85.624	24.081	1.00	75.61	A16S
ATOM	809	C6	G	A	42	139.796	84.777	25.031	1.00	75.61	A16S
ATOM	810	O6	G	A	42	140.963	84.390	24.897	1.00	75.61	A16S
ATOM	811	C5	G	A	42	138.890	84.466	26.063	1.00	75.61	A16S
ATOM	812	N7	G	A	42	139.053	83.674	27.192	1.00	75.61	A16S
ATOM	813	C8	G	A	42	137.900	83.732	27.795	1.00	75.61	A16S
ATOM	814	C2*	G	A	42	134.612	84.004	26.706	1.00	79.76	A16S
ATOM	815	O2*	G	A	42	133.439	84.782	26.554	1.00	79.76	A16S
ATOM	816	C3*	G	A	42	134.395	82.788	27.591	1.00	79.76	A16S
ATOM	817	O3*	G	A	42	133.124	82.226	27.378	1.00	79.76	A16S
ATOM	818	P	C	A	43	132.964	81.025	26.340	1.00	70.65	A16S
ATOM	819	O1P	C	A	43	131.532	80.593	26.387	1.00	68.64	A16S
ATOM	820	O2P	C	A	43	134.060	80.042	26.601	1.00	68.64	A16S
ATOM	821	O5*	C	A	43	133.215	81.698	24.922	1.00	70.65	A16S
ATOM	822	C5*	C	A	43	132.183	82.465	24.299	1.00	70.65	A16S
ATOM	823	C4*	C	A	43	132.729	83.194	23.103	1.00	70.65	A16S
ATOM	824	O4*	C	A	43	133.902	83.934	23.508	1.00	70.65	A16S
ATOM	825	C1*	C	A	43	134.802	84.017	22.423	1.00	70.65	A16S
ATOM	826	N1	C	A	43	136.085	83.435	22.825	1.00	68.64	A16S
ATOM	827	C6	C	A	43	136.206	82.698	23.970	1.00	68.64	A16S
ATOM	828	C2	C	A	43	137.189	83.644	22.004	1.00	68.64	A16S
ATOM	829	O2	C	A	43	137.051	84.340	20.981	1.00	68.64	A16S
ATOM	830	N3	C	A	43	138.377	83.091	22.343	1.00	68.64	A16S
ATOM	831	C4	C	A	43	138.483	82.371	23.459	1.00	68.64	A16S
ATOM	832	N4	C	A	43	139.674	81.854	23.758	1.00	68.64	A16S
ATOM	833	C5	C	A	43	137.375	82.154	24.320	1.00	68.64	A16S
ATOM	834	C2*	C	A	43	134.187	83.276	21.242	1.00	70.65	A16S
ATOM	835	O2*	C	A	43	133.509	84.207	20.424	1.00	70.65	A16S
ATOM	836	C3*	C	A	43	133.214	82.349	21.941	1.00	70.65	A16S
ATOM	837	O3*	C	A	43	132.160	82.025	21.062	1.00	70.65	A16S
ATOM	838	P	G	A	44	132.196	80.624	20.292	1.00	77.07	A16S
ATOM	839	O1P	G	A	44	130.972	80.577	19.427	1.00	72.78	A16S
ATOM	840	O2P	G	A	44	132.423	79.579	21.336	1.00	72.78	A16S



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ATOM	841	O5*	G	A	44	133.508	80.687	19.382	1.00	77.07	A16S
ATOM	842	C5*	G	A	44	133.535	81.539	18.233	1.00	77.07	A16S
ATOM	843	C4*	G	A	44	134.935	81.693	17.674	1.00	77.07	A16S
ATOM	844	O4*	G	A	44	135.875	82.101	18.700	1.00	77.07	A16S
ATOM	845	C1*	G	A	44	137.189	81.882	18.216	1.00	77.07	A16S
ATOM	846	N9	G	A	44	137.998	81.195	19.222	1.00	72.78	A16S
ATOM	847	C4	G	A	44	139.365	80.989	19.154	1.00	72.78	A16S
ATOM	848	N3	G	A	44	140.190	81.441	18.184	1.00	72.78	A16S
ATOM	849	C2	G	A	44	141.438	81.042	18.369	1.00	72.78	A16S
ATOM	850	N2	G	A	44	142.403	81.416	17.509	1.00	72.78	A16S
ATOM	851	N1	G	A	44	141.838	80.253	19.409	1.00	72.78	A16S
ATOM	852	C6	G	A	44	141.012	79.769	20.409	1.00	72.78	A16S
ATOM	853	O6	G	A	44	141.480	79.037	21.277	1.00	72.78	A16S
ATOM	854	C5	G	A	44	139.671	80.210	20.242	1.00	72.78	A16S
ATOM	855	N7	G	A	44	138.539	79.972	21.010	1.00	72.78	A16S
ATOM	856	C8	G	A	44	137.575	80.582	20.374	1.00	72.78	A16S
ATOM	857	C2*	G	A	44	137.062	81.037	16.945	1.00	77.07	A16S
ATOM	858	O2*	G	A	44	137.160	81.880	15.817	1.00	77.07	A16S
ATOM	859	C3*	G	A	44	135.643	80.508	17.047	1.00	77.07	A16S
ATOM	860	O3*	G	A	44	135.208	80.223	15.733	1.00	77.07	A16S
ATOM	861	P	U	A	45	135.438	78.746	15.133	1.00	70.04	A16S
ATOM	862	O1P	U	A	45	134.864	78.734	13.758	1.00	77.70	A16S
ATOM	863	O2P	U	A	45	134.964	77.755	16.146	1.00	77.70	A16S
ATOM	864	O5*	U	A	45	137.024	78.582	15.024	1.00	70.04	A16S
ATOM	865	C5*	U	A	45	137.777	79.239	13.977	1.00	70.04	A16S
ATOM	866	C4*	U	A	45	139.272	79.015	14.161	1.00	70.04	A16S
ATOM	867	O4*	U	A	45	139.694	79.465	15.472	1.00	70.04	A16S
ATOM	868	C1*	U	A	45	140.701	78.608	15.974	1.00	70.04	A16S
ATOM	869	N1	U	A	45	140.172	77.956	17.175	1.00	77.70	A16S
ATOM	870	C6	U	A	45	138.822	77.888	17.408	1.00	77.70	A16S
ATOM	871	C2	U	A	45	141.073	77.417	18.057	1.00	77.70	A16S
ATOM	872	O2	U	A	45	142.276	77.447	17.871	1.00	77.70	A16S
ATOM	873	N3	U	A	45	140.515	76.835	19.162	1.00	77.70	A16S
ATOM	874	C4	U	A	45	139.171	76.734	19.455	1.00	77.70	A16S
ATOM	875	O4	U	A	45	138.813	76.135	20.471	1.00	77.70	A16S
ATOM	876	C5	U	A	45	138.306	77.313	18.485	1.00	77.70	A16S
ATOM	877	C2*	U	A	45	141.040	77.595	14.887	1.00	70.04	A16S
ATOM	878	O2*	U	A	45	142.162	78.068	14.181	1.00	70.04	A16S
ATOM	879	C3*	U	A	45	139.751	77.581	14.078	1.00	70.04	A16S
ATOM	880	O3*	U	A	45	139.979	77.246	12.737	1.00	70.04	A16S
ATOM	881	P	G	A	46	139.940	75.717	12.296	1.00	67.62	A16S
ATOM	882	O1P	G	A	46	140.080	75.731	10.809	1.00	69.66	A16S
ATOM	883	O2P	G	A	46	138.770	75.037	12.928	1.00	69.66	A16S
ATOM	884	O5*	G	A	46	141.286	75.143	12.912	1.00	67.62	A16S
ATOM	885	C5*	G	A	46	142.543	75.492	12.328	1.00	67.62	A16S
ATOM	886	C4*	G	A	46	143.654	74.760	13.015	1.00	67.62	A16S
ATOM	887	O4*	G	A	46	143.790	75.276	14.359	1.00	67.62	A16S
ATOM	888	C1*	G	A	46	144.152	74.225	15.238	1.00	67.62	A16S
ATOM	889	N9	G	A	46	143.061	74.041	16.187	1.00	69.66	A16S
ATOM	890	C4	G	A	46	143.145	73.508	17.454	1.00	69.66	A16S
ATOM	891	N3	G	A	46	144.267	73.051	18.054	1.00	69.66	A16S
ATOM	892	C2	G	A	46	144.026	72.589	19.270	1.00	69.66	A16S
ATOM	893	N2	G	A	46	145.030	72.087	20.002	1.00	69.66	A16S
ATOM	894	N1	G	A	46	142.780	72.578	19.853	1.00	69.66	A16S
ATOM	895	C6	G	A	46	141.606	73.033	19.251	1.00	69.66	A16S
ATOM	896	O6	G	A	46	140.514	72.950	19.857	1.00	69.66	A16S
ATOM	897	C5	G	A	46	141.857	73.538	17.946	1.00	69.66	A16S
ATOM	898	N7	G	A	46	140.985	74.081	17.011	1.00	69.66	A16S
ATOM	899	C8	G	A	46	141.742	74.363	15.988	1.00	69.66	A16S
ATOM	900	C2*	G	A	46	144.354	72.976	14.384	1.00	67.62	A16S
ATOM	901	O2*	G	A	46	145.709	72.911	13.975	1.00	67.62	A16S
ATOM	902	C3*	G	A	46	143.440	73.271	13.208	1.00	67.62	A16S
ATOM	903	O3*	G	A	46	143.786	72.508	12.074	1.00	67.62	A16S
ATOM	904	P	C	A	47	142.938	71.191	11.726	1.00	72.88	A16S
ATOM	905	O1P	C	A	47	141.704	71.625	11.039	1.00	76.95	A16S
ATOM	906	O2P	C	A	47	142.841	70.333	12.933	1.00	76.95	A16S
ATOM	907	O5*	C	A	47	143.840	70.458	10.643	1.00	72.88	A16S
ATOM	908	C5*	C	A	47	145.182	70.056	10.959	1.00	72.88	A16S
ATOM	909	C4*	C	A	47	146.006	69.952	9.697	1.00	72.88	A16S
ATOM	910	O4*	C	A	47	147.341	69.498	10.047	1.00	72.88	A16S
ATOM	911	C1*	C	A	47	147.635	68.305	9.348	1.00	72.88	A16S
ATOM	912	N1	C	A	47	148.497	67.476	10.204	1.00	76.95	A16S
ATOM	913	C6	C	A	47	148.242	67.345	11.541	1.00	76.95	A16S
ATOM	914	C2	C	A	47	149.619	66.855	9.634	1.00	76.95	A16S
ATOM	915	O2	C	A	47	149.791	66.925	8.406	1.00	76.95	A16S
ATOM	916	N3	C	A	47	150.482	66.189	10.435	1.00	76.95	A16S
ATOM	917	C4	C	A	47	150.245	66.107	11.746	1.00	76.95	A16S



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ATOM	918	N4	C	A	47	151.140	65.475	12.503	1.00	76.95	A16S
ATOM	919	C5	C	A	47	149.082	66.678	12.340	1.00	76.95	A16S
ATOM	920	C2*	C	A	47	146.292	67.707	8.936	1.00	72.88	A16S
ATOM	921	O2*	C	A	47	146.439	66.913	7.784	1.00	72.88	A16S
ATOM	922	C3*	C	A	47	145.487	68.970	8.653	1.00	72.88	A16S
ATOM	923	O3*	C	A	47	145.900	69.468	7.391	1.00	72.88	A16S
ATOM	924	P	C	A	48	144.820	69.820	6.269	1.00	71.75	A16S
ATOM	925	O1P	C	A	48	143.625	70.414	6.937	1.00	84.89	A16S
ATOM	926	O2P	C	A	48	144.664	68.676	5.305	1.00	84.89	A16S
ATOM	927	O5*	C	A	48	145.542	70.962	5.455	1.00	71.75	A16S
ATOM	928	C5*	C	A	48	146.296	71.958	6.123	1.00	71.75	A16S
ATOM	929	C4*	C	A	48	147.206	72.621	5.135	1.00	71.75	A16S
ATOM	930	O4*	C	A	48	147.235	74.047	5.309	1.00	71.75	A16S
ATOM	931	C1*	C	A	48	148.526	74.528	5.066	1.00	71.75	A16S
ATOM	932	N1	C	A	48	148.726	75.616	6.028	1.00	84.89	A16S
ATOM	933	C6	C	A	48	148.756	75.362	7.371	1.00	84.89	A16S
ATOM	934	C2	C	A	48	148.884	76.913	5.555	1.00	84.89	A16S
ATOM	935	O2	C	A	48	148.807	77.124	4.329	1.00	84.89	A16S
ATOM	936	N3	C	A	48	149.105	77.912	6.441	1.00	84.89	A16S
ATOM	937	C4	C	A	48	149.155	77.650	7.747	1.00	84.89	A16S
ATOM	938	N4	C	A	48	149.401	78.662	8.582	1.00	84.89	A16S
ATOM	939	C5	C	A	48	148.962	76.339	8.256	1.00	84.89	A16S
ATOM	940	C2*	C	A	48	149.513	73.364	5.244	1.00	71.75	A16S
ATOM	941	O2*	C	A	48	150.595	73.462	4.339	1.00	71.75	A16S
ATOM	942	C3*	C	A	48	148.632	72.125	5.047	1.00	71.75	A16S
ATOM	943	O3*	C	A	48	148.874	71.099	4.058	1.00	71.75	A16S
ATOM	944	P	U	A	49	148.772	71.415	2.473	1.00	82.20	A16S
ATOM	945	O1P	U	A	49	147.613	70.628	1.937	1.00	84.99	A16S
ATOM	946	O2P	U	A	49	148.854	72.881	2.212	1.00	84.99	A16S
ATOM	947	O5*	U	A	49	150.087	70.750	1.888	1.00	82.20	A16S
ATOM	948	C5*	U	A	49	150.235	69.341	1.904	1.00	82.20	A16S
ATOM	949	C4*	U	A	49	151.691	68.975	1.945	1.00	82.20	A16S
ATOM	950	O4*	U	A	49	152.299	69.479	3.167	1.00	82.20	A16S
ATOM	951	C1*	U	A	49	152.833	68.403	3.913	1.00	82.20	A16S
ATOM	952	N1	U	A	49	152.592	68.661	5.342	1.00	84.99	A16S
ATOM	953	C6	U	A	49	151.378	69.116	5.790	1.00	84.99	A16S
ATOM	954	C2	U	A	49	153.629	68.435	6.229	1.00	84.99	A16S
ATOM	955	O2	U	A	49	154.721	68.020	5.885	1.00	84.99	A16S
ATOM	956	N3	U	A	49	153.340	68.711	7.541	1.00	84.99	A16S
ATOM	957	C4	U	A	49	152.152	69.177	8.045	1.00	84.99	A16S
ATOM	958	O4	U	A	49	152.061	69.422	9.243	1.00	84.99	A16S
ATOM	959	C5	U	A	49	151.131	69.373	7.076	1.00	84.99	A16S
ATOM	960	C2*	U	A	49	152.143	67.137	3.404	1.00	82.20	A16S
ATOM	961	O2*	U	A	49	152.932	65.979	3.596	1.00	82.20	A16S
ATOM	962	C3*	U	A	49	151.903	67.473	1.935	1.00	82.20	A16S
ATOM	963	O3*	U	A	49	153.009	67.161	1.104	1.00	82.20	A16S
ATOM	964	P	A	A	50	152.798	66.177	-0.145	1.00	76.03	A16S
ATOM	965	O1P	A	A	50	151.901	66.839	-1.140	1.00	79.98	A16S
ATOM	966	O2P	A	A	50	154.153	65.722	-0.562	1.00	79.98	A16S
ATOM	967	O5*	A	A	50	152.017	64.947	0.495	1.00	76.03	A16S
ATOM	968	C5*	A	A	50	150.993	64.252	-0.236	1.00	76.03	A16S
ATOM	969	C4*	A	A	50	150.492	63.097	0.585	1.00	76.03	A16S
ATOM	970	O4*	A	A	50	151.591	62.175	0.778	1.00	76.03	A16S
ATOM	971	C1*	A	A	50	151.874	62.067	2.153	1.00	76.03	A16S
ATOM	972	N9	A	A	50	153.310	61.914	2.306	1.00	79.98	A16S
ATOM	973	C4	A	A	50	153.921	60.878	2.957	1.00	79.98	A16S
ATOM	974	N3	A	A	50	153.325	59.856	3.590	1.00	79.98	A16S
ATOM	975	C2	A	A	50	154.232	59.033	4.096	1.00	79.98	A16S
ATOM	976	N1	A	A	50	155.568	59.105	4.039	1.00	79.98	A16S
ATOM	977	C6	A	A	50	156.133	60.143	3.387	1.00	79.98	A16S
ATOM	978	N6	A	A	50	157.466	60.208	3.313	1.00	79.98	A16S
ATOM	979	C5	A	A	50	155.276	61.093	2.817	1.00	79.98	A16S
ATOM	980	N7	A	A	50	155.516	62.260	2.107	1.00	79.98	A16S
ATOM	981	C8	A	A	50	154.317	62.710	1.832	1.00	79.98	A16S
ATOM	982	C2*	A	A	50	151.286	63.307	2.817	1.00	76.03	A16S
ATOM	983	O2*	A	A	50	151.021	63.069	4.179	1.00	76.03	A16S
ATOM	984	C3*	A	A	50	150.031	63.505	1.981	1.00	76.03	A16S
ATOM	985	O3*	A	A	50	149.045	62.565	2.408	1.00	76.03	A16S
ATOM	986	P	A	A	51	147.609	63.072	2.916	1.00	79.56	A16S
ATOM	987	O1P	A	A	51	147.285	62.345	4.185	1.00	83.83	A16S
ATOM	988	O2P	A	A	51	147.633	64.566	2.914	1.00	83.83	A16S
ATOM	989	O5*	A	A	51	146.624	62.581	1.762	1.00	79.56	A16S
ATOM	990	C5*	A	A	51	146.691	63.199	0.479	1.00	79.56	A16S
ATOM	991	C4*	A	A	51	146.109	62.311	-0.580	1.00	79.56	A16S
ATOM	992	O4*	A	A	51	144.666	62.321	-0.508	1.00	79.56	A16S
ATOM	993	C1*	A	A	51	144.125	62.213	-1.813	1.00	79.56	A16S
ATOM	994	N9	A	A	51	142.885	62.999	-1.890	1.00	83.83	A16S



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ATOM	995	C4	A	A	51	141.843	62.820	-2.777	1.00	83.83	A16S
ATOM	996	N3	A	A	51	141.762	61.931	-3.778	1.00	83.83	A16S
ATOM	997	C2	A	A	51	140.592	62.036	-4.408	1.00	83.83	A16S
ATOM	998	N1	A	A	51	139.574	62.861	-4.166	1.00	83.83	A16S
ATOM	999	C6	A	A	51	139.685	63.735	-3.151	1.00	83.83	A16S
ATOM	1000	N6	A	A	51	138.662	64.542	-2.901	1.00	83.83	A16S
ATOM	1001	C5	A	A	51	140.875	63.734	-2.413	1.00	83.83	A16S
ATOM	1002	N7	A	A	51	141.299	64.494	-1.337	1.00	83.83	A16S
ATOM	1003	C8	A	A	51	142.496	64.029	-1.071	1.00	83.83	A16S
ATOM	1004	C2*	A	A	51	145.231	62.498	-2.840	1.00	79.56	A16S
ATOM	1005	O2*	A	A	51	145.431	61.405	-3.709	1.00	79.56	A16S
ATOM	1006	C3*	A	A	51	146.433	62.855	-1.957	1.00	79.56	A16S
ATOM	1007	O3*	A	A	51	147.750	62.404	-2.381	1.00	79.56	A16S
ATOM	1008	P	G	A	52	148.169	60.821	-2.324	1.00	73.76	A16S
ATOM	1009	O1P	G	A	52	146.989	59.922	-2.431	1.00	88.16	A16S
ATOM	1010	O2P	G	A	52	149.287	60.662	-3.284	1.00	88.16	A16S
ATOM	1011	O5*	G	A	52	148.785	60.620	-0.868	1.00	73.76	A16S
ATOM	1012	C5*	G	A	52	148.172	59.713	0.063	1.00	73.76	A16S
ATOM	1013	C4*	G	A	52	149.141	58.625	0.455	1.00	73.76	A16S
ATOM	1014	O4*	G	A	52	150.167	59.162	1.340	1.00	73.76	A16S
ATOM	1015	C1*	G	A	52	150.516	58.187	2.312	1.00	73.76	A16S
ATOM	1016	N9	G	A	52	150.180	58.707	3.635	1.00	88.16	A16S
ATOM	1017	C4	G	A	52	150.562	58.177	4.845	1.00	88.16	A16S
ATOM	1018	N3	G	A	52	151.340	57.089	5.027	1.00	88.16	A16S
ATOM	1019	C2	G	A	52	151.515	56.819	6.310	1.00	88.16	A16S
ATOM	1020	N2	G	A	52	152.257	55.765	6.679	1.00	88.16	A16S
ATOM	1021	N1	G	A	52	150.975	57.562	7.326	1.00	88.16	A16S
ATOM	1022	C6	G	A	52	150.175	58.684	7.158	1.00	88.16	A16S
ATOM	1023	O6	G	A	52	149.744	59.284	8.141	1.00	88.16	A16S
ATOM	1024	C5	G	A	52	149.971	58.978	5.797	1.00	88.16	A16S
ATOM	1025	N7	G	A	52	149.239	59.994	5.204	1.00	88.16	A16S
ATOM	1026	C8	G	A	52	149.399	59.799	3.924	1.00	88.16	A16S
ATOM	1027	C2*	G	A	52	149.715	56.922	1.998	1.00	73.76	A16S
ATOM	1028	O2*	G	A	52	150.476	56.069	1.172	1.00	73.76	A16S
ATOM	1029	C3*	G	A	52	148.522	57.486	1.247	1.00	73.76	A16S
ATOM	1030	O3*	G	A	52	147.941	56.519	0.384	1.00	73.76	A16S
ATOM	1031	P	A	A	53	146.820	55.512	0.959	1.00	73.97	A16S
ATOM	1032	O1P	A	A	53	146.482	54.544	-0.136	1.00	81.01	A16S
ATOM	1033	O2P	A	A	53	145.710	56.319	1.613	1.00	81.01	A16S
ATOM	1034	O5*	A	A	53	147.624	54.700	2.072	1.00	73.97	A16S
ATOM	1035	C5*	A	A	53	148.588	53.698	1.695	1.00	73.97	A16S
ATOM	1036	C4*	A	A	53	148.987	52.875	2.896	1.00	73.97	A16S
ATOM	1037	O4*	A	A	53	149.782	53.687	3.796	1.00	73.97	A16S
ATOM	1038	C1*	A	A	53	149.444	53.392	5.136	1.00	73.97	A16S
ATOM	1039	N9	A	A	53	148.849	54.605	5.708	1.00	81.01	A16S
ATOM	1040	C4	A	A	53	148.643	54.919	7.034	1.00	81.01	A16S
ATOM	1041	N3	A	A	53	148.963	54.187	8.113	1.00	81.01	A16S
ATOM	1042	C2	A	A	53	148.600	54.820	9.232	1.00	81.01	A16S
ATOM	1043	N1	A	A	53	147.996	56.004	9.381	1.00	81.01	A16S
ATOM	1044	C6	A	A	53	147.682	56.705	8.279	1.00	81.01	A16S
ATOM	1045	N6	A	A	53	147.063	57.870	8.424	1.00	81.01	A16S
ATOM	1046	C5	A	A	53	148.022	56.157	7.036	1.00	81.01	A16S
ATOM	1047	N7	A	A	53	147.854	56.623	5.744	1.00	81.01	A16S
ATOM	1048	C8	A	A	53	148.360	55.672	4.997	1.00	81.01	A16S
ATOM	1049	C2*	A	A	53	148.474	52.205	5.101	1.00	73.97	A16S
ATOM	1050	O2*	A	A	53	149.175	50.983	5.137	1.00	73.97	A16S
ATOM	1051	C3*	A	A	53	147.831	52.371	3.738	1.00	73.97	A16S
ATOM	1052	O3*	A	A	53	147.283	51.152	3.245	1.00	73.97	A16S
ATOM	1053	P	C	A	54	145.854	50.645	3.793	1.00	71.91	A16S
ATOM	1054	O1P	C	A	54	145.722	49.224	3.371	1.00	79.23	A16S
ATOM	1055	O2P	C	A	54	144.772	51.610	3.445	1.00	79.23	A16S
ATOM	1056	O5*	C	A	54	146.076	50.694	5.368	1.00	71.91	A16S
ATOM	1057	C5*	C	A	54	144.982	50.747	6.283	1.00	71.91	A16S
ATOM	1058	C4*	C	A	54	145.518	50.770	7.688	1.00	71.91	A16S
ATOM	1059	O4*	C	A	54	146.305	51.971	7.878	1.00	71.91	A16S
ATOM	1060	C1*	C	A	54	146.169	52.421	9.216	1.00	71.91	A16S
ATOM	1061	N1	C	A	54	145.609	53.779	9.205	1.00	79.23	A16S
ATOM	1062	C6	C	A	54	145.059	54.305	8.074	1.00	79.23	A16S
ATOM	1063	C2	C	A	54	145.622	54.515	10.388	1.00	79.23	A16S
ATOM	1064	O2	C	A	54	146.170	54.030	11.393	1.00	79.23	A16S
ATOM	1065	N3	C	A	54	145.045	55.729	10.411	1.00	79.23	A16S
ATOM	1066	C4	C	A	54	144.475	56.213	9.311	1.00	79.23	A16S
ATOM	1067	N4	C	A	54	143.872	57.393	9.390	1.00	79.23	A16S
ATOM	1068	C5	C	A	54	144.485	55.504	8.085	1.00	79.23	A16S
ATOM	1069	C2*	C	A	54	145.239	51.453	9.954	1.00	71.91	A16S
ATOM	1070	O2*	C	A	54	145.990	50.561	10.752	1.00	71.91	A16S
ATOM	1071	C3*	C	A	54	144.483	50.802	8.797	1.00	71.91	A16S



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ATOM	1072	O3*	C	A	54	144.039	49.486	9.094	1.00	71.91	A16S
ATOM	1073	P	A	A	55	142.962	49.250	10.260	1.00	76.51	A16S
ATOM	1074	O1P	A	A	55	142.227	47.999	9.918	1.00	92.68	A16S
ATOM	1075	O2P	A	A	55	142.199	50.513	10.449	1.00	92.68	A16S
ATOM	1076	O5*	A	A	55	143.866	49.009	11.560	1.00	76.51	A16S
ATOM	1077	C5*	A	A	55	144.780	47.885	11.645	1.00	76.51	A16S
ATOM	1078	C4*	A	A	55	145.014	47.485	13.093	1.00	76.51	A16S
ATOM	1079	O4*	A	A	55	145.853	48.446	13.781	1.00	76.51	A16S
ATOM	1080	C1*	A	A	55	145.478	48.522	15.148	1.00	76.51	A16S
ATOM	1081	N9	A	A	55	145.195	49.923	15.458	1.00	92.68	A16S
ATOM	1082	C4	A	A	55	144.785	50.455	16.658	1.00	92.68	A16S
ATOM	1083	N3	A	A	55	144.576	49.806	17.812	1.00	92.68	A16S
ATOM	1084	C2	A	A	55	144.153	50.647	18.751	1.00	92.68	A16S
ATOM	1085	N1	A	A	55	143.934	51.961	18.675	1.00	92.68	A16S
ATOM	1086	C6	A	A	55	144.157	52.582	17.501	1.00	92.68	A16S
ATOM	1087	N6	A	A	55	143.937	53.894	17.420	1.00	92.68	A16S
ATOM	1088	C5	A	A	55	144.606	51.805	16.430	1.00	92.68	A16S
ATOM	1089	N7	A	A	55	144.919	52.125	15.121	1.00	92.68	A16S
ATOM	1090	C8	A	A	55	145.267	50.980	14.590	1.00	92.68	A16S
ATOM	1091	C2*	A	A	55	144.289	47.577	15.369	1.00	76.51	A16S
ATOM	1092	O2*	A	A	55	144.697	46.380	15.998	1.00	76.51	A16S
ATOM	1093	C3*	A	A	55	143.771	47.368	13.949	1.00	76.51	A16S
ATOM	1094	O3*	A	A	55	143.193	46.088	13.781	1.00	76.51	A16S
ATOM	1095	P	U	A	56	141.598	45.933	13.805	1.00	80.59	A16S
ATOM	1096	O1P	U	A	56	141.329	44.473	13.862	1.00	96.73	A16S
ATOM	1097	O2P	U	A	56	141.000	46.753	12.707	1.00	96.73	A16S
ATOM	1098	O5*	U	A	56	141.192	46.582	15.204	1.00	80.59	A16S
ATOM	1099	C5*	U	A	56	141.604	45.978	16.437	1.00	80.59	A16S
ATOM	1100	C4*	U	A	56	141.146	46.811	17.601	1.00	80.59	A16S
ATOM	1101	O4*	U	A	56	142.008	47.962	17.742	1.00	80.59	A16S
ATOM	1102	C1*	U	A	56	141.246	49.074	18.195	1.00	80.59	A16S
ATOM	1103	N1	U	A	56	141.323	50.143	17.181	1.00	96.73	A16S
ATOM	1104	C6	U	A	56	141.641	49.868	15.867	1.00	96.73	A16S
ATOM	1105	C2	U	A	56	141.049	51.440	17.582	1.00	96.73	A16S
ATOM	1106	O2	U	A	56	140.790	51.740	18.736	1.00	96.73	A16S
ATOM	1107	N3	U	A	56	141.093	52.376	16.580	1.00	96.73	A16S
ATOM	1108	C4	U	A	56	141.383	52.160	15.253	1.00	96.73	A16S
ATOM	1109	O4	U	A	56	141.313	53.096	14.460	1.00	96.73	A16S
ATOM	1110	C5	U	A	56	141.680	50.807	14.921	1.00	96.73	A16S
ATOM	1111	C2*	U	A	56	139.808	48.593	18.415	1.00	80.59	A16S
ATOM	1112	O2*	U	A	56	139.598	48.230	19.767	1.00	80.59	A16S
ATOM	1113	C3*	U	A	56	139.746	47.392	17.486	1.00	80.59	A16S
ATOM	1114	O3*	U	A	56	138.731	46.485	17.867	1.00	80.59	A16S
ATOM	1115	P	G	A	57	137.259	46.650	17.251	1.00	81.79	A16S
ATOM	1116	O1P	G	A	57	136.461	45.455	17.644	1.00	94.00	A16S
ATOM	1117	O2P	G	A	57	137.400	46.994	15.807	1.00	94.00	A16S
ATOM	1118	O5*	G	A	57	136.666	47.904	18.033	1.00	81.79	A16S
ATOM	1119	C5*	G	A	57	136.393	47.823	19.442	1.00	81.79	A16S
ATOM	1120	C4*	G	A	57	135.751	49.100	19.933	1.00	81.79	A16S
ATOM	1121	O4*	G	A	57	136.707	50.194	19.856	1.00	81.79	A16S
ATOM	1122	C1*	G	A	57	136.032	51.398	19.526	1.00	81.79	A16S
ATOM	1123	N9	G	A	57	136.538	51.874	18.235	1.00	94.00	A16S
ATOM	1124	C4	G	A	57	136.641	53.188	17.821	1.00	94.00	A16S
ATOM	1125	N3	G	A	57	136.316	54.283	18.547	1.00	94.00	A16S
ATOM	1126	C2	G	A	57	136.519	55.405	17.871	1.00	94.00	A16S
ATOM	1127	N2	G	A	57	136.255	56.588	18.443	1.00	94.00	A16S
ATOM	1128	N1	G	A	57	136.996	55.447	16.586	1.00	94.00	A16S
ATOM	1129	C6	G	A	57	137.329	54.337	15.819	1.00	94.00	A16S
ATOM	1130	O6	G	A	57	137.732	54.488	14.668	1.00	94.00	A16S
ATOM	1131	C5	G	A	57	137.128	53.127	16.531	1.00	94.00	A16S
ATOM	1132	N7	G	A	57	137.340	51.812	16.143	1.00	94.00	A16S
ATOM	1133	C8	G	A	57	136.982	51.105	17.182	1.00	94.00	A16S
ATOM	1134	C2*	G	A	57	134.534	51.076	19.468	1.00	81.79	A16S
ATOM	1135	O2*	G	A	57	133.909	51.330	20.713	1.00	81.79	A16S
ATOM	1136	C3*	G	A	57	134.550	49.592	19.144	1.00	81.79	A16S
ATOM	1137	O3*	G	A	57	133.328	48.960	19.495	1.00	81.79	A16S
ATOM	1138	P	C	A	58	132.215	48.721	18.356	1.00	83.84	A16S
ATOM	1139	O1P	C	A	58	131.101	47.915	18.916	1.00	86.31	A16S
ATOM	1140	O2P	C	A	58	132.929	48.242	17.137	1.00	86.31	A16S
ATOM	1141	O5*	C	A	58	131.628	50.178	18.073	1.00	83.84	A16S
ATOM	1142	C5*	C	A	58	130.889	50.870	19.091	1.00	83.84	A16S
ATOM	1143	C4*	C	A	58	130.887	52.364	18.850	1.00	83.84	A16S
ATOM	1144	O4*	C	A	58	132.249	52.876	18.795	1.00	83.84	A16S
ATOM	1145	C1*	C	A	58	132.310	53.988	17.910	1.00	83.84	A16S
ATOM	1146	N1	C	A	58	133.149	53.624	16.736	1.00	86.31	A16S
ATOM	1147	C6	C	A	58	133.330	52.313	16.386	1.00	86.31	A16S
ATOM	1148	C2	C	A	58	133.743	54.647	15.964	1.00	86.31	A16S



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ATOM	1149	O2	C	A	58	133.594	55.831	16.303	1.00	86.31	A16S
ATOM	1150	N3	C	A	58	134.466	54.310	14.869	1.00	86.31	A16S
ATOM	1151	C4	C	A	58	134.619	53.025	14.536	1.00	86.31	A16S
ATOM	1152	N4	C	A	58	135.337	52.738	13.446	1.00	86.31	A16S
ATOM	1153	C5	C	A	58	134.046	51.974	15.306	1.00	86.31	A16S
ATOM	1154	C2*	C	A	58	130.872	54.272	17.479	1.00	83.84	A16S
ATOM	1155	O2*	C	A	58	130.266	55.143	18.420	1.00	83.84	A16S
ATOM	1156	C3*	C	A	58	130.255	52.887	17.573	1.00	83.84	A16S
ATOM	1157	O3*	C	A	58	128.847	52.969	17.639	1.00	83.84	A16S
ATOM	1158	P	A	A	59	127.984	52.814	16.289	1.00	91.51	A16S
ATOM	1159	O1P	A	A	59	126.554	52.859	16.729	1.00	103.61	A16S
ATOM	1160	O2P	A	A	59	128.483	51.644	15.535	1.00	103.61	A16S
ATOM	1161	O5*	A	A	59	128.333	54.105	15.419	1.00	91.51	A16S
ATOM	1162	C5*	A	A	59	127.965	55.409	15.887	1.00	91.51	A16S
ATOM	1163	C4*	A	A	59	128.411	56.478	14.918	1.00	91.51	A16S
ATOM	1164	O4*	A	A	59	129.850	56.417	14.755	1.00	91.51	A16S
ATOM	1165	C1*	A	A	59	130.199	56.830	13.446	1.00	91.51	A16S
ATOM	1166	N9	A	A	59	130.926	55.736	12.793	1.00	103.61	A16S
ATOM	1167	C4	A	A	59	131.302	55.690	11.472	1.00	103.61	A16S
ATOM	1168	N3	A	A	59	131.089	56.625	10.532	1.00	103.61	A16S
ATOM	1169	C2	A	A	59	131.583	56.237	9.360	1.00	103.61	A16S
ATOM	1170	N1	A	A	59	132.215	55.107	9.042	1.00	103.61	A16S
ATOM	1171	C6	A	A	59	132.412	54.186	10.009	1.00	103.61	A16S
ATOM	1172	N6	A	A	59	133.033	53.051	9.688	1.00	103.61	A16S
ATOM	1173	C5	A	A	59	131.941	54.479	11.303	1.00	103.61	A16S
ATOM	1174	N7	A	A	59	131.983	53.773	12.498	1.00	103.61	A16S
ATOM	1175	C8	A	A	59	131.369	54.558	13.348	1.00	103.61	A16S
ATOM	1176	C2*	A	A	59	128.905	57.236	12.732	1.00	91.51	A16S
ATOM	1177	O2*	A	A	59	128.733	58.635	12.891	1.00	91.51	A16S
ATOM	1178	C3*	A	A	59	127.860	56.435	13.502	1.00	91.51	A16S
ATOM	1179	O3*	A	A	59	126.577	57.046	13.447	1.00	91.51	A16S
ATOM	1180	P	A	A	60	125.662	56.874	12.136	1.00	67.47	A16S
ATOM	1181	O1P	A	A	60	126.444	57.372	10.992	1.00	94.41	A16S
ATOM	1182	O2P	A	A	60	124.303	57.422	12.404	1.00	94.41	A16S
ATOM	1183	O5*	A	A	60	125.518	55.309	11.932	1.00	67.47	A16S
ATOM	1184	C5*	A	A	60	124.821	54.517	12.891	1.00	67.47	A16S
ATOM	1185	C4*	A	A	60	123.733	53.737	12.212	1.00	67.47	A16S
ATOM	1186	O4*	A	A	60	122.739	54.653	11.696	1.00	67.47	A16S
ATOM	1187	C1*	A	A	60	122.418	54.320	10.362	1.00	67.47	A16S
ATOM	1188	N9	A	A	60	122.112	55.568	9.671	1.00	94.41	A16S
ATOM	1189	C4	A	A	60	120.941	55.862	9.019	1.00	94.41	A16S
ATOM	1190	N3	A	A	60	119.884	55.056	8.845	1.00	94.41	A16S
ATOM	1191	C2	A	A	60	118.915	55.689	8.193	1.00	94.41	A16S
ATOM	1192	N1	A	A	60	118.882	56.941	7.736	1.00	94.41	A16S
ATOM	1193	C6	A	A	60	119.958	57.727	7.929	1.00	94.41	A16S
ATOM	1194	N6	A	A	60	119.914	58.983	7.485	1.00	94.41	A16S
ATOM	1195	C5	A	A	60	121.060	57.171	8.598	1.00	94.41	A16S
ATOM	1196	N7	A	A	60	122.300	57.687	8.949	1.00	94.41	A16S
ATOM	1197	C8	A	A	60	122.889	56.695	9.573	1.00	94.41	A16S
ATOM	1198	C2*	A	A	60	123.592	53.536	9.781	1.00	67.47	A16S
ATOM	1199	O2*	A	A	60	123.084	52.601	8.852	1.00	67.47	A16S
ATOM	1200	C3*	A	A	60	124.176	52.890	11.033	1.00	67.47	A16S
ATOM	1201	O3*	A	A	60	124.500	51.501	11.227	1.00	67.47	A16S
ATOM	1202	P	G	A	61	123.376	50.442	11.704	1.00	74.77	A16S
ATOM	1203	O1P	G	A	61	124.146	49.262	12.180	1.00	69.80	A16S
ATOM	1204	O2P	G	A	61	122.340	50.268	10.641	1.00	69.80	A16S
ATOM	1205	O5*	G	A	61	122.712	51.109	12.993	1.00	74.77	A16S
ATOM	1206	C5*	G	A	61	121.434	50.656	13.493	1.00	74.77	A16S
ATOM	1207	C4*	G	A	61	120.413	51.756	13.360	1.00	74.77	A16S
ATOM	1208	O4*	G	A	61	120.326	52.130	11.962	1.00	74.77	A16S
ATOM	1209	C1*	G	A	61	118.988	52.468	11.631	1.00	74.77	A16S
ATOM	1210	N9	G	A	61	118.525	51.518	10.624	1.00	69.80	A16S
ATOM	1211	C4	G	A	61	117.373	51.595	9.883	1.00	69.80	A16S
ATOM	1212	N3	G	A	61	116.468	52.587	9.932	1.00	69.80	A16S
ATOM	1213	C2	G	A	61	115.473	52.382	9.085	1.00	69.80	A16S
ATOM	1214	N2	G	A	61	114.493	53.293	8.985	1.00	69.80	A16S
ATOM	1215	N1	G	A	61	115.364	51.270	8.274	1.00	69.80	A16S
ATOM	1216	C6	G	A	61	116.276	50.220	8.236	1.00	69.80	A16S
ATOM	1217	O6	G	A	61	116.063	49.228	7.519	1.00	69.80	A16S
ATOM	1218	C5	G	A	61	117.363	50.454	9.103	1.00	69.80	A16S
ATOM	1219	N7	G	A	61	118.495	49.690	9.334	1.00	69.80	A16S
ATOM	1220	C8	G	A	61	119.154	50.357	10.241	1.00	69.80	A16S
ATOM	1221	C2*	G	A	61	118.171	52.392	12.920	1.00	74.77	A16S
ATOM	1222	O2*	G	A	61	118.137	53.665	13.542	1.00	74.77	A16S
ATOM	1223	C3*	G	A	61	118.986	51.404	13.735	1.00	74.77	A16S
ATOM	1224	O3*	G	A	61	118.732	51.562	15.109	1.00	74.77	A16S
ATOM	1225	P	U	A	62	117.835	50.468	15.864	1.00	64.17	A16S



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ATOM	1226	O1P	U	A	62	117.674	49.282	14.966	1.00	66.69	A16S
ATOM	1227	O2P	U	A	62	118.404	50.283	17.237	1.00	66.69	A16S
ATOM	1228	O5*	U	A	62	116.379	51.105	15.997	1.00	64.17	A16S
ATOM	1229	C5*	U	A	62	116.077	52.424	15.547	1.00	64.17	A16S
ATOM	1230	C4*	U	A	62	114.797	52.410	14.745	1.00	64.17	A16S
ATOM	1231	O4*	U	A	62	115.068	52.207	13.343	1.00	64.17	A16S
ATOM	1232	C1*	U	A	62	114.007	51.494	12.751	1.00	64.17	A16S
ATOM	1233	N1	U	A	62	114.572	50.332	12.056	1.00	66.69	A16S
ATOM	1234	C6	U	A	62	115.742	49.737	12.468	1.00	66.69	A16S
ATOM	1235	C2	U	A	62	113.880	49.857	10.967	1.00	66.69	A16S
ATOM	1236	O2	U	A	62	112.847	50.370	10.570	1.00	66.69	A16S
ATOM	1237	N3	U	A	62	114.439	48.764	10.355	1.00	66.69	A16S
ATOM	1238	C4	U	A	62	115.600	48.119	10.708	1.00	66.69	A16S
ATOM	1239	O4	U	A	62	116.021	47.206	9.996	1.00	66.69	A16S
ATOM	1240	C5	U	A	62	116.266	48.675	11.849	1.00	66.69	A16S
ATOM	1241	C2*	U	A	62	112.978	51.163	13.833	1.00	64.17	A16S
ATOM	1242	O2*	U	A	62	111.904	52.059	13.709	1.00	64.17	A16S
ATOM	1243	C3*	U	A	62	113.799	51.331	15.113	1.00	64.17	A16S
ATOM	1244	O3*	U	A	62	113.062	51.772	16.244	1.00	64.17	A16S
ATOM	1245	P	C	A	63	112.043	50.776	16.986	1.00	68.12	A16S
ATOM	1246	O1P	C	A	63	112.510	49.362	16.857	1.00	61.97	A16S
ATOM	1247	O2P	C	A	63	111.772	51.342	18.339	1.00	61.97	A16S
ATOM	1248	O5*	C	A	63	110.713	50.927	16.136	1.00	68.12	A16S
ATOM	1249	C5*	C	A	63	109.748	49.907	16.185	1.00	68.12	A16S
ATOM	1250	C4*	C	A	63	108.825	50.002	15.015	1.00	68.12	A16S
ATOM	1251	O4*	C	A	63	109.567	50.188	13.792	1.00	68.12	A16S
ATOM	1252	C1*	C	A	63	108.973	49.413	12.759	1.00	68.12	A16S
ATOM	1253	N1	C	A	63	109.990	48.477	12.238	1.00	61.97	A16S
ATOM	1254	C6	C	A	63	111.195	48.334	12.876	1.00	61.97	A16S
ATOM	1255	C2	C	A	63	109.706	47.723	11.069	1.00	61.97	A16S
ATOM	1256	O2	C	A	63	108.619	47.889	10.486	1.00	61.97	A16S
ATOM	1257	N3	C	A	63	110.631	46.845	10.614	1.00	61.97	A16S
ATOM	1258	C4	C	A	63	111.799	46.711	11.258	1.00	61.97	A16S
ATOM	1259	N4	C	A	63	112.677	45.826	10.790	1.00	61.97	A16S
ATOM	1260	C5	C	A	63	112.120	47.476	12.422	1.00	61.97	A16S
ATOM	1261	C2*	C	A	63	107.744	48.706	13.342	1.00	68.12	A16S
ATOM	1262	O2*	C	A	63	106.561	49.423	13.045	1.00	68.12	A16S
ATOM	1263	C3*	C	A	63	108.075	48.703	14.825	1.00	68.12	A16S
ATOM	1264	O3*	C	A	63	106.964	48.664	15.700	1.00	68.12	A16S
ATOM	1265	P	G	A	64	107.057	47.798	17.046	1.00	90.72	A16S
ATOM	1266	O1P	G	A	64	106.158	48.458	18.021	1.00	82.92	A16S
ATOM	1267	O2P	G	A	64	108.475	47.537	17.425	1.00	82.92	A16S
ATOM	1268	O5*	G	A	64	106.370	46.431	16.615	1.00	90.72	A16S
ATOM	1269	C5*	G	A	64	105.003	46.415	16.150	1.00	90.72	A16S
ATOM	1270	C4*	G	A	64	104.384	45.070	16.428	1.00	90.72	A16S
ATOM	1271	O4*	G	A	64	105.127	44.086	15.679	1.00	90.72	A16S
ATOM	1272	C1*	G	A	64	105.165	42.885	16.406	1.00	90.72	A16S
ATOM	1273	N9	G	A	64	106.539	42.407	16.442	1.00	82.92	A16S
ATOM	1274	C4	G	A	64	106.998	41.283	15.797	1.00	82.92	A16S
ATOM	1275	N3	G	A	64	106.248	40.436	15.048	1.00	82.92	A16S
ATOM	1276	C2	G	A	64	106.967	39.456	14.533	1.00	82.92	A16S
ATOM	1277	N2	G	A	64	106.376	38.538	13.754	1.00	82.92	A16S
ATOM	1278	N1	G	A	64	108.318	39.310	14.740	1.00	82.92	A16S
ATOM	1279	C6	G	A	64	109.111	40.168	15.502	1.00	82.92	A16S
ATOM	1280	O6	G	A	64	110.330	39.951	15.609	1.00	82.92	A16S
ATOM	1281	C5	G	A	64	108.345	41.232	16.064	1.00	82.92	A16S
ATOM	1282	N7	G	A	64	108.726	42.297	16.874	1.00	82.92	A16S
ATOM	1283	C8	G	A	64	107.620	42.963	17.079	1.00	82.92	A16S
ATOM	1284	C2*	G	A	64	104.456	43.081	17.747	1.00	90.72	A16S
ATOM	1285	O2*	G	A	64	103.145	42.539	17.650	1.00	90.72	A16S
ATOM	1286	C3*	G	A	64	104.429	44.598	17.885	1.00	90.72	A16S
ATOM	1287	O3*	G	A	64	103.267	44.905	18.696	1.00	90.72	A16S
ATOM	1288	P	U	A	65	101.962	45.636	18.068	1.00	83.08	A16S
ATOM	1289	O1P	U	A	65	100.795	45.115	18.820	1.00	114.15	A16S
ATOM	1290	O2P	U	A	65	102.202	47.102	18.006	1.00	114.15	A16S
ATOM	1291	O5*	U	A	65	101.843	45.105	16.574	1.00	83.08	A16S
ATOM	1292	C5*	U	A	65	100.578	45.019	15.920	1.00	83.08	A16S
ATOM	1293	C4*	U	A	65	100.407	46.148	14.921	1.00	83.08	A16S
ATOM	1294	O4*	U	A	65	99.414	47.104	15.378	1.00	83.08	A16S
ATOM	1295	C1*	U	A	65	99.890	48.408	15.153	1.00	83.08	A16S
ATOM	1296	N1	U	A	65	99.283	49.312	16.140	1.00	114.15	A16S
ATOM	1297	C6	U	A	65	99.463	49.140	17.499	1.00	114.15	A16S
ATOM	1298	C2	U	A	65	98.509	50.354	15.651	1.00	114.15	A16S
ATOM	1299	O2	U	A	65	98.321	50.540	14.455	1.00	114.15	A16S
ATOM	1300	N3	U	A	65	97.959	51.169	16.614	1.00	114.15	A16S
ATOM	1301	C4	U	A	65	98.100	51.052	17.987	1.00	114.15	A16S
ATOM	1302	O4	U	A	65	97.552	51.873	18.725	1.00	114.15	A16S



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ATOM	1303	C5	U	A	65	98.911	49.951	18.412	1.00114.15	A16S
ATOM	1304	C2*	U	A	65	101.414	48.300	15.169	1.00 83.08	A16S
ATOM	1305	O2*	U	A	65	101.968	49.389	14.455	1.00 83.08	A16S
ATOM	1306	C3*	U	A	65	101.624	46.954	14.472	1.00 83.08	A16S
ATOM	1307	O3*	U	A	65	101.505	47.173	13.068	1.00 83.08	A16S
ATOM	1308	P	G	A	66	102.739	46.852	12.090	1.00 81.09	A16S
ATOM	1309	O1P	G	A	66	103.868	46.279	12.889	1.00 72.53	A16S
ATOM	1310	O2P	G	A	66	102.956	48.080	11.283	1.00 72.53	A16S
ATOM	1311	O5*	G	A	66	102.162	45.733	11.114	1.00 81.09	A16S
ATOM	1312	C5*	G	A	66	100.854	45.871	10.521	1.00 81.09	A16S
ATOM	1313	C4*	G	A	66	100.789	45.103	9.226	1.00 81.09	A16S
ATOM	1314	O4*	G	A	66	101.806	45.631	8.338	1.00 81.09	A16S
ATOM	1315	C1*	G	A	66	102.498	44.570	7.697	1.00 81.09	A16S
ATOM	1316	N9	G	A	66	103.828	44.504	8.302	1.00 72.53	A16S
ATOM	1317	C4	G	A	66	104.782	43.535	8.112	1.00 72.53	A16S
ATOM	1318	N3	G	A	66	104.680	42.473	7.290	1.00 72.53	A16S
ATOM	1319	C2	G	A	66	105.745	41.687	7.371	1.00 72.53	A16S
ATOM	1320	N2	G	A	66	105.807	40.579	6.625	1.00 72.53	A16S
ATOM	1321	N1	G	A	66	106.824	41.929	8.191	1.00 72.53	A16S
ATOM	1322	C6	G	A	66	106.950	43.024	9.042	1.00 72.53	A16S
ATOM	1323	O6	G	A	66	107.963	43.153	9.753	1.00 72.53	A16S
ATOM	1324	C5	G	A	66	105.819	43.871	8.964	1.00 72.53	A16S
ATOM	1325	N7	G	A	66	105.537	45.044	9.645	1.00 72.53	A16S
ATOM	1326	C8	G	A	66	104.355	45.387	9.216	1.00 72.53	A16S
ATOM	1327	C2*	G	A	66	101.689	43.302	7.973	1.00 81.09	A16S
ATOM	1328	O2*	G	A	66	100.685	43.131	6.988	1.00 81.09	A16S
ATOM	1329	C3*	G	A	66	101.104	43.621	9.341	1.00 81.09	A16S
ATOM	1330	O3*	G	A	66	99.956	42.842	9.656	1.00 81.09	A16S
ATOM	1331	P	C	A	67	100.084	41.619	10.703	1.00 88.99	A16S
ATOM	1332	O1P	C	A	67	98.724	40.999	10.765	1.00 58.47	A16S
ATOM	1333	O2P	C	A	67	100.736	42.104	11.957	1.00 58.47	A16S
ATOM	1334	O5*	C	A	67	101.081	40.593	10.001	1.00 88.99	A16S
ATOM	1335	C5*	C	A	67	100.755	40.015	8.735	1.00 88.99	A16S
ATOM	1336	C4*	C	A	67	101.703	38.889	8.415	1.00 88.99	A16S
ATOM	1337	O4*	C	A	67	103.023	39.400	8.096	1.00 88.99	A16S
ATOM	1338	C1*	C	A	67	103.998	38.429	8.440	1.00 88.99	A16S
ATOM	1339	N1	C	A	67	105.008	39.028	9.333	1.00 58.47	A16S
ATOM	1340	C6	C	A	67	104.727	40.128	10.090	1.00 58.47	A16S
ATOM	1341	C2	C	A	67	106.283	38.434	9.398	1.00 58.47	A16S
ATOM	1342	O2	C	A	67	106.513	37.425	8.706	1.00 58.47	A16S
ATOM	1343	N3	C	A	67	107.226	38.968	10.213	1.00 58.47	A16S
ATOM	1344	C4	C	A	67	106.934	40.037	10.950	1.00 58.47	A16S
ATOM	1345	N4	C	A	67	107.885	40.524	11.748	1.00 58.47	A16S
ATOM	1346	C5	C	A	67	105.651	40.657	10.907	1.00 58.47	A16S
ATOM	1347	C2*	C	A	67	103.277	37.239	9.070	1.00 88.99	A16S
ATOM	1348	O2*	C	A	67	103.104	36.265	8.066	1.00 88.99	A16S
ATOM	1349	C3*	C	A	67	101.956	37.866	9.511	1.00 88.99	A16S
ATOM	1350	O3*	C	A	67	100.901	36.907	9.581	1.00 88.99	A16S
ATOM	1351	P	G	A	68	100.661	36.067	10.938	1.00 83.67	A16S
ATOM	1352	O1P	G	A	68	99.309	35.460	10.773	1.00 57.07	A16S
ATOM	1353	O2P	G	A	68	100.972	36.883	12.150	1.00 57.07	A16S
ATOM	1354	O5*	G	A	68	101.744	34.903	10.853	1.00 83.67	A16S
ATOM	1355	C5*	G	A	68	101.677	33.935	9.804	1.00 83.67	A16S
ATOM	1356	C4*	G	A	68	102.981	33.200	9.691	1.00 83.67	A16S
ATOM	1357	O4*	G	A	68	104.054	34.130	9.397	1.00 83.67	A16S
ATOM	1358	C1*	G	A	68	105.283	33.589	9.846	1.00 83.67	A16S
ATOM	1359	N9	G	A	68	105.976	34.543	10.712	1.00 57.07	A16S
ATOM	1360	C4	G	A	68	107.328	34.551	10.966	1.00 57.07	A16S
ATOM	1361	N3	G	A	68	108.232	33.696	10.448	1.00 57.07	A16S
ATOM	1362	C2	G	A	68	109.455	33.921	10.909	1.00 57.07	A16S
ATOM	1363	N2	G	A	68	110.471	33.130	10.520	1.00 57.07	A16S
ATOM	1364	N1	G	A	68	109.770	34.928	11.794	1.00 57.07	A16S
ATOM	1365	C6	G	A	68	108.856	35.828	12.336	1.00 57.07	A16S
ATOM	1366	O6	G	A	68	109.249	36.696	13.131	1.00 57.07	A16S
ATOM	1367	C5	G	A	68	107.530	35.582	11.857	1.00 57.07	A16S
ATOM	1368	N7	G	A	68	106.336	36.222	12.145	1.00 57.07	A16S
ATOM	1369	C8	G	A	68	105.441	35.576	11.442	1.00 57.07	A16S
ATOM	1370	C2*	G	A	68	104.960	32.291	10.571	1.00 83.67	A16S
ATOM	1371	O2*	G	A	68	105.141	31.241	9.643	1.00 83.67	A16S
ATOM	1372	C3*	G	A	68	103.492	32.486	10.924	1.00 83.67	A16S
ATOM	1373	O3*	G	A	68	102.829	31.252	11.135	1.00 83.67	A16S
ATOM	1374	P	G	A	69	103.214	30.346	12.412	1.00 88.98	A16S
ATOM	1375	O1P	G	A	69	102.369	29.131	12.299	1.00 72.81	A16S
ATOM	1376	O2P	G	A	69	103.172	31.148	13.658	1.00 72.81	A16S
ATOM	1377	O5*	G	A	69	104.729	29.938	12.130	1.00 88.98	A16S
ATOM	1378	C5*	G	A	69	105.613	29.541	13.187	1.00 88.98	A16S
ATOM	1379	C4*	G	A	69	107.032	29.506	12.677	1.00 88.98	A16S



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ATOM	1380	O4*	G	A	69	107.388	30.843	12.238	1.00	88.98	A16S
ATOM	1381	C1*	G	A	69	108.735	31.135	12.586	1.00	88.98	A16S
ATOM	1382	N9	G	A	69	108.728	32.260	13.520	1.00	72.81	A16S
ATOM	1383	C4	G	A	69	109.812	32.797	14.183	1.00	72.81	A16S
ATOM	1384	N3	G	A	69	111.096	32.395	14.070	1.00	72.81	A16S
ATOM	1385	C2	G	A	69	111.904	33.097	14.855	1.00	72.81	A16S
ATOM	1386	N2	G	A	69	113.218	32.837	14.873	1.00	72.81	A16S
ATOM	1387	N1	G	A	69	111.484	34.107	15.681	1.00	72.81	A16S
ATOM	1388	C6	G	A	69	110.168	34.539	15.810	1.00	72.81	A16S
ATOM	1389	O6	G	A	69	109.892	35.463	16.589	1.00	72.81	A16S
ATOM	1390	C5	G	A	69	109.293	33.803	14.974	1.00	72.81	A16S
ATOM	1391	N7	G	A	69	107.922	33.916	14.794	1.00	72.81	A16S
ATOM	1392	C8	G	A	69	107.631	32.986	13.926	1.00	72.81	A16S
ATOM	1393	C2*	G	A	69	109.335	29.865	13.187	1.00	88.98	A16S
ATOM	1394	O2*	G	A	69	110.049	29.184	12.169	1.00	88.98	A16S
ATOM	1395	C3*	G	A	69	108.083	29.155	13.716	1.00	88.98	A16S
ATOM	1396	O3*	G	A	69	108.211	27.741	13.921	1.00	88.98	A16S
ATOM	1397	P	G	A	70	108.567	27.178	15.398	1.00	90.37	A16S
ATOM	1398	O1P	G	A	70	108.325	25.711	15.392	1.00	74.86	A16S
ATOM	1399	O2P	G	A	70	107.892	28.030	16.426	1.00	74.86	A16S
ATOM	1400	O5*	G	A	70	110.143	27.387	15.515	1.00	90.37	A16S
ATOM	1401	C5*	G	A	70	111.033	26.788	14.553	1.00	90.37	A16S
ATOM	1402	C4*	G	A	70	112.465	27.065	14.925	1.00	90.37	A16S
ATOM	1403	O4*	G	A	70	112.766	28.471	14.730	1.00	90.37	A16S
ATOM	1404	C1*	G	A	70	113.618	28.933	15.770	1.00	90.37	A16S
ATOM	1405	N9	G	A	70	112.886	29.942	16.535	1.00	74.86	A16S
ATOM	1406	C4	G	A	70	113.418	30.873	17.397	1.00	74.86	A16S
ATOM	1407	N3	G	A	70	114.724	31.002	17.724	1.00	74.86	A16S
ATOM	1408	C2	G	A	70	114.925	32.005	18.566	1.00	74.86	A16S
ATOM	1409	N2	G	A	70	116.166	32.282	19.009	1.00	74.86	A16S
ATOM	1410	N1	G	A	70	113.925	32.817	19.038	1.00	74.86	A16S
ATOM	1411	C6	G	A	70	112.578	32.708	18.704	1.00	74.86	A16S
ATOM	1412	O6	G	A	70	111.758	33.515	19.163	1.00	74.86	A16S
ATOM	1413	C5	G	A	70	112.345	31.630	17.823	1.00	74.86	A16S
ATOM	1414	N7	G	A	70	111.160	31.166	17.270	1.00	74.86	A16S
ATOM	1415	C8	G	A	70	111.527	30.164	16.520	1.00	74.86	A16S
ATOM	1416	C2*	G	A	70	113.987	27.721	16.621	1.00	90.37	A16S
ATOM	1417	O2*	G	A	70	115.180	27.123	16.153	1.00	90.37	A16S
ATOM	1418	C3*	G	A	70	112.782	26.829	16.386	1.00	90.37	A16S
ATOM	1419	O3*	G	A	70	113.015	25.478	16.698	1.00	90.37	A16S
ATOM	1420	P	C	A	73	112.513	24.918	18.115	1.00	85.24	A16S
ATOM	1421	O1P	C	A	73	112.696	23.443	18.050	1.00	87.27	A16S
ATOM	1422	O2P	C	A	73	111.158	25.490	18.407	1.00	87.27	A16S
ATOM	1423	O5*	C	A	73	113.557	25.536	19.151	1.00	85.24	A16S
ATOM	1424	C5*	C	A	73	114.971	25.356	18.962	1.00	85.24	A16S
ATOM	1425	C4*	C	A	73	115.745	26.288	19.867	1.00	85.24	A16S
ATOM	1426	O4*	C	A	73	115.556	27.669	19.455	1.00	85.24	A16S
ATOM	1427	C1*	C	A	73	115.535	28.517	20.596	1.00	85.24	A16S
ATOM	1428	N1	C	A	73	114.198	29.140	20.690	1.00	87.27	A16S
ATOM	1429	C6	C	A	73	113.120	28.589	20.050	1.00	87.27	A16S
ATOM	1430	C2	C	A	73	114.040	30.304	21.459	1.00	87.27	A16S
ATOM	1431	O2	C	A	73	115.031	30.787	22.034	1.00	87.27	A16S
ATOM	1432	N3	C	A	73	112.813	30.868	21.560	1.00	87.27	A16S
ATOM	1433	C4	C	A	73	111.770	30.313	20.936	1.00	87.27	A16S
ATOM	1434	N4	C	A	73	110.577	30.894	21.068	1.00	87.27	A16S
ATOM	1435	C5	C	A	73	111.903	29.134	20.147	1.00	87.27	A16S
ATOM	1436	C2*	C	A	73	115.822	27.643	21.815	1.00	85.24	A16S
ATOM	1437	O2*	C	A	73	117.208	27.672	22.108	1.00	85.24	A16S
ATOM	1438	C3*	C	A	73	115.328	26.287	21.325	1.00	85.24	A16S
ATOM	1439	O3*	C	A	73	115.842	25.186	22.045	1.00	85.24	A16S
ATOM	1440	P	C	A	74	114.953	24.539	23.213	1.00	109.27	A16S
ATOM	1441	O1P	C	A	74	115.670	23.313	23.618	1.00	78.10	A16S
ATOM	1442	O2P	C	A	74	113.530	24.447	22.776	1.00	78.10	A16S
ATOM	1443	O5*	C	A	74	115.049	25.622	24.377	1.00	109.27	A16S
ATOM	1444	C5*	C	A	74	116.331	26.018	24.887	1.00	109.27	A16S
ATOM	1445	C4*	C	A	74	116.178	27.073	25.954	1.00	109.27	A16S
ATOM	1446	O4*	C	A	74	115.871	28.362	25.362	1.00	109.27	A16S
ATOM	1447	C1*	C	A	74	115.007	29.087	26.225	1.00	109.27	A16S
ATOM	1448	N1	C	A	74	113.720	29.272	25.533	1.00	78.10	A16S
ATOM	1449	C6	C	A	74	113.337	28.422	24.531	1.00	78.10	A16S
ATOM	1450	C2	C	A	74	112.876	30.325	25.929	1.00	78.10	A16S
ATOM	1451	O2	C	A	74	113.250	31.090	26.831	1.00	78.10	A16S
ATOM	1452	N3	C	A	74	111.675	30.475	25.320	1.00	78.10	A16S
ATOM	1453	C4	C	A	74	111.301	29.620	24.362	1.00	78.10	A16S
ATOM	1454	N4	C	A	74	110.084	29.772	23.814	1.00	78.10	A16S
ATOM	1455	C5	C	A	74	112.150	28.556	23.928	1.00	78.10	A16S
ATOM	1456	C2*	C	A	74	114.810	28.250	27.489	1.00	109.27	A16S



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ATOM	1457	O2*	C	A	74	115.732	28.646	28.486	1.00109.27	A16S
ATOM	1458	C3*	C	A	74	115.065	26.845	26.959	1.00109.27	A16S
ATOM	1459	O3*	C	A	74	115.417	25.922	27.969	1.00109.27	A16S
ATOM	1460	P	G	A	75	114.279	24.988	28.607	1.00106.69	A16S
ATOM	1461	O1P	G	A	75	115.012	24.256	29.673	1.00 79.39	A16S
ATOM	1462	O2P	G	A	75	113.562	24.226	27.547	1.00 79.39	A16S
ATOM	1463	O5*	G	A	75	113.260	26.026	29.270	1.00106.69	A16S
ATOM	1464	C5*	G	A	75	113.692	26.811	30.391	1.00106.69	A16S
ATOM	1465	C4*	G	A	75	112.613	27.752	30.888	1.00106.69	A16S
ATOM	1466	O4*	G	A	75	112.385	28.844	29.965	1.00106.69	A16S
ATOM	1467	C1*	G	A	75	111.147	29.459	30.279	1.00106.69	A16S
ATOM	1468	N9	G	A	75	110.270	29.448	29.116	1.00 79.39	A16S
ATOM	1469	C4	G	A	75	109.192	30.280	28.926	1.00 79.39	A16S
ATOM	1470	N3	G	A	75	108.806	31.273	29.754	1.00 79.39	A16S
ATOM	1471	C2	G	A	75	107.705	31.860	29.336	1.00 79.39	A16S
ATOM	1472	N2	G	A	75	107.173	32.850	30.056	1.00 79.39	A16S
ATOM	1473	N1	G	A	75	107.039	31.513	28.185	1.00 79.39	A16S
ATOM	1474	C6	G	A	75	107.415	30.494	27.315	1.00 79.39	A16S
ATOM	1475	O6	G	A	75	106.732	30.254	26.310	1.00 79.39	A16S
ATOM	1476	C5	G	A	75	108.597	29.848	27.759	1.00 79.39	A16S
ATOM	1477	N7	G	A	75	109.306	28.787	27.208	1.00 79.39	A16S
ATOM	1478	C8	G	A	75	110.296	28.592	28.039	1.00 79.39	A16S
ATOM	1479	C2*	G	A	75	110.490	28.619	31.369	1.00106.69	A16S
ATOM	1480	O2*	G	A	75	110.753	29.251	32.602	1.00106.69	A16S
ATOM	1481	C3*	G	A	75	111.207	27.280	31.217	1.00106.69	A16S
ATOM	1482	O3*	G	A	75	111.113	26.542	32.429	1.00106.69	A16S
ATOM	1483	P	C	A	76	109.740	25.765	32.789	1.00 95.78	A16S
ATOM	1484	O1P	C	A	76	109.997	25.072	34.080	1.00 79.87	A16S
ATOM	1485	O2P	C	A	76	109.248	24.977	31.623	1.00 79.87	A16S
ATOM	1486	O5*	C	A	76	108.680	26.931	33.053	1.00 95.78	A16S
ATOM	1487	C5*	C	A	76	108.814	27.803	34.194	1.00 95.78	A16S
ATOM	1488	C4*	C	A	76	107.687	28.817	34.243	1.00 95.78	A16S
ATOM	1489	O4*	C	A	76	107.739	29.702	33.090	1.00 95.78	A16S
ATOM	1490	C1*	C	A	76	106.424	30.105	32.739	1.00 95.78	A16S
ATOM	1491	N1	C	A	76	106.111	29.582	31.398	1.00 79.87	A16S
ATOM	1492	C6	C	A	76	106.815	28.536	30.868	1.00 79.87	A16S
ATOM	1493	C2	C	A	76	105.052	30.154	30.684	1.00 79.87	A16S
ATOM	1494	O2	C	A	76	104.459	31.131	31.165	1.00 79.87	A16S
ATOM	1495	N3	C	A	76	104.705	29.632	29.489	1.00 79.87	A16S
ATOM	1496	C4	C	A	76	105.383	28.595	28.993	1.00 79.87	A16S
ATOM	1497	N4	C	A	76	104.998	28.104	27.814	1.00 79.87	A16S
ATOM	1498	C5	C	A	76	106.487	28.015	29.683	1.00 79.87	A16S
ATOM	1499	C2*	C	A	76	105.470	29.486	33.758	1.00 95.78	A16S
ATOM	1500	O2*	C	A	76	105.203	30.412	34.792	1.00 95.78	A16S
ATOM	1501	C3*	C	A	76	106.271	28.279	34.220	1.00 95.78	A16S
ATOM	1502	O3*	C	A	76	105.839	27.782	35.469	1.00 95.78	A16S
ATOM	1503	P	G	A	77	104.799	26.557	35.499	1.00 76.72	A16S
ATOM	1504	O1P	G	A	77	104.783	26.027	36.888	1.00 78.45	A16S
ATOM	1505	O2P	G	A	77	105.102	25.637	34.364	1.00 78.45	A16S
ATOM	1506	O5*	G	A	77	103.401	27.244	35.182	1.00 76.72	A16S
ATOM	1507	C5*	G	A	77	102.950	28.366	35.941	1.00 76.72	A16S
ATOM	1508	C4*	G	A	77	101.703	28.934	35.324	1.00 76.72	A16S
ATOM	1509	O4*	G	A	77	102.026	29.608	34.082	1.00 76.72	A16S
ATOM	1510	C1*	G	A	77	100.948	29.460	33.166	1.00 76.72	A16S
ATOM	1511	N9	G	A	77	101.415	28.733	31.988	1.00 78.45	A16S
ATOM	1512	C4	G	A	77	100.735	28.608	30.805	1.00 78.45	A16S
ATOM	1513	N3	G	A	77	99.561	29.190	30.508	1.00 78.45	A16S
ATOM	1514	C2	G	A	77	99.143	28.868	29.300	1.00 78.45	A16S
ATOM	1515	N2	G	A	77	98.015	29.396	28.837	1.00 78.45	A16S
ATOM	1516	N1	G	A	77	99.809	28.011	28.455	1.00 78.45	A16S
ATOM	1517	C6	G	A	77	101.019	27.389	28.748	1.00 78.45	A16S
ATOM	1518	O6	G	A	77	101.525	26.612	27.935	1.00 78.45	A16S
ATOM	1519	C5	G	A	77	101.499	27.762	30.030	1.00 78.45	A16S
ATOM	1520	N7	G	A	77	102.666	27.405	30.693	1.00 78.45	A16S
ATOM	1521	C8	G	A	77	102.577	28.008	31.848	1.00 78.45	A16S
ATOM	1522	C2*	G	A	77	99.855	28.658	33.867	1.00 76.72	A16S
ATOM	1523	O2*	G	A	77	98.900	29.527	34.443	1.00 76.72	A16S
ATOM	1524	C3*	G	A	77	100.658	27.913	34.919	1.00 76.72	A16S
ATOM	1525	O3*	G	A	77	99.846	27.491	35.983	1.00 76.72	A16S
ATOM	1526	P	G	A	78	99.071	26.097	35.859	1.00 72.94	A16S
ATOM	1527	O1P	G	A	78	98.372	25.902	37.160	1.00 74.94	A16S
ATOM	1528	O2P	G	A	78	100.024	25.064	35.369	1.00 74.94	A16S
ATOM	1529	O5*	G	A	78	97.968	26.359	34.741	1.00 72.94	A16S
ATOM	1530	C5*	G	A	78	96.950	27.336	34.968	1.00 72.94	A16S
ATOM	1531	C4*	G	A	78	95.978	27.369	33.821	1.00 72.94	A16S
ATOM	1532	O4*	G	A	78	96.640	27.839	32.623	1.00 72.94	A16S
ATOM	1533	C1*	G	A	78	96.074	27.211	31.488	1.00 72.94	A16S



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ATOM	1534	N9	G	A	78	97.127	26.449	30.822	1.00	74.94	A16S
ATOM	1535	C4	G	A	78	97.098	25.969	29.533	1.00	74.94	A16S
ATOM	1536	N3	G	A	78	96.101	26.148	28.643	1.00	74.94	A16S
ATOM	1537	C2	G	A	78	96.346	25.545	27.498	1.00	74.94	A16S
ATOM	1538	N2	G	A	78	95.450	25.625	26.507	1.00	74.94	A16S
ATOM	1539	N1	G	A	78	97.481	24.817	27.245	1.00	74.94	A16S
ATOM	1540	C6	G	A	78	98.515	24.612	28.153	1.00	74.94	A16S
ATOM	1541	O6	G	A	78	99.485	23.913	27.840	1.00	74.94	A16S
ATOM	1542	C5	G	A	78	98.270	25.267	29.378	1.00	74.94	A16S
ATOM	1543	N7	G	A	78	99.041	25.330	30.532	1.00	74.94	A16S
ATOM	1544	C8	G	A	78	98.326	26.043	31.359	1.00	74.94	A16S
ATOM	1545	C2*	G	A	78	94.935	26.315	31.978	1.00	72.94	A16S
ATOM	1546	O2*	G	A	78	93.701	27.010	31.871	1.00	72.94	A16S
ATOM	1547	C3*	G	A	78	95.358	26.048	33.420	1.00	72.94	A16S
ATOM	1548	O3*	G	A	78	94.276	25.701	34.272	1.00	72.94	A16S
ATOM	1549	P	G	A	79	93.631	24.237	34.169	1.00	82.95	A16S
ATOM	1550	O1P	G	A	79	94.741	23.247	34.170	1.00	73.43	A16S
ATOM	1551	O2P	G	A	79	92.556	24.140	35.186	1.00	73.43	A16S
ATOM	1552	O5*	G	A	79	92.954	24.261	32.731	1.00	82.95	A16S
ATOM	1553	C5*	G	A	79	92.689	23.054	32.008	1.00	82.95	A16S
ATOM	1554	C4*	G	A	79	92.302	23.391	30.591	1.00	82.95	A16S
ATOM	1555	O4*	G	A	79	93.422	24.034	29.926	1.00	82.95	A16S
ATOM	1556	C1*	G	A	79	93.487	23.613	28.573	1.00	82.95	A16S
ATOM	1557	N9	G	A	79	94.749	22.894	28.394	1.00	73.43	A16S
ATOM	1558	C4	G	A	79	95.122	22.150	27.301	1.00	73.43	A16S
ATOM	1559	N3	G	A	79	94.393	21.969	26.183	1.00	73.43	A16S
ATOM	1560	C2	G	A	79	95.014	21.192	25.319	1.00	73.43	A16S
ATOM	1561	N2	G	A	79	94.445	20.923	24.139	1.00	73.43	A16S
ATOM	1562	N1	G	A	79	96.242	20.624	25.544	1.00	73.43	A16S
ATOM	1563	C6	G	A	79	97.002	20.790	26.691	1.00	73.43	A16S
ATOM	1564	O6	G	A	79	98.087	20.215	26.802	1.00	73.43	A16S
ATOM	1565	C5	G	A	79	96.365	21.636	27.613	1.00	73.43	A16S
ATOM	1566	N7	G	A	79	96.780	22.068	28.863	1.00	73.43	A16S
ATOM	1567	C8	G	A	79	95.793	22.809	29.290	1.00	73.43	A16S
ATOM	1568	C2*	G	A	79	92.252	22.741	28.310	1.00	82.95	A16S
ATOM	1569	O2*	G	A	79	91.201	23.540	27.787	1.00	82.95	A16S
ATOM	1570	C3*	G	A	79	91.956	22.209	29.709	1.00	82.95	A16S
ATOM	1571	O3*	G	A	79	90.604	21.838	29.893	1.00	82.95	A16S
ATOM	1572	P	G	A	80	90.239	20.308	30.188	1.00	90.84	A16S
ATOM	1573	O1P	G	A	80	88.791	20.308	30.495	1.00	71.01	A16S
ATOM	1574	O2P	G	A	80	91.196	19.731	31.157	1.00	71.01	A16S
ATOM	1575	O5*	G	A	80	90.451	19.589	28.787	1.00	90.84	A16S
ATOM	1576	C5*	G	A	80	89.507	19.792	27.732	1.00	90.84	A16S
ATOM	1577	C4*	G	A	80	89.868	18.963	26.529	1.00	90.84	A16S
ATOM	1578	O4*	G	A	80	91.099	19.468	25.949	1.00	90.84	A16S
ATOM	1579	C1*	G	A	80	91.803	18.405	25.332	1.00	90.84	A16S
ATOM	1580	N9	G	A	80	93.116	18.293	25.963	1.00	71.01	A16S
ATOM	1581	C4	G	A	80	94.226	17.664	25.443	1.00	71.01	A16S
ATOM	1582	N3	G	A	80	94.308	17.068	24.236	1.00	71.01	A16S
ATOM	1583	C2	G	A	80	95.503	16.536	24.034	1.00	71.01	A16S
ATOM	1584	N2	G	A	80	95.769	15.909	22.881	1.00	71.01	A16S
ATOM	1585	N1	G	A	80	96.527	16.581	24.944	1.00	71.01	A16S
ATOM	1586	C6	G	A	80	96.462	17.192	26.186	1.00	71.01	A16S
ATOM	1587	O6	G	A	80	97.444	17.177	26.929	1.00	71.01	A16S
ATOM	1588	C5	G	A	80	95.196	17.772	26.416	1.00	71.01	A16S
ATOM	1589	N7	G	A	80	94.721	18.474	27.509	1.00	71.01	A16S
ATOM	1590	C8	G	A	80	93.487	18.766	27.197	1.00	71.01	A16S
ATOM	1591	C2*	G	A	80	90.963	17.133	25.504	1.00	90.84	A16S
ATOM	1592	O2*	G	A	80	90.186	16.933	24.335	1.00	90.84	A16S
ATOM	1593	C3*	G	A	80	90.123	17.475	26.737	1.00	90.84	A16S
ATOM	1594	O3*	G	A	80	88.913	16.703	26.863	1.00	90.84	A16S
ATOM	1595	P	U	A	81	88.951	15.202	27.467	1.00	170.53	A16S
ATOM	1596	O1P	U	A	81	89.492	14.321	26.402	1.00	180.01	A16S
ATOM	1597	O2P	U	A	81	87.608	14.929	28.026	1.00	180.01	A16S
ATOM	1598	O5*	U	A	81	89.967	15.202	28.702	1.00	170.53	A16S
ATOM	1599	C5*	U	A	81	91.354	15.599	28.556	1.00	170.53	A16S
ATOM	1600	C4*	U	A	81	92.239	14.422	28.163	1.00	170.53	A16S
ATOM	1601	O4*	U	A	81	93.545	14.950	27.801	1.00	170.53	A16S
ATOM	1602	C1*	U	A	81	94.565	14.066	28.236	1.00	170.53	A16S
ATOM	1603	N1	U	A	81	95.485	14.812	29.116	1.00	180.01	A16S
ATOM	1604	C6	U	A	81	95.008	15.687	30.077	1.00	180.01	A16S
ATOM	1605	C2	U	A	81	96.857	14.625	28.943	1.00	180.01	A16S
ATOM	1606	O2	U	A	81	97.335	13.847	28.128	1.00	180.01	A16S
ATOM	1607	N3	U	A	81	97.651	15.387	29.765	1.00	180.01	A16S
ATOM	1608	C4	U	A	81	97.236	16.290	30.724	1.00	180.01	A16S
ATOM	1609	O4	U	A	81	98.080	16.953	31.331	1.00	180.01	A16S
ATOM	1610	C5	U	A	81	95.815	16.409	30.862	1.00	180.01	A16S



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ATOM	1611	C2*	U	A	81	93.899	12.835	28.863	1.00170.53	A16S
ATOM	1612	O2*	U	A	81	93.857	11.780	27.917	1.00170.53	A16S
ATOM	1613	C3*	U	A	81	92.514	13.368	29.236	1.00170.53	A16S
ATOM	1614	O3*	U	A	81	91.561	12.302	29.182	1.00170.53	A16S
ATOM	1615	P	U	A	82	90.693	11.930	30.484	1.00 91.56	A16S
ATOM	1616	O1P	U	A	82	90.090	10.581	30.254	1.00 96.85	A16S
ATOM	1617	O2P	U	A	82	89.795	13.109	30.742	1.00 96.85	A16S
ATOM	1618	O5*	U	A	82	91.766	11.797	31.663	1.00 91.56	A16S
ATOM	1619	C5*	U	A	82	91.446	12.207	33.016	1.00 91.56	A16S
ATOM	1620	C4*	U	A	82	92.099	11.285	34.025	1.00 91.56	A16S
ATOM	1621	O4*	U	A	82	91.490	9.966	33.978	1.00 91.56	A16S
ATOM	1622	C1*	U	A	82	92.472	8.974	34.252	1.00 91.56	A16S
ATOM	1623	N1	U	A	82	92.506	8.010	33.134	1.00 96.85	A16S
ATOM	1624	C6	U	A	82	91.721	8.182	32.017	1.00 96.85	A16S
ATOM	1625	C2	U	A	82	93.367	6.922	33.231	1.00 96.85	A16S
ATOM	1626	O2	U	A	82	94.067	6.705	34.207	1.00 96.85	A16S
ATOM	1627	N3	U	A	82	93.376	6.094	32.139	1.00 96.85	A16S
ATOM	1628	C4	U	A	82	92.629	6.224	30.992	1.00 96.85	A16S
ATOM	1629	O4	U	A	82	92.767	5.405	30.085	1.00 96.85	A16S
ATOM	1630	C5	U	A	82	91.753	7.350	30.975	1.00 96.85	A16S
ATOM	1631	C2*	U	A	82	93.806	9.690	34.501	1.00 91.56	A16S
ATOM	1632	O2*	U	A	82	94.052	9.799	35.886	1.00 91.56	A16S
ATOM	1633	C3*	U	A	82	93.581	11.036	33.817	1.00 91.56	A16S
ATOM	1634	O3*	U	A	82	94.370	12.085	34.364	1.00 91.56	A16S
ATOM	1635	P	U	A	83	95.475	12.808	33.444	1.00106.80	A16S
ATOM	1636	O1P	U	A	83	95.933	14.025	34.172	1.00 90.24	A16S
ATOM	1637	O2P	U	A	83	94.918	12.943	32.071	1.00 90.24	A16S
ATOM	1638	O5*	U	A	83	96.670	11.760	33.398	1.00106.80	A16S
ATOM	1639	C5*	U	A	83	97.272	11.320	34.615	1.00106.80	A16S
ATOM	1640	C4*	U	A	83	98.070	10.063	34.394	1.00106.80	A16S
ATOM	1641	O4*	U	A	83	97.203	8.948	34.064	1.00106.80	A16S
ATOM	1642	C1*	U	A	83	97.900	8.037	33.227	1.00106.80	A16S
ATOM	1643	N1	U	A	83	97.152	7.864	31.971	1.00 90.24	A16S
ATOM	1644	C6	U	A	83	95.964	8.519	31.748	1.00 90.24	A16S
ATOM	1645	C2	U	A	83	97.678	7.005	31.009	1.00 90.24	A16S
ATOM	1646	O2	U	A	83	98.742	6.400	31.153	1.00 90.24	A16S
ATOM	1647	N3	U	A	83	96.917	6.879	29.872	1.00 90.24	A16S
ATOM	1648	C4	U	A	83	95.718	7.502	29.598	1.00 90.24	A16S
ATOM	1649	O4	U	A	83	95.160	7.296	28.519	1.00 90.24	A16S
ATOM	1650	C5	U	A	83	95.250	8.369	30.630	1.00 90.24	A16S
ATOM	1651	C2*	U	A	83	99.304	8.599	33.011	1.00106.80	A16S
ATOM	1652	O2*	U	A	83	100.176	7.998	33.953	1.00106.80	A16S
ATOM	1653	C3*	U	A	83	99.083	10.085	33.269	1.00106.80	A16S
ATOM	1654	O3*	U	A	83	100.274	10.757	33.640	1.00106.80	A16S
ATOM	1655	P	U	A	84	100.967	11.756	32.594	1.00124.63	A16S
ATOM	1656	O1P	U	A	84	102.182	12.284	33.258	1.00 71.55	A16S
ATOM	1657	O2P	U	A	84	99.923	12.697	32.099	1.00 71.55	A16S
ATOM	1658	O5*	U	A	84	101.444	10.803	31.407	1.00124.63	A16S
ATOM	1659	C5*	U	A	84	102.555	9.904	31.602	1.00124.63	A16S
ATOM	1660	C4*	U	A	84	102.766	9.029	30.387	1.00124.63	A16S
ATOM	1661	O4*	U	A	84	101.610	8.175	30.188	1.00124.63	A16S
ATOM	1662	C1*	U	A	84	101.416	7.958	28.805	1.00124.63	A16S
ATOM	1663	N1	U	A	84	100.116	8.520	28.411	1.00 71.55	A16S
ATOM	1664	C6	U	A	84	99.454	9.469	29.173	1.00 71.55	A16S
ATOM	1665	C2	U	A	84	99.568	8.059	27.218	1.00 71.55	A16S
ATOM	1666	O2	U	A	84	100.136	7.237	26.499	1.00 71.55	A16S
ATOM	1667	N3	U	A	84	98.342	8.602	26.890	1.00 71.55	A16S
ATOM	1668	C4	U	A	84	97.627	9.543	27.604	1.00 71.55	A16S
ATOM	1669	O4	U	A	84	96.518	9.899	27.190	1.00 71.55	A16S
ATOM	1670	C5	U	A	84	98.264	9.985	28.817	1.00 71.55	A16S
ATOM	1671	C2*	U	A	84	102.556	8.648	28.062	1.00124.63	A16S
ATOM	1672	O2*	U	A	84	103.581	7.701	27.828	1.00124.63	A16S
ATOM	1673	C3*	U	A	84	102.948	9.734	29.053	1.00124.63	A16S
ATOM	1674	O3*	U	A	84	104.277	10.196	28.853	1.00124.63	A16S
ATOM	1675	P	A	A	88	104.526	11.601	28.101	1.00105.13	A16S
ATOM	1676	O1P	A	A	88	105.981	11.921	28.260	1.00 89.78	A16S
ATOM	1677	O2P	A	A	88	103.494	12.588	28.550	1.00 89.78	A16S
ATOM	1678	O5*	A	A	88	104.224	11.281	26.569	1.00105.13	A16S
ATOM	1679	C5*	A	A	88	104.929	10.242	25.884	1.00105.13	A16S
ATOM	1680	C4*	A	A	88	104.201	9.864	24.623	1.00105.13	A16S
ATOM	1681	O4*	A	A	88	102.914	9.289	24.961	1.00105.13	A16S
ATOM	1682	C1*	A	A	88	101.964	9.631	23.969	1.00105.13	A16S
ATOM	1683	N9	A	A	88	100.906	10.431	24.590	1.00 89.78	A16S
ATOM	1684	C4	A	A	88	99.668	10.682	24.045	1.00 89.78	A16S
ATOM	1685	N3	A	A	88	99.187	10.235	22.870	1.00 89.78	A16S
ATOM	1686	C2	A	A	88	97.957	10.703	22.656	1.00 89.78	A16S
ATOM	1687	N1	A	A	88	97.207	11.506	23.426	1.00 89.78	A16S



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ATOM	1688	C6	A	A	88	97.717	11.936	24.602	1.00	89.78	A16S
ATOM	1689	N6	A	A	88	96.967	12.735	25.366	1.00	89.78	A16S
ATOM	1690	C5	A	A	88	99.018	11.510	24.947	1.00	89.78	A16S
ATOM	1691	N7	A	A	88	99.825	11.767	26.047	1.00	89.78	A16S
ATOM	1692	C8	A	A	88	100.928	11.102	25.790	1.00	89.78	A16S
ATOM	1693	C2*	A	A	88	102.698	10.429	22.893	1.00	105.13	A16S
ATOM	1694	O2*	A	A	88	103.132	9.552	21.872	1.00	105.13	A16S
ATOM	1695	C3*	A	A	88	103.860	11.006	23.683	1.00	105.13	A16S
ATOM	1696	O3*	A	A	88	104.948	11.370	22.850	1.00	105.13	A16S
ATOM	1697	P	C	A	89	105.285	12.927	22.626	1.00	78.45	A16S
ATOM	1698	O1P	C	A	89	106.496	12.967	21.766	1.00	81.99	A16S
ATOM	1699	O2P	C	A	89	105.288	13.622	23.938	1.00	81.99	A16S
ATOM	1700	O5*	C	A	89	104.049	13.477	21.791	1.00	78.45	A16S
ATOM	1701	C5*	C	A	89	103.767	12.953	20.485	1.00	78.45	A16S
ATOM	1702	C4*	C	A	89	102.379	13.339	20.052	1.00	78.45	A16S
ATOM	1703	O4*	C	A	89	101.420	12.808	21.001	1.00	78.45	A16S
ATOM	1704	C1*	C	A	89	100.324	13.698	21.125	1.00	78.45	A16S
ATOM	1705	N1	C	A	89	100.252	14.197	22.512	1.00	81.99	A16S
ATOM	1706	C6	C	A	89	101.308	14.065	23.373	1.00	81.99	A16S
ATOM	1707	C2	C	A	89	99.074	14.836	22.933	1.00	81.99	A16S
ATOM	1708	O2	C	A	89	98.113	14.911	22.139	1.00	81.99	A16S
ATOM	1709	N3	C	A	89	99.011	15.349	24.193	1.00	81.99	A16S
ATOM	1710	C4	C	A	89	100.056	15.225	25.018	1.00	81.99	A16S
ATOM	1711	N4	C	A	89	99.955	15.749	26.245	1.00	81.99	A16S
ATOM	1712	C5	C	A	89	101.252	14.558	24.622	1.00	81.99	A16S
ATOM	1713	C2*	C	A	89	100.560	14.845	20.149	1.00	78.45	A16S
ATOM	1714	O2*	C	A	89	99.901	14.540	18.934	1.00	78.45	A16S
ATOM	1715	C3*	C	A	89	102.075	14.825	20.021	1.00	78.45	A16S
ATOM	1716	O3*	C	A	89	102.511	15.441	18.824	1.00	78.45	A16S
ATOM	1717	P	U	A	90	102.848	17.013	18.818	1.00	76.46	A16S
ATOM	1718	O1P	U	A	90	103.187	17.346	17.405	1.00	80.52	A16S
ATOM	1719	O2P	U	A	90	103.827	17.311	19.907	1.00	80.52	A16S
ATOM	1720	O5*	U	A	90	101.455	17.702	19.171	1.00	76.46	A16S
ATOM	1721	C5*	U	A	90	100.303	17.496	18.325	1.00	76.46	A16S
ATOM	1722	C4*	U	A	90	99.073	18.141	18.923	1.00	76.46	A16S
ATOM	1723	O4*	U	A	90	98.734	17.493	20.172	1.00	76.46	A16S
ATOM	1724	C1*	U	A	90	98.190	18.444	21.070	1.00	76.46	A16S
ATOM	1725	N1	U	A	90	99.059	18.534	22.256	1.00	80.52	A16S
ATOM	1726	C6	U	A	90	100.412	18.292	22.180	1.00	80.52	A16S
ATOM	1727	C2	U	A	90	98.471	18.882	23.463	1.00	80.52	A16S
ATOM	1728	O2	U	A	90	97.273	19.104	23.585	1.00	80.52	A16S
ATOM	1729	N3	U	A	90	99.338	18.964	24.523	1.00	80.52	A16S
ATOM	1730	C4	U	A	90	100.692	18.736	24.505	1.00	80.52	A16S
ATOM	1731	O4	U	A	90	101.333	18.846	25.545	1.00	80.52	A16S
ATOM	1732	C5	U	A	90	101.222	18.380	23.233	1.00	80.52	A16S
ATOM	1733	C2*	U	A	90	98.096	19.774	20.324	1.00	76.46	A16S
ATOM	1734	O2*	U	A	90	96.821	19.866	19.724	1.00	76.46	A16S
ATOM	1735	C3*	U	A	90	99.185	19.612	19.278	1.00	76.46	A16S
ATOM	1736	O3*	U	A	90	98.933	20.428	18.156	1.00	76.46	A16S
ATOM	1737	P	C	A	91	99.265	21.996	18.223	1.00	73.54	A16S
ATOM	1738	O1P	C	A	91	99.110	22.467	16.828	1.00	59.83	A16S
ATOM	1739	O2P	C	A	91	100.542	22.251	18.957	1.00	59.83	A16S
ATOM	1740	O5*	C	A	91	98.061	22.607	19.063	1.00	73.54	A16S
ATOM	1741	C5*	C	A	91	96.768	22.762	18.462	1.00	73.54	A16S
ATOM	1742	C4*	C	A	91	95.847	23.502	19.394	1.00	73.54	A16S
ATOM	1743	O4*	C	A	91	95.650	22.717	20.595	1.00	73.54	A16S
ATOM	1744	C1*	C	A	91	95.527	23.578	21.706	1.00	73.54	A16S
ATOM	1745	N1	C	A	91	96.643	23.324	22.611	1.00	59.83	A16S
ATOM	1746	C6	C	A	91	97.785	22.721	22.171	1.00	59.83	A16S
ATOM	1747	C2	C	A	91	96.528	23.740	23.941	1.00	59.83	A16S
ATOM	1748	O2	C	A	91	95.454	24.257	24.322	1.00	59.83	A16S
ATOM	1749	N3	C	A	91	97.577	23.574	24.778	1.00	59.83	A16S
ATOM	1750	C4	C	A	91	98.701	23.017	24.328	1.00	59.83	A16S
ATOM	1751	N4	C	A	91	99.728	22.915	25.173	1.00	59.83	A16S
ATOM	1752	C5	C	A	91	98.828	22.550	22.984	1.00	59.83	A16S
ATOM	1753	C2*	C	A	91	95.595	25.015	21.198	1.00	73.54	A16S
ATOM	1754	O2*	C	A	91	94.284	25.498	20.998	1.00	73.54	A16S
ATOM	1755	C3*	C	A	91	96.356	24.841	19.895	1.00	73.54	A16S
ATOM	1756	O3*	C	A	91	96.064	25.885	18.983	1.00	73.54	A16S
ATOM	1757	P	C	A	92	96.835	27.290	19.115	1.00	74.43	A16S
ATOM	1758	O1P	C	A	92	96.313	28.169	18.024	1.00	77.46	A16S
ATOM	1759	O2P	C	A	92	98.291	27.020	19.220	1.00	77.46	A16S
ATOM	1760	O5*	C	A	92	96.362	27.871	20.521	1.00	74.43	A16S
ATOM	1761	C5*	C	A	92	95.013	28.330	20.705	1.00	74.43	A16S
ATOM	1762	C4*	C	A	92	94.883	29.035	22.024	1.00	74.43	A16S
ATOM	1763	O4*	C	A	92	95.068	28.085	23.099	1.00	74.43	A16S
ATOM	1764	C1*	C	A	92	95.745	28.715	24.168	1.00	74.43	A16S



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ATOM	1765	N1	C	A	92	97.013	28.011	24.395	1.00	77.46	A16S
ATOM	1766	C6	C	A	92	97.547	27.195	23.438	1.00	77.46	A16S
ATOM	1767	C2	C	A	92	97.668	28.179	25.632	1.00	77.46	A16S
ATOM	1768	O2	C	A	92	97.197	28.960	26.456	1.00	77.46	A16S
ATOM	1769	N3	C	A	92	98.797	27.494	25.887	1.00	77.46	A16S
ATOM	1770	C4	C	A	92	99.294	26.677	24.960	1.00	77.46	A16S
ATOM	1771	N4	C	A	92	100.400	25.991	25.267	1.00	77.46	A16S
ATOM	1772	C5	C	A	92	98.674	26.516	23.673	1.00	77.46	A16S
ATOM	1773	C2*	C	A	92	95.968	30.176	23.789	1.00	74.43	A16S
ATOM	1774	O2*	C	A	92	94.908	30.975	24.267	1.00	74.43	A16S
ATOM	1775	C3*	C	A	92	95.931	30.102	22.279	1.00	74.43	A16S
ATOM	1776	O3*	C	A	92	95.586	31.357	21.736	1.00	74.43	A16S
ATOM	1777	P	G	A	93	96.730	32.460	21.540	1.00	72.33	A16S
ATOM	1778	O1P	G	A	93	96.122	33.568	20.772	1.00	82.86	A16S
ATOM	1779	O2P	G	A	93	97.942	31.789	21.033	1.00	82.86	A16S
ATOM	1780	O5*	G	A	93	97.075	32.951	23.010	1.00	72.33	A16S
ATOM	1781	C5*	G	A	93	96.098	33.622	23.796	1.00	72.33	A16S
ATOM	1782	C4*	G	A	93	96.637	33.879	25.174	1.00	72.33	A16S
ATOM	1783	O4*	G	A	93	96.873	32.618	25.859	1.00	72.33	A16S
ATOM	1784	C1*	G	A	93	97.971	32.759	26.751	1.00	72.33	A16S
ATOM	1785	N9	G	A	93	99.015	31.816	26.368	1.00	82.86	A16S
ATOM	1786	C4	G	A	93	100.088	31.441	27.142	1.00	82.86	A16S
ATOM	1787	N3	G	A	93	100.328	31.836	28.411	1.00	82.86	A16S
ATOM	1788	C2	G	A	93	101.458	31.334	28.881	1.00	82.86	A16S
ATOM	1789	N2	G	A	93	101.843	31.622	30.129	1.00	82.86	A16S
ATOM	1790	N1	G	A	93	102.294	30.515	28.162	1.00	82.86	A16S
ATOM	1791	C6	G	A	93	102.074	30.102	26.851	1.00	82.86	A16S
ATOM	1792	O6	G	A	93	102.910	29.382	26.278	1.00	82.86	A16S
ATOM	1793	C5	G	A	93	100.848	30.621	26.339	1.00	82.86	A16S
ATOM	1794	N7	G	A	93	100.243	30.448	25.099	1.00	82.86	A16S
ATOM	1795	C8	G	A	93	99.157	31.168	25.165	1.00	82.86	A16S
ATOM	1796	C2*	G	A	93	98.489	34.193	26.621	1.00	72.33	A16S
ATOM	1797	O2*	G	A	93	97.978	35.003	27.667	1.00	72.33	A16S
ATOM	1798	C3*	G	A	93	97.981	34.573	25.235	1.00	72.33	A16S
ATOM	1799	O3*	G	A	93	97.894	35.965	25.043	1.00	72.33	A16S
ATOM	1800	P	U	A	95	99.165	36.748	24.465	1.00	92.00	A16S
ATOM	1801	O1P	U	A	95	98.787	38.181	24.406	1.00	93.92	A16S
ATOM	1802	O2P	U	A	95	99.623	36.064	23.230	1.00	93.92	A16S
ATOM	1803	O5*	U	A	95	100.273	36.537	25.596	1.00	92.00	A16S
ATOM	1804	C5*	U	A	95	100.071	37.045	26.934	1.00	92.00	A16S
ATOM	1805	C4*	U	A	95	101.223	36.655	27.833	1.00	92.00	A16S
ATOM	1806	O4*	U	A	95	101.270	35.211	27.965	1.00	92.00	A16S
ATOM	1807	C1*	U	A	95	102.619	34.788	28.102	1.00	92.00	A16S
ATOM	1808	N1	U	A	95	102.961	33.882	26.993	1.00	93.92	A16S
ATOM	1809	C6	U	A	95	102.227	33.846	25.825	1.00	93.92	A16S
ATOM	1810	C2	U	A	95	104.064	33.058	27.161	1.00	93.92	A16S
ATOM	1811	O2	U	A	95	104.746	33.064	28.170	1.00	93.92	A16S
ATOM	1812	N3	U	A	95	104.343	32.233	26.101	1.00	93.92	A16S
ATOM	1813	C4	U	A	95	103.653	32.146	24.910	1.00	93.92	A16S
ATOM	1814	O4	U	A	95	104.002	31.312	24.066	1.00	93.92	A16S
ATOM	1815	C5	U	A	95	102.530	33.033	24.805	1.00	93.92	A16S
ATOM	1816	C2*	U	A	95	103.505	36.032	28.089	1.00	92.00	A16S
ATOM	1817	O2*	U	A	95	103.825	36.420	29.412	1.00	92.00	A16S
ATOM	1818	C3*	U	A	95	102.619	37.028	27.353	1.00	92.00	A16S
ATOM	1819	O3*	U	A	95	102.983	38.380	27.624	1.00	92.00	A16S
ATOM	1820	P	G	A	96	104.140	39.085	26.744	1.00	99.11	A16S
ATOM	1821	O1P	G	A	96	103.996	40.559	26.936	1.00	90.04	A16S
ATOM	1822	O2P	G	A	96	104.133	38.519	25.363	1.00	90.04	A16S
ATOM	1823	O5*	G	A	96	105.489	38.609	27.440	1.00	99.11	A16S
ATOM	1824	C5*	G	A	96	105.765	38.982	28.788	1.00	99.11	A16S
ATOM	1825	C4*	G	A	96	107.088	38.422	29.231	1.00	99.11	A16S
ATOM	1826	O4*	G	A	96	107.002	36.980	29.357	1.00	99.11	A16S
ATOM	1827	C1*	G	A	96	108.275	36.411	29.105	1.00	99.11	A16S
ATOM	1828	N9	G	A	96	108.174	35.446	28.012	1.00	90.04	A16S
ATOM	1829	C4	G	A	96	109.101	34.476	27.728	1.00	90.04	A16S
ATOM	1830	N3	G	A	96	110.244	34.250	28.415	1.00	90.04	A16S
ATOM	1831	C2	G	A	96	110.944	33.257	27.900	1.00	90.04	A16S
ATOM	1832	N2	G	A	96	112.113	32.911	28.461	1.00	90.04	A16S
ATOM	1833	N1	G	A	96	110.548	32.536	26.799	1.00	90.04	A16S
ATOM	1834	C6	G	A	96	109.373	32.752	26.078	1.00	90.04	A16S
ATOM	1835	O6	G	A	96	109.110	32.044	25.102	1.00	90.04	A16S
ATOM	1836	C5	G	A	96	108.617	33.819	26.618	1.00	90.04	A16S
ATOM	1837	N7	G	A	96	107.405	34.362	26.211	1.00	90.04	A16S
ATOM	1838	C8	G	A	96	107.178	35.321	27.068	1.00	90.04	A16S
ATOM	1839	C2*	G	A	96	109.235	37.551	28.768	1.00	99.11	A16S
ATOM	1840	O2*	G	A	96	109.945	37.918	29.935	1.00	99.11	A16S
ATOM	1841	C3*	G	A	96	108.271	38.636	28.307	1.00	99.11	A16S



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ATOM	1842	O3*	G	A	96	108.835	39.929	28.415	1.00	99.11	A16S
ATOM	1843	P	G	A	97	109.666	40.526	27.174	1.00	113.16	A16S
ATOM	1844	O1P	G	A	97	110.059	41.915	27.533	1.00	81.29	A16S
ATOM	1845	O2P	G	A	97	108.890	40.277	25.928	1.00	81.29	A16S
ATOM	1846	O5*	G	A	97	110.977	39.620	27.126	1.00	113.16	A16S
ATOM	1847	C5*	G	A	97	111.854	39.547	28.263	1.00	113.16	A16S
ATOM	1848	C4*	G	A	97	112.938	38.515	28.042	1.00	113.16	A16S
ATOM	1849	O4*	G	A	97	112.378	37.173	28.011	1.00	113.16	A16S
ATOM	1850	C1*	G	A	97	113.187	36.341	27.192	1.00	113.16	A16S
ATOM	1851	N9	G	A	97	112.375	35.797	26.106	1.00	81.29	A16S
ATOM	1852	C4	G	A	97	112.738	34.770	25.268	1.00	81.29	A16S
ATOM	1853	N3	G	A	97	113.891	34.073	25.329	1.00	81.29	A16S
ATOM	1854	C2	G	A	97	113.973	33.170	24.363	1.00	81.29	A16S
ATOM	1855	N2	G	A	97	115.074	32.401	24.265	1.00	81.29	A16S
ATOM	1856	N1	G	A	97	112.990	32.958	23.420	1.00	81.29	A16S
ATOM	1857	C6	G	A	97	111.797	33.666	23.339	1.00	81.29	A16S
ATOM	1858	O6	G	A	97	110.988	33.410	22.441	1.00	81.29	A16S
ATOM	1859	C5	G	A	97	111.700	34.644	24.368	1.00	81.29	A16S
ATOM	1860	N7	G	A	97	110.692	35.556	24.647	1.00	81.29	A16S
ATOM	1861	C8	G	A	97	111.132	36.213	25.689	1.00	81.29	A16S
ATOM	1862	C2*	G	A	97	114.322	37.206	26.639	1.00	113.16	A16S
ATOM	1863	O2*	G	A	97	115.483	37.053	27.431	1.00	113.16	A16S
ATOM	1864	C3*	G	A	97	113.729	38.603	26.751	1.00	113.16	A16S
ATOM	1865	O3*	G	A	97	114.725	39.610	26.764	1.00	113.16	A16S
ATOM	1866	P	U	A	98	115.031	40.422	25.410	1.00	94.41	A16S
ATOM	1867	O1P	U	A	98	116.026	41.474	25.768	1.00	74.34	A16S
ATOM	1868	O2P	U	A	98	113.737	40.817	24.766	1.00	74.34	A16S
ATOM	1869	O5*	U	A	98	115.748	39.344	24.484	1.00	94.41	A16S
ATOM	1870	C5*	U	A	98	117.032	38.829	24.850	1.00	94.41	A16S
ATOM	1871	C4*	U	A	98	117.418	37.688	23.951	1.00	94.41	A16S
ATOM	1872	O4*	U	A	98	116.442	36.623	24.087	1.00	94.41	A16S
ATOM	1873	C1*	U	A	98	116.303	35.943	22.853	1.00	94.41	A16S
ATOM	1874	N1	U	A	98	114.918	36.087	22.377	1.00	74.34	A16S
ATOM	1875	C6	U	A	98	114.094	37.081	22.845	1.00	74.34	A16S
ATOM	1876	C2	U	A	98	114.469	35.181	21.424	1.00	74.34	A16S
ATOM	1877	O2	U	A	98	115.173	34.290	20.966	1.00	74.34	A16S
ATOM	1878	N3	U	A	98	113.170	35.360	21.019	1.00	74.34	A16S
ATOM	1879	C4	U	A	98	112.294	36.328	21.448	1.00	74.34	A16S
ATOM	1880	O4	U	A	98	111.131	36.325	21.025	1.00	74.34	A16S
ATOM	1881	C5	U	A	98	112.836	37.231	22.423	1.00	74.34	A16S
ATOM	1882	C2*	U	A	98	117.284	36.577	21.874	1.00	94.41	A16S
ATOM	1883	O2*	U	A	98	118.497	35.854	21.911	1.00	94.41	A16S
ATOM	1884	C3*	U	A	98	117.434	37.970	22.461	1.00	94.41	A16S
ATOM	1885	O3*	U	A	98	118.619	38.603	22.009	1.00	94.41	A16S
ATOM	1886	P	C	A	99	118.589	39.417	20.618	1.00	92.63	A16S
ATOM	1887	O1P	C	A	99	119.904	40.121	20.490	1.00	75.55	A16S
ATOM	1888	O2P	C	A	99	117.315	40.194	20.550	1.00	75.55	A16S
ATOM	1889	O5*	C	A	99	118.493	38.275	19.511	1.00	92.63	A16S
ATOM	1890	C5*	C	A	99	119.508	37.260	19.421	1.00	92.63	A16S
ATOM	1891	C4*	C	A	99	119.243	36.352	18.251	1.00	92.63	A16S
ATOM	1892	O4*	C	A	99	118.140	35.458	18.537	1.00	92.63	A16S
ATOM	1893	C1*	C	A	99	117.401	35.228	17.351	1.00	92.63	A16S
ATOM	1894	N1	C	A	99	116.024	35.715	17.549	1.00	75.55	A16S
ATOM	1895	C6	C	A	99	115.753	36.727	18.430	1.00	75.55	A16S
ATOM	1896	C2	C	A	99	114.975	35.124	16.797	1.00	75.55	A16S
ATOM	1897	O2	C	A	99	115.243	34.196	15.994	1.00	75.55	A16S
ATOM	1898	N3	C	A	99	113.704	35.582	16.964	1.00	75.55	A16S
ATOM	1899	C4	C	A	99	113.457	36.571	17.830	1.00	75.55	A16S
ATOM	1900	N4	C	A	99	112.192	36.981	17.966	1.00	75.55	A16S
ATOM	1901	C5	C	A	99	114.499	37.182	18.599	1.00	75.55	A16S
ATOM	1902	C2*	C	A	99	118.097	35.980	16.214	1.00	92.63	A16S
ATOM	1903	O2*	C	A	99	118.948	35.105	15.498	1.00	92.63	A16S
ATOM	1904	C3*	C	A	99	118.839	37.065	16.979	1.00	92.63	A16S
ATOM	1905	O3*	C	A	99	119.959	37.590	16.294	1.00	92.63	A16S
ATOM	1906	P	A	A	101	119.940	39.123	15.810	1.00	86.17	A16S
ATOM	1907	O1P	A	A	101	121.365	39.548	15.775	1.00	66.37	A16S
ATOM	1908	O2P	A	A	101	118.976	39.887	16.648	1.00	66.37	A16S
ATOM	1909	O5*	A	A	101	119.354	39.044	14.324	1.00	86.17	A16S
ATOM	1910	C5*	A	A	101	120.158	38.526	13.246	1.00	86.17	A16S
ATOM	1911	C4*	A	A	101	119.394	37.493	12.456	1.00	86.17	A16S
ATOM	1912	O4*	A	A	101	118.568	36.720	13.368	1.00	86.17	A16S
ATOM	1913	C1*	A	A	101	117.417	36.252	12.686	1.00	86.17	A16S
ATOM	1914	N9	A	A	101	116.208	36.721	13.370	1.00	66.37	A16S
ATOM	1915	C4	A	A	101	114.922	36.309	13.085	1.00	66.37	A16S
ATOM	1916	N3	A	A	101	114.540	35.374	12.198	1.00	66.37	A16S
ATOM	1917	C2	A	A	101	113.209	35.267	12.164	1.00	66.37	A16S
ATOM	1918	N1	A	A	101	112.282	35.949	12.846	1.00	66.37	A16S



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ATOM	1919	C6	A	A 101	112.695	36.896	13.716	1.00	66.37	A16S
ATOM	1920	N6	A	A 101	111.768	37.617	14.361	1.00	66.37	A16S
ATOM	1921	C5	A	A 101	114.093	37.082	13.875	1.00	66.37	A16S
ATOM	1922	N7	A	A 101	114.841	37.925	14.686	1.00	66.37	A16S
ATOM	1923	C8	A	A 101	116.086	37.664	14.355	1.00	66.37	A16S
ATOM	1924	C2*	A	A 101	117.488	36.774	11.248	1.00	86.17	A16S
ATOM	1925	O2*	A	A 101	118.048	35.768	10.428	1.00	86.17	A16S
ATOM	1926	C3*	A	A 101	118.416	37.976	11.393	1.00	86.17	A16S
ATOM	1927	O3*	A	A 101	119.067	38.262	10.150	1.00	86.17	A16S
ATOM	1928	P	G	A 102	118.322	39.165	9.030	1.00	75.69	A16S
ATOM	1929	O1P	G	A 102	119.343	39.474	7.989	1.00	69.14	A16S
ATOM	1930	O2P	G	A 102	117.568	40.272	9.680	1.00	69.14	A16S
ATOM	1931	O5*	G	A 102	117.208	38.219	8.397	1.00	75.69	A16S
ATOM	1932	C5*	G	A 102	117.547	36.938	7.846	1.00	75.69	A16S
ATOM	1933	C4*	G	A 102	116.295	36.172	7.504	1.00	75.69	A16S
ATOM	1934	O4*	G	A 102	115.573	35.822	8.714	1.00	75.69	A16S
ATOM	1935	C1*	G	A 102	114.177	35.824	8.453	1.00	75.69	A16S
ATOM	1936	N9	G	A 102	113.530	36.782	9.340	1.00	69.14	A16S
ATOM	1937	C4	G	A 102	112.178	36.992	9.458	1.00	69.14	A16S
ATOM	1938	N3	G	A 102	111.213	36.321	8.802	1.00	69.14	A16S
ATOM	1939	C2	G	A 102	110.005	36.771	9.107	1.00	69.14	A16S
ATOM	1940	N2	G	A 102	108.919	36.208	8.555	1.00	69.14	A16S
ATOM	1941	N1	G	A 102	109.768	37.803	9.978	1.00	69.14	A16S
ATOM	1942	C6	G	A 102	110.752	38.509	10.661	1.00	69.14	A16S
ATOM	1943	O6	G	A 102	110.434	39.438	11.418	1.00	69.14	A16S
ATOM	1944	C5	G	A 102	112.046	38.028	10.354	1.00	69.14	A16S
ATOM	1945	N7	G	A 102	113.285	38.443	10.812	1.00	69.14	A16S
ATOM	1946	C8	G	A 102	114.136	37.672	10.190	1.00	69.14	A16S
ATOM	1947	C2*	G	A 102	113.978	36.228	6.993	1.00	75.69	A16S
ATOM	1948	O2*	G	A 102	113.787	35.075	6.211	1.00	75.69	A16S
ATOM	1949	C3*	G	A 102	115.282	36.950	6.691	1.00	75.69	A16S
ATOM	1950	O3*	G	A 102	115.608	36.995	5.313	1.00	75.69	A16S
ATOM	1951	P	C	A 103	115.458	38.388	4.520	1.00	66.78	A16S
ATOM	1952	O1P	C	A 103	116.244	38.295	3.257	1.00	74.53	A16S
ATOM	1953	O2P	C	A 103	115.765	39.480	5.508	1.00	74.53	A16S
ATOM	1954	O5*	C	A 103	113.910	38.432	4.139	1.00	66.78	A16S
ATOM	1955	C5*	C	A 103	113.318	37.315	3.487	1.00	66.78	A16S
ATOM	1956	C4*	C	A 103	111.822	37.349	3.617	1.00	66.78	A16S
ATOM	1957	O4*	C	A 103	111.408	37.179	4.993	1.00	66.78	A16S
ATOM	1958	C1*	C	A 103	110.167	37.834	5.193	1.00	66.78	A16S
ATOM	1959	N1	C	A 103	110.314	38.845	6.254	1.00	74.53	A16S
ATOM	1960	C6	C	A 103	111.527	39.099	6.832	1.00	74.53	A16S
ATOM	1961	C2	C	A 103	109.168	39.556	6.667	1.00	74.53	A16S
ATOM	1962	O2	C	A 103	108.088	39.347	6.094	1.00	74.53	A16S
ATOM	1963	N3	C	A 103	109.274	40.462	7.659	1.00	74.53	A16S
ATOM	1964	C4	C	A 103	110.463	40.705	8.215	1.00	74.53	A16S
ATOM	1965	N4	C	A 103	110.520	41.626	9.184	1.00	74.53	A16S
ATOM	1966	C5	C	A 103	111.649	40.017	7.800	1.00	74.53	A16S
ATOM	1967	C2*	C	A 103	109.781	38.495	3.873	1.00	66.78	A16S
ATOM	1968	O2*	C	A 103	108.916	37.641	3.153	1.00	66.78	A16S
ATOM	1969	C3*	C	A 103	111.132	38.623	3.196	1.00	66.78	A16S
ATOM	1970	O3*	C	A 103	110.991	38.712	1.802	1.00	66.78	A16S
ATOM	1971	P	G	A 104	111.253	40.122	1.094	1.00	77.99	A16S
ATOM	1972	O1P	G	A 104	110.913	39.963	-0.359	1.00	58.57	A16S
ATOM	1973	O2P	G	A 104	112.639	40.533	1.505	1.00	58.57	A16S
ATOM	1974	O5*	G	A 104	110.194	41.096	1.790	1.00	77.99	A16S
ATOM	1975	C5*	G	A 104	108.810	41.057	1.406	1.00	77.99	A16S
ATOM	1976	C4*	G	A 104	108.010	42.077	2.178	1.00	77.99	A16S
ATOM	1977	O4*	G	A 104	108.070	41.792	3.597	1.00	77.99	A16S
ATOM	1978	C1*	G	A 104	107.941	43.000	4.331	1.00	77.99	A16S
ATOM	1979	N9	G	A 104	109.123	43.160	5.172	1.00	58.57	A16S
ATOM	1980	C4	G	A 104	109.291	44.050	6.211	1.00	58.57	A16S
ATOM	1981	N3	G	A 104	108.384	44.946	6.650	1.00	58.57	A16S
ATOM	1982	C2	G	A 104	108.861	45.671	7.663	1.00	58.57	A16S
ATOM	1983	N2	G	A 104	108.112	46.631	8.227	1.00	58.57	A16S
ATOM	1984	N1	G	A 104	110.110	45.518	8.196	1.00	58.57	A16S
ATOM	1985	C6	G	A 104	111.054	44.606	7.754	1.00	58.57	A16S
ATOM	1986	O6	G	A 104	112.162	44.563	8.289	1.00	58.57	A16S
ATOM	1987	C5	G	A 104	110.567	43.826	6.679	1.00	58.57	A16S
ATOM	1988	N7	G	A 104	111.186	42.815	5.959	1.00	58.57	A16S
ATOM	1989	C8	G	A 104	110.297	42.452	5.078	1.00	58.57	A16S
ATOM	1990	C2*	G	A 104	107.792	44.131	3.320	1.00	77.99	A16S
ATOM	1991	O2*	G	A 104	106.412	44.357	3.122	1.00	77.99	A16S
ATOM	1992	C3*	G	A 104	108.437	43.528	2.083	1.00	77.99	A16S
ATOM	1993	O3*	G	A 104	107.950	44.139	0.905	1.00	77.99	A16S
ATOM	1994	P	G	A 105	108.769	45.361	0.253	1.00	81.60	A16S
ATOM	1995	O1P	G	A 105	108.017	45.709	-0.983	1.00	68.31	A16S



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ATOM	1996	O2P	G	A	105	110.206	44.995	0.154	1.00	68.31	A16S
ATOM	1997	O5*	G	A	105	108.642	46.538	1.324	1.00	81.60	A16S
ATOM	1998	C5*	G	A	105	107.354	47.081	1.629	1.00	81.60	A16S
ATOM	1999	C4*	G	A	105	107.434	48.152	2.702	1.00	81.60	A16S
ATOM	2000	O4*	G	A	105	107.728	47.598	4.007	1.00	81.60	A16S
ATOM	2001	C1*	G	A	105	108.193	48.633	4.852	1.00	81.60	A16S
ATOM	2002	N9	G	A	105	109.436	48.219	5.490	1.00	68.31	A16S
ATOM	2003	C4	G	A	105	109.990	48.790	6.608	1.00	68.31	A16S
ATOM	2004	N3	G	A	105	109.473	49.819	7.311	1.00	68.31	A16S
ATOM	2005	C2	G	A	105	110.247	50.158	8.326	1.00	68.31	A16S
ATOM	2006	N2	G	A	105	109.892	51.160	9.133	1.00	68.31	A16S
ATOM	2007	N1	G	A	105	111.428	49.540	8.623	1.00	68.31	A16S
ATOM	2008	C6	G	A	105	111.981	48.484	7.911	1.00	68.31	A16S
ATOM	2009	O6	G	A	105	113.068	48.011	8.258	1.00	68.31	A16S
ATOM	2010	C5	G	A	105	111.163	48.104	6.827	1.00	68.31	A16S
ATOM	2011	N7	G	A	105	111.340	47.109	5.871	1.00	68.31	A16S
ATOM	2012	C8	G	A	105	110.290	47.214	5.100	1.00	68.31	A16S
ATOM	2013	C2*	G	A	105	108.383	49.882	3.992	1.00	81.60	A16S
ATOM	2014	O2*	G	A	105	107.249	50.700	4.195	1.00	81.60	A16S
ATOM	2015	C3*	G	A	105	108.419	49.302	2.581	1.00	81.60	A16S
ATOM	2016	O3*	G	A	105	107.971	50.273	1.652	1.00	81.60	A16S
ATOM	2017	P	C	A	106	109.040	51.086	0.774	1.00	77.14	A16S
ATOM	2018	O1P	C	A	106	108.218	51.730	-0.291	1.00	65.66	A16S
ATOM	2019	O2P	C	A	106	110.163	50.188	0.392	1.00	65.66	A16S
ATOM	2020	O5*	C	A	106	109.620	52.179	1.783	1.00	77.14	A16S
ATOM	2021	C5*	C	A	106	108.798	53.270	2.221	1.00	77.14	A16S
ATOM	2022	C4*	C	A	106	109.405	53.957	3.416	1.00	77.14	A16S
ATOM	2023	O4*	C	A	106	109.428	53.057	4.550	1.00	77.14	A16S
ATOM	2024	C1*	C	A	106	110.550	53.348	5.370	1.00	77.14	A16S
ATOM	2025	N1	C	A	106	111.452	52.191	5.355	1.00	65.66	A16S
ATOM	2026	C6	C	A	106	111.397	51.264	4.345	1.00	65.66	A16S
ATOM	2027	C2	C	A	106	112.403	52.076	6.370	1.00	65.66	A16S
ATOM	2028	O2	C	A	106	112.391	52.907	7.292	1.00	65.66	A16S
ATOM	2029	N3	C	A	106	113.310	51.067	6.312	1.00	65.66	A16S
ATOM	2030	C4	C	A	106	113.278	50.197	5.291	1.00	65.66	A16S
ATOM	2031	N4	C	A	106	114.224	49.255	5.229	1.00	65.66	A16S
ATOM	2032	C5	C	A	106	112.282	50.265	4.274	1.00	65.66	A16S
ATOM	2033	C2*	C	A	106	111.278	54.532	4.742	1.00	77.14	A16S
ATOM	2034	O2*	C	A	106	110.865	55.742	5.348	1.00	77.14	A16S
ATOM	2035	C3*	C	A	106	110.844	54.403	3.291	1.00	77.14	A16S
ATOM	2036	O3*	C	A	106	110.984	55.609	2.586	1.00	77.14	A16S
ATOM	2037	P	G	A	107	112.248	55.794	1.622	1.00	61.10	A16S
ATOM	2038	O1P	G	A	107	111.929	56.993	0.789	1.00	66.87	A16S
ATOM	2039	O2P	G	A	107	112.525	54.467	0.960	1.00	66.87	A16S
ATOM	2040	O5*	G	A	107	113.447	56.097	2.628	1.00	61.10	A16S
ATOM	2041	C5*	G	A	107	113.386	57.216	3.505	1.00	61.10	A16S
ATOM	2042	C4*	G	A	107	114.483	57.141	4.530	1.00	61.10	A16S
ATOM	2043	O4*	G	A	107	114.212	56.068	5.465	1.00	61.10	A16S
ATOM	2044	C1*	G	A	107	115.443	55.489	5.892	1.00	61.10	A16S
ATOM	2045	N9	G	A	107	115.516	54.125	5.370	1.00	66.87	A16S
ATOM	2046	C4	G	A	107	116.486	53.180	5.651	1.00	66.87	A16S
ATOM	2047	N3	G	A	107	117.528	53.332	6.498	1.00	66.87	A16S
ATOM	2048	C2	G	A	107	118.305	52.261	6.524	1.00	66.87	A16S
ATOM	2049	N2	G	A	107	119.380	52.233	7.317	1.00	66.87	A16S
ATOM	2050	N1	G	A	107	118.085	51.129	5.773	1.00	66.87	A16S
ATOM	2051	C6	G	A	107	117.014	50.948	4.893	1.00	66.87	A16S
ATOM	2052	O6	G	A	107	116.899	49.882	4.252	1.00	66.87	A16S
ATOM	2053	C5	G	A	107	116.168	52.089	4.864	1.00	66.87	A16S
ATOM	2054	N7	G	A	107	115.013	52.329	4.130	1.00	66.87	A16S
ATOM	2055	C8	G	A	107	114.658	53.540	4.466	1.00	66.87	A16S
ATOM	2056	C2*	G	A	107	116.566	56.314	5.268	1.00	61.10	A16S
ATOM	2057	O2*	G	A	107	116.956	57.368	6.131	1.00	61.10	A16S
ATOM	2058	C3*	G	A	107	115.880	56.832	4.018	1.00	61.10	A16S
ATOM	2059	O3*	G	A	107	116.562	57.940	3.478	1.00	61.10	A16S
ATOM	2060	P	G	A	108	117.404	57.754	2.127	1.00	62.79	A16S
ATOM	2061	O1P	G	A	108	117.826	59.112	1.731	1.00	83.67	A16S
ATOM	2062	O2P	G	A	108	116.609	56.921	1.184	1.00	83.67	A16S
ATOM	2063	O5*	G	A	108	118.692	56.924	2.564	1.00	62.79	A16S
ATOM	2064	C5*	G	A	108	119.255	57.089	3.868	1.00	62.79	A16S
ATOM	2065	C4*	G	A	108	120.246	55.990	4.179	1.00	62.79	A16S
ATOM	2066	O4*	G	A	108	119.644	54.655	4.058	1.00	62.79	A16S
ATOM	2067	C1*	G	A	108	120.695	53.693	4.062	1.00	62.79	A16S
ATOM	2068	N9	G	A	108	120.553	52.620	3.055	1.00	83.67	A16S
ATOM	2069	C4	G	A	108	119.717	52.493	1.955	1.00	83.67	A16S
ATOM	2070	N3	G	A	108	118.725	53.330	1.598	1.00	83.67	A16S
ATOM	2071	C2	G	A	108	118.110	52.919	0.494	1.00	83.67	A16S
ATOM	2072	N2	G	A	108	117.045	53.601	0.023	1.00	83.67	A16S



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ATOM	2073	N1	G	A	108	118.479	51.803	-0.223	1.00	83.67	A16S
ATOM	2074	C6	G	A	108	119.516	50.943	0.118	1.00	83.67	A16S
ATOM	2075	O6	G	A	108	119.797	49.982	-0.612	1.00	83.67	A16S
ATOM	2076	C5	G	A	108	120.139	51.336	1.310	1.00	83.67	A16S
ATOM	2077	N7	G	A	108	121.172	50.730	1.999	1.00	83.67	A16S
ATOM	2078	C8	G	A	108	121.373	51.506	3.026	1.00	83.67	A16S
ATOM	2079	C2*	G	A	108	121.979	54.474	3.782	1.00	62.79	A16S
ATOM	2080	O2*	G	A	108	122.703	54.645	4.984	1.00	62.79	A16S
ATOM	2081	C3*	G	A	108	121.443	55.801	3.266	1.00	62.79	A16S
ATOM	2082	O3*	G	A	108	122.492	56.758	3.289	1.00	62.79	A16S
ATOM	2083	P	A	A	109	123.517	56.806	2.036	1.00	65.83	A16S
ATOM	2084	O1P	A	A	109	123.835	55.395	1.657	1.00	68.33	A16S
ATOM	2085	O2P	A	A	109	124.631	57.745	2.327	1.00	68.33	A16S
ATOM	2086	O5*	A	A	109	122.625	57.388	0.847	1.00	65.83	A16S
ATOM	2087	C5*	A	A	109	121.926	58.648	0.969	1.00	65.83	A16S
ATOM	2088	C4*	A	A	109	122.212	59.514	-0.241	1.00	65.83	A16S
ATOM	2089	O4*	A	A	109	121.983	58.746	-1.443	1.00	65.83	A16S
ATOM	2090	C1*	A	A	109	121.096	59.435	-2.291	1.00	65.83	A16S
ATOM	2091	N9	A	A	109	120.253	58.436	-2.923	1.00	68.33	A16S
ATOM	2092	C4	A	A	109	119.653	57.383	-2.289	1.00	68.33	A16S
ATOM	2093	N3	A	A	109	119.700	57.096	-0.979	1.00	68.33	A16S
ATOM	2094	C2	A	A	109	119.016	55.993	-0.729	1.00	68.33	A16S
ATOM	2095	N1	A	A	109	118.344	55.200	-1.579	1.00	68.33	A16S
ATOM	2096	C6	A	A	109	118.327	55.521	-2.887	1.00	68.33	A16S
ATOM	2097	N6	A	A	109	117.674	54.729	-3.733	1.00	68.33	A16S
ATOM	2098	C5	A	A	109	119.007	56.670	-3.277	1.00	68.33	A16S
ATOM	2099	N7	A	A	109	119.180	57.274	-4.510	1.00	68.33	A16S
ATOM	2100	C8	A	A	109	119.921	58.321	-4.243	1.00	68.33	A16S
ATOM	2101	C2*	A	A	109	120.346	60.434	-1.416	1.00	65.83	A16S
ATOM	2102	O2*	A	A	109	119.946	61.539	-2.212	1.00	65.83	A16S
ATOM	2103	C3*	A	A	109	121.422	60.809	-0.401	1.00	65.83	A16S
ATOM	2104	O3*	A	A	109	122.269	61.747	-1.057	1.00	65.83	A16S
ATOM	2105	P	C	A	110	123.299	62.631	-0.211	1.00	75.29	A16S
ATOM	2106	O1P	C	A	110	123.666	63.775	-1.082	1.00	84.30	A16S
ATOM	2107	O2P	C	A	110	124.370	61.763	0.345	1.00	84.30	A16S
ATOM	2108	O5*	C	A	110	122.412	63.163	0.997	1.00	75.29	A16S
ATOM	2109	C5*	C	A	110	121.291	64.029	0.770	1.00	75.29	A16S
ATOM	2110	C4*	C	A	110	120.675	64.421	2.090	1.00	75.29	A16S
ATOM	2111	O4*	C	A	110	120.129	63.234	2.721	1.00	75.29	A16S
ATOM	2112	C1*	C	A	110	120.317	63.313	4.122	1.00	75.29	A16S
ATOM	2113	N1	C	A	110	121.184	62.201	4.534	1.00	84.30	A16S
ATOM	2114	C6	C	A	110	121.960	61.541	3.624	1.00	84.30	A16S
ATOM	2115	C2	C	A	110	121.200	61.827	5.878	1.00	84.30	A16S
ATOM	2116	O2	C	A	110	120.495	62.454	6.688	1.00	84.30	A16S
ATOM	2117	N3	C	A	110	121.980	60.797	6.265	1.00	84.30	A16S
ATOM	2118	C4	C	A	110	122.718	60.145	5.365	1.00	84.30	A16S
ATOM	2119	N4	C	A	110	123.449	59.110	5.787	1.00	84.30	A16S
ATOM	2120	C5	C	A	110	122.733	60.518	3.991	1.00	84.30	A16S
ATOM	2121	C2*	C	A	110	120.951	64.667	4.438	1.00	75.29	A16S
ATOM	2122	O2*	C	A	110	119.941	65.593	4.787	1.00	75.29	A16S
ATOM	2123	C3*	C	A	110	121.637	64.990	3.121	1.00	75.29	A16S
ATOM	2124	O3*	C	A	110	121.841	66.377	2.972	1.00	75.29	A16S
ATOM	2125	P	G	A	111	123.273	67.002	3.334	1.00	59.83	A16S
ATOM	2126	O1P	G	A	111	123.097	68.488	3.302	1.00	83.81	A16S
ATOM	2127	O2P	G	A	111	124.347	66.353	2.515	1.00	83.81	A16S
ATOM	2128	O5*	G	A	111	123.526	66.569	4.839	1.00	59.83	A16S
ATOM	2129	C5*	G	A	111	122.846	67.222	5.901	1.00	59.83	A16S
ATOM	2130	C4*	G	A	111	123.191	66.559	7.193	1.00	59.83	A16S
ATOM	2131	O4*	G	A	111	122.773	65.177	7.122	1.00	59.83	A16S
ATOM	2132	C1*	G	A	111	123.724	64.352	7.778	1.00	59.83	A16S
ATOM	2133	N9	G	A	111	124.330	63.477	6.776	1.00	83.81	A16S
ATOM	2134	C4	G	A	111	124.901	62.252	6.994	1.00	83.81	A16S
ATOM	2135	N3	G	A	111	124.974	61.619	8.174	1.00	83.81	A16S
ATOM	2136	C2	G	A	111	125.614	60.479	8.072	1.00	83.81	A16S
ATOM	2137	N2	G	A	111	125.800	59.731	9.154	1.00	83.81	A16S
ATOM	2138	N1	G	A	111	126.127	59.987	6.902	1.00	83.81	A16S
ATOM	2139	C6	G	A	111	126.055	60.618	5.671	1.00	83.81	A16S
ATOM	2140	O6	G	A	111	126.548	60.082	4.667	1.00	83.81	A16S
ATOM	2141	C5	G	A	111	125.384	61.847	5.769	1.00	83.81	A16S
ATOM	2142	N7	G	A	111	125.098	62.785	4.794	1.00	83.81	A16S
ATOM	2143	C8	G	A	111	124.467	63.731	5.433	1.00	83.81	A16S
ATOM	2144	C2*	G	A	111	124.762	65.280	8.405	1.00	59.83	A16S
ATOM	2145	O2*	G	A	111	124.388	65.630	9.729	1.00	59.83	A16S
ATOM	2146	C3*	G	A	111	124.674	66.471	7.473	1.00	59.83	A16S
ATOM	2147	O3*	G	A	111	125.196	67.653	8.028	1.00	59.83	A16S
ATOM	2148	P	G	A	112	126.537	68.269	7.401	1.00	67.49	A16S
ATOM	2149	O1P	G	A	112	126.783	69.564	8.087	1.00	70.39	A16S



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ATOM	2150	O2P	G	A	112	126.369	68.227	5.914	1.00	70.39	A16S
ATOM	2151	O5*	G	A	112	127.694	67.245	7.822	1.00	67.49	A16S
ATOM	2152	C5*	G	A	112	128.055	67.076	9.210	1.00	67.49	A16S
ATOM	2153	C4*	G	A	112	129.159	66.044	9.367	1.00	67.49	A16S
ATOM	2154	O4*	G	A	112	128.674	64.737	8.962	1.00	67.49	A16S
ATOM	2155	C1*	G	A	112	129.728	63.995	8.374	1.00	67.49	A16S
ATOM	2156	N9	G	A	112	129.472	63.906	6.941	1.00	70.39	A16S
ATOM	2157	C4	G	A	112	130.242	63.243	6.013	1.00	70.39	A16S
ATOM	2158	N3	G	A	112	131.343	62.510	6.275	1.00	70.39	A16S
ATOM	2159	C2	G	A	112	131.865	61.990	5.176	1.00	70.39	A16S
ATOM	2160	N2	G	A	112	132.949	61.190	5.266	1.00	70.39	A16S
ATOM	2161	N1	G	A	112	131.360	62.205	3.915	1.00	70.39	A16S
ATOM	2162	C6	G	A	112	130.235	62.969	3.626	1.00	70.39	A16S
ATOM	2163	O6	G	A	112	129.880	63.122	2.459	1.00	70.39	A16S
ATOM	2164	C5	G	A	112	129.649	63.497	4.796	1.00	70.39	A16S
ATOM	2165	N7	G	A	112	128.514	64.274	4.955	1.00	70.39	A16S
ATOM	2166	C8	G	A	112	128.447	64.491	6.241	1.00	70.39	A16S
ATOM	2167	C2*	G	A	112	130.996	64.809	8.571	1.00	67.49	A16S
ATOM	2168	O2*	G	A	112	131.576	64.479	9.814	1.00	67.49	A16S
ATOM	2169	C3*	G	A	112	130.436	66.218	8.560	1.00	67.49	A16S
ATOM	2170	O3*	G	A	112	131.367	67.160	9.074	1.00	67.49	A16S
ATOM	2171	P	G	A	113	132.222	68.049	8.032	1.00	75.47	A16S
ATOM	2172	O1P	G	A	113	133.027	69.064	8.791	1.00	54.60	A16S
ATOM	2173	O2P	G	A	113	131.247	68.503	6.997	1.00	54.60	A16S
ATOM	2174	O5*	G	A	113	133.210	66.997	7.338	1.00	75.47	A16S
ATOM	2175	C5*	G	A	113	134.001	66.091	8.137	1.00	75.47	A16S
ATOM	2176	C4*	G	A	113	134.935	65.274	7.275	1.00	75.47	A16S
ATOM	2177	O4*	G	A	113	134.192	64.332	6.477	1.00	75.47	A16S
ATOM	2178	C1*	G	A	113	134.850	64.122	5.243	1.00	75.47	A16S
ATOM	2179	N9	G	A	113	133.929	64.500	4.176	1.00	54.60	A16S
ATOM	2180	C4	G	A	113	134.080	64.307	2.820	1.00	54.60	A16S
ATOM	2181	N3	G	A	113	135.126	63.725	2.209	1.00	54.60	A16S
ATOM	2182	C2	G	A	113	134.964	63.683	0.895	1.00	54.60	A16S
ATOM	2183	N2	G	A	113	135.886	63.117	0.126	1.00	54.60	A16S
ATOM	2184	N1	G	A	113	133.880	64.186	0.236	1.00	54.60	A16S
ATOM	2185	C6	G	A	113	132.795	64.791	0.843	1.00	54.60	A16S
ATOM	2186	O6	G	A	113	131.863	65.222	0.155	1.00	54.60	A16S
ATOM	2187	C5	G	A	113	132.941	64.828	2.250	1.00	54.60	A16S
ATOM	2188	N7	G	A	113	132.091	65.330	3.220	1.00	54.60	A16S
ATOM	2189	C8	G	A	113	132.718	65.120	4.342	1.00	54.60	A16S
ATOM	2190	C2*	G	A	113	136.138	64.939	5.271	1.00	75.47	A16S
ATOM	2191	O2*	G	A	113	137.164	64.108	5.774	1.00	75.47	A16S
ATOM	2192	C3*	G	A	113	135.794	66.023	6.278	1.00	75.47	A16S
ATOM	2193	O3*	G	A	113	136.967	66.515	6.903	1.00	75.47	A16S
ATOM	2194	P	U	A	114	137.555	67.958	6.482	1.00	61.91	A16S
ATOM	2195	O1P	U	A	114	138.639	68.256	7.478	1.00	61.29	A16S
ATOM	2196	O2P	U	A	114	136.417	68.925	6.309	1.00	61.29	A16S
ATOM	2197	O5*	U	A	114	138.211	67.691	5.057	1.00	61.91	A16S
ATOM	2198	C5*	U	A	114	139.294	66.780	4.939	1.00	61.91	A16S
ATOM	2199	C4*	U	A	114	139.446	66.349	3.517	1.00	61.91	A16S
ATOM	2200	O4*	U	A	114	138.203	65.765	3.074	1.00	61.91	A16S
ATOM	2201	C1*	U	A	114	138.050	65.992	1.691	1.00	61.91	A16S
ATOM	2202	N1	U	A	114	136.727	66.588	1.454	1.00	61.29	A16S
ATOM	2203	C6	U	A	114	135.988	67.122	2.481	1.00	61.29	A16S
ATOM	2204	C2	U	A	114	136.240	66.584	0.155	1.00	61.29	A16S
ATOM	2205	O2	U	A	114	136.860	66.140	-0.784	1.00	61.29	A16S
ATOM	2206	N3	U	A	114	134.995	67.126	-0.003	1.00	61.29	A16S
ATOM	2207	C4	U	A	114	134.198	67.673	0.973	1.00	61.29	A16S
ATOM	2208	O4	U	A	114	133.089	68.130	0.666	1.00	61.29	A16S
ATOM	2209	C5	U	A	114	134.773	67.651	2.292	1.00	61.29	A16S
ATOM	2210	C2*	U	A	114	139.249	66.815	1.209	1.00	61.91	A16S
ATOM	2211	O2*	U	A	114	140.205	65.918	0.684	1.00	61.91	A16S
ATOM	2212	C3*	U	A	114	139.746	67.442	2.505	1.00	61.91	A16S
ATOM	2213	O3*	U	A	114	141.153	67.703	2.471	1.00	61.91	A16S
ATOM	2214	P	G	A	115	141.701	69.180	2.113	1.00	67.69	A16S
ATOM	2215	O1P	G	A	115	143.142	69.233	2.589	1.00	64.60	A16S
ATOM	2216	O2P	G	A	115	140.753	70.221	2.596	1.00	64.60	A16S
ATOM	2217	O5*	G	A	115	141.608	69.208	0.517	1.00	67.69	A16S
ATOM	2218	C5*	G	A	115	142.341	68.271	-0.304	1.00	67.69	A16S
ATOM	2219	C4*	G	A	115	141.932	68.436	-1.744	1.00	67.69	A16S
ATOM	2220	O4*	G	A	115	140.513	68.221	-1.774	1.00	67.69	A16S
ATOM	2221	C1*	G	A	115	139.887	69.174	-2.595	1.00	67.69	A16S
ATOM	2222	N9	G	A	115	138.610	69.530	-1.972	1.00	64.60	A16S
ATOM	2223	C4	G	A	115	137.418	69.739	-2.629	1.00	64.60	A16S
ATOM	2224	N3	G	A	115	137.240	69.728	-3.964	1.00	64.60	A16S
ATOM	2225	C2	G	A	115	135.979	69.936	-4.298	1.00	64.60	A16S
ATOM	2226	N2	G	A	115	135.642	69.969	-5.590	1.00	64.60	A16S



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ATOM	2227	N1	G	A	115	134.964	70.132	-3.394	1.00	64.60	A16S
ATOM	2228	C6	G	A	115	135.122	70.147	-2.014	1.00	64.60	A16S
ATOM	2229	O6	G	A	115	134.144	70.333	-1.290	1.00	64.60	A16S
ATOM	2230	C5	G	A	115	136.478	69.930	-1.638	1.00	64.60	A16S
ATOM	2231	N7	G	A	115	137.068	69.873	-0.383	1.00	64.60	A16S
ATOM	2232	C8	G	A	115	138.334	69.650	-0.629	1.00	64.60	A16S
ATOM	2233	C2*	G	A	115	140.892	70.248	-3.034	1.00	67.69	A16S
ATOM	2234	O2*	G	A	115	140.941	70.349	-4.449	1.00	67.69	A16S
ATOM	2235	C3*	G	A	115	142.169	69.841	-2.274	1.00	67.69	A16S
ATOM	2236	O3*	G	A	115	143.515	69.997	-2.828	1.00	67.69	A16S
ATOM	2237	P	A	A	116	143.959	69.330	-4.257	1.00	56.89	A16S
ATOM	2238	O1P	A	A	116	145.362	69.794	-4.446	1.00	59.32	A16S
ATOM	2239	O2P	A	A	116	142.959	69.593	-5.342	1.00	59.32	A16S
ATOM	2240	O5*	A	A	116	144.011	67.754	-4.022	1.00	56.89	A16S
ATOM	2241	C5*	A	A	116	145.192	66.993	-4.354	1.00	56.89	A16S
ATOM	2242	C4*	A	A	116	144.857	65.890	-5.331	1.00	56.89	A16S
ATOM	2243	O4*	A	A	116	143.754	65.126	-4.782	1.00	56.89	A16S
ATOM	2244	C1*	A	A	116	142.841	64.784	-5.812	1.00	56.89	A16S
ATOM	2245	N9	A	A	116	141.611	65.556	-5.609	1.00	59.32	A16S
ATOM	2246	C4	A	A	116	140.399	65.316	-6.203	1.00	59.32	A16S
ATOM	2247	N3	A	A	116	140.097	64.324	-7.042	1.00	59.32	A16S
ATOM	2248	C2	A	A	116	138.842	64.419	-7.433	1.00	59.32	A16S
ATOM	2249	N1	A	A	116	137.919	65.325	-7.104	1.00	59.32	A16S
ATOM	2250	C6	A	A	116	138.256	66.312	-6.256	1.00	59.32	A16S
ATOM	2251	N6	A	A	116	137.334	67.216	-5.928	1.00	59.32	A16S
ATOM	2252	C5	A	A	116	139.559	66.325	-5.771	1.00	59.32	A16S
ATOM	2253	N7	A	A	116	140.219	67.183	-4.904	1.00	59.32	A16S
ATOM	2254	C8	A	A	116	141.428	66.682	-4.831	1.00	59.32	A16S
ATOM	2255	C2*	A	A	116	143.496	65.168	-7.137	1.00	56.89	A16S
ATOM	2256	O2*	A	A	116	144.227	64.062	-7.613	1.00	56.89	A16S
ATOM	2257	C3*	A	A	116	144.389	66.327	-6.715	1.00	56.89	A16S
ATOM	2258	O3*	A	A	116	145.483	66.489	-7.625	1.00	56.89	A16S
ATOM	2259	P	G	A	117	145.385	67.565	-8.838	1.00	61.50	A16S
ATOM	2260	O1P	G	A	117	144.980	68.867	-8.237	1.00	76.75	A16S
ATOM	2261	O2P	G	A	117	146.654	67.495	-9.617	1.00	76.75	A16S
ATOM	2262	O5*	G	A	117	144.182	67.040	-9.759	1.00	61.50	A16S
ATOM	2263	C5*	G	A	117	144.225	65.739	-10.397	1.00	61.50	A16S
ATOM	2264	C4*	G	A	117	142.866	65.383	-10.973	1.00	61.50	A16S
ATOM	2265	O4*	G	A	117	141.899	65.265	-9.900	1.00	61.50	A16S
ATOM	2266	C1*	G	A	117	140.669	65.854	-10.287	1.00	61.50	A16S
ATOM	2267	N9	G	A	117	140.434	66.984	-9.393	1.00	76.75	A16S
ATOM	2268	C4	G	A	117	139.285	67.731	-9.264	1.00	76.75	A16S
ATOM	2269	N3	G	A	117	138.152	67.582	-9.976	1.00	76.75	A16S
ATOM	2270	C2	G	A	117	137.216	68.436	-9.593	1.00	76.75	A16S
ATOM	2271	N2	G	A	117	136.016	68.430	-10.177	1.00	76.75	A16S
ATOM	2272	N1	G	A	117	137.380	69.363	-8.599	1.00	76.75	A16S
ATOM	2273	C6	G	A	117	138.535	69.530	-7.846	1.00	76.75	A16S
ATOM	2274	O6	G	A	117	138.571	70.378	-6.941	1.00	76.75	A16S
ATOM	2275	C5	G	A	117	139.549	68.631	-8.249	1.00	76.75	A16S
ATOM	2276	N7	G	A	117	140.844	68.476	-7.773	1.00	76.75	A16S
ATOM	2277	C8	G	A	117	141.330	67.495	-8.483	1.00	76.75	A16S
ATOM	2278	C2*	G	A	117	140.786	66.250	-11.757	1.00	61.50	A16S
ATOM	2279	O2*	G	A	117	140.315	65.216	-12.588	1.00	61.50	A16S
ATOM	2280	C3*	G	A	117	142.286	66.430	-11.907	1.00	61.50	A16S
ATOM	2281	O3*	G	A	117	142.690	66.210	-13.245	1.00	61.50	A16S
ATOM	2282	P	U	A	118	143.130	67.461	-14.148	1.00	67.41	A16S
ATOM	2283	O1P	U	A	118	143.518	66.931	-15.486	1.00	82.00	A16S
ATOM	2284	O2P	U	A	118	144.107	68.271	-13.349	1.00	82.00	A16S
ATOM	2285	O5*	U	A	118	141.781	68.288	-14.362	1.00	67.41	A16S
ATOM	2286	C5*	U	A	118	140.670	67.723	-15.091	1.00	67.41	A16S
ATOM	2287	C4*	U	A	118	139.413	68.527	-14.844	1.00	67.41	A16S
ATOM	2288	O4*	U	A	118	139.107	68.532	-13.424	1.00	67.41	A16S
ATOM	2289	C1*	U	A	118	138.502	69.763	-13.066	1.00	67.41	A16S
ATOM	2290	N1	U	A	118	139.319	70.417	-12.029	1.00	82.00	A16S
ATOM	2291	C6	U	A	118	140.595	69.995	-11.748	1.00	82.00	A16S
ATOM	2292	C2	U	A	118	138.764	71.493	-11.351	1.00	82.00	A16S
ATOM	2293	O2	U	A	118	137.627	71.885	-11.550	1.00	82.00	A16S
ATOM	2294	N3	U	A	118	139.592	72.093	-10.430	1.00	82.00	A16S
ATOM	2295	C4	U	A	118	140.887	71.730	-10.119	1.00	82.00	A16S
ATOM	2296	O4	U	A	118	141.522	72.387	-9.291	1.00	82.00	A16S
ATOM	2297	C5	U	A	118	141.377	70.598	-10.843	1.00	82.00	A16S
ATOM	2298	C2*	U	A	118	138.377	70.599	-14.340	1.00	67.41	A16S
ATOM	2299	O2*	U	A	118	137.077	70.423	-14.875	1.00	67.41	A16S
ATOM	2300	C3*	U	A	118	139.465	69.994	-15.218	1.00	67.41	A16S
ATOM	2301	O3*	U	A	118	139.172	70.171	-16.585	1.00	67.41	A16S
ATOM	2302	P	A	A	119	140.082	71.152	-17.466	1.00	71.87	A16S
ATOM	2303	O1P	A	A	119	139.633	70.942	-18.866	1.00	64.88	A16S



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ATOM	2304	O2P	A	A	119	141.512	70.951	-17.107	1.00	64.88	A16S
ATOM	2305	O5*	A	A	119	139.678	72.625	-17.009	1.00	71.87	A16S
ATOM	2306	C5*	A	A	119	138.455	73.230	-17.463	1.00	71.87	A16S
ATOM	2307	C4*	A	A	119	138.712	74.648	-17.895	1.00	71.87	A16S
ATOM	2308	O4*	A	A	119	139.210	75.375	-16.761	1.00	71.87	A16S
ATOM	2309	C1*	A	A	119	140.099	76.377	-17.196	1.00	71.87	A16S
ATOM	2310	N9	A	A	119	141.149	76.520	-16.191	1.00	64.88	A16S
ATOM	2311	C4	A	A	119	141.308	77.624	-15.387	1.00	64.88	A16S
ATOM	2312	N3	A	A	119	140.579	78.756	-15.399	1.00	64.88	A16S
ATOM	2313	C2	A	A	119	141.006	79.600	-14.452	1.00	64.88	A16S
ATOM	2314	N1	A	A	119	142.002	79.448	-13.565	1.00	64.88	A16S
ATOM	2315	C6	A	A	119	142.709	78.293	-13.586	1.00	64.88	A16S
ATOM	2316	N6	A	A	119	143.691	78.127	-12.702	1.00	64.88	A16S
ATOM	2317	C5	A	A	119	142.360	77.324	-14.541	1.00	64.88	A16S
ATOM	2318	N7	A	A	119	142.870	76.065	-14.819	1.00	64.88	A16S
ATOM	2319	C8	A	A	119	142.123	75.636	-15.812	1.00	64.88	A16S
ATOM	2320	C2*	A	A	119	140.510	76.106	-18.645	1.00	71.87	A16S
ATOM	2321	O2*	A	A	119	140.213	77.218	-19.465	1.00	71.87	A16S
ATOM	2322	C3*	A	A	119	139.797	74.780	-18.947	1.00	71.87	A16S
ATOM	2323	O3*	A	A	119	139.314	74.537	-20.296	1.00	71.87	A16S
ATOM	2324	P	A	A	120	137.967	75.253	-20.861	1.00	83.50	A16S
ATOM	2325	O1P	A	A	120	137.885	74.889	-22.305	1.00	63.78	A16S
ATOM	2326	O2P	A	A	120	137.896	76.686	-20.472	1.00	63.78	A16S
ATOM	2327	O5*	A	A	120	136.782	74.489	-20.119	1.00	83.50	A16S
ATOM	2328	C5*	A	A	120	136.397	73.150	-20.494	1.00	83.50	A16S
ATOM	2329	C4*	A	A	120	135.225	72.704	-19.654	1.00	83.50	A16S
ATOM	2330	O4*	A	A	120	135.631	72.768	-18.260	1.00	83.50	A16S
ATOM	2331	C1*	A	A	120	134.592	73.317	-17.471	1.00	83.50	A16S
ATOM	2332	N9	A	A	120	135.086	74.594	-16.946	1.00	63.78	A16S
ATOM	2333	C4	A	A	120	135.692	74.827	-15.733	1.00	63.78	A16S
ATOM	2334	N3	A	A	120	135.912	73.949	-14.742	1.00	63.78	A16S
ATOM	2335	C2	A	A	120	136.553	74.540	-13.719	1.00	63.78	A16S
ATOM	2336	N1	A	A	120	136.980	75.806	-13.599	1.00	63.78	A16S
ATOM	2337	C6	A	A	120	136.762	76.649	-14.630	1.00	63.78	A16S
ATOM	2338	N6	A	A	120	137.236	77.896	-14.550	1.00	63.78	A16S
ATOM	2339	C5	A	A	120	136.063	76.156	-15.748	1.00	63.78	A16S
ATOM	2340	N7	A	A	120	135.661	76.760	-16.924	1.00	63.78	A16S
ATOM	2341	C8	A	A	120	135.082	75.798	-17.594	1.00	63.78	A16S
ATOM	2342	C2*	A	A	120	133.359	73.428	-18.374	1.00	83.50	A16S
ATOM	2343	O2*	A	A	120	132.638	72.217	-18.285	1.00	83.50	A16S
ATOM	2344	C3*	A	A	120	133.991	73.590	-19.749	1.00	83.50	A16S
ATOM	2345	O3*	A	A	120	133.116	73.152	-20.789	1.00	83.50	A16S
ATOM	2346	P	C	A	121	132.095	74.198	-21.468	1.00	89.42	A16S
ATOM	2347	O1P	C	A	121	131.279	73.498	-22.507	1.00	70.54	A16S
ATOM	2348	O2P	C	A	121	132.890	75.388	-21.847	1.00	70.54	A16S
ATOM	2349	O5*	C	A	121	131.130	74.621	-20.271	1.00	89.42	A16S
ATOM	2350	C5*	C	A	121	129.932	73.885	-19.996	1.00	89.42	A16S
ATOM	2351	C4*	C	A	121	129.373	74.280	-18.656	1.00	89.42	A16S
ATOM	2352	O4*	C	A	121	128.901	75.660	-18.668	1.00	89.42	A16S
ATOM	2353	C1*	C	A	121	127.545	75.712	-18.240	1.00	89.42	A16S
ATOM	2354	N1	C	A	121	126.850	76.825	-18.941	1.00	70.54	A16S
ATOM	2355	C6	C	A	121	126.752	76.817	-20.307	1.00	70.54	A16S
ATOM	2356	C2	C	A	121	126.297	77.931	-18.184	1.00	70.54	A16S
ATOM	2357	O2	C	A	121	126.312	77.918	-16.939	1.00	70.54	A16S
ATOM	2358	N3	C	A	121	125.753	78.965	-18.855	1.00	70.54	A16S
ATOM	2359	C4	C	A	121	125.705	78.942	-20.198	1.00	70.54	A16S
ATOM	2360	N4	C	A	121	125.183	79.998	-20.824	1.00	70.54	A16S
ATOM	2361	C5	C	A	121	126.195	77.838	-20.965	1.00	70.54	A16S
ATOM	2362	C2*	C	A	121	126.989	74.315	-18.527	1.00	89.42	A16S
ATOM	2363	O2*	C	A	121	125.872	74.034	-17.708	1.00	89.42	A16S
ATOM	2364	C3*	C	A	121	128.196	73.431	-18.217	1.00	89.42	A16S
ATOM	2365	O3*	C	A	121	128.308	73.236	-16.816	1.00	89.42	A16S
ATOM	2366	P	G	A	122	128.976	71.894	-16.248	1.00	67.04	A16S
ATOM	2367	O1P	G	A	122	127.921	70.837	-16.312	1.00	77.10	A16S
ATOM	2368	O2P	G	A	122	130.278	71.662	-16.910	1.00	77.10	A16S
ATOM	2369	O5*	G	A	122	129.304	72.265	-14.737	1.00	67.04	A16S
ATOM	2370	C5*	G	A	122	129.733	71.256	-13.828	1.00	67.04	A16S
ATOM	2371	C4*	G	A	122	130.694	71.832	-12.845	1.00	67.04	A16S
ATOM	2372	O4*	G	A	122	131.907	72.196	-13.544	1.00	67.04	A16S
ATOM	2373	C1*	G	A	122	132.442	73.386	-12.988	1.00	67.04	A16S
ATOM	2374	N9	G	A	122	132.458	74.403	-14.032	1.00	77.10	A16S
ATOM	2375	C4	G	A	122	132.922	75.692	-13.914	1.00	77.10	A16S
ATOM	2376	N3	G	A	122	133.474	76.240	-12.811	1.00	77.10	A16S
ATOM	2377	C2	G	A	122	133.798	77.509	-12.999	1.00	77.10	A16S
ATOM	2378	N2	G	A	122	134.373	78.216	-12.007	1.00	77.10	A16S
ATOM	2379	N1	G	A	122	133.588	78.182	-14.172	1.00	77.10	A16S
ATOM	2380	C6	G	A	122	133.018	77.639	-15.317	1.00	77.10	A16S



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ATOM	2381	O6	G	A	122	132.866	78.342	-16.324	1.00	77.10	A16S
ATOM	2382	C5	G	A	122	132.676	76.280	-15.133	1.00	77.10	A16S
ATOM	2383	N7	G	A	122	132.091	75.376	-16.009	1.00	77.10	A16S
ATOM	2384	C8	G	A	122	131.986	74.277	-15.315	1.00	77.10	A16S
ATOM	2385	C2*	G	A	122	131.534	73.795	-11.824	1.00	67.04	A16S
ATOM	2386	O2*	G	A	122	132.057	73.332	-10.593	1.00	67.04	A16S
ATOM	2387	C3*	G	A	122	130.226	73.122	-12.214	1.00	67.04	A16S
ATOM	2388	O3*	G	A	122	129.343	72.912	-11.132	1.00	67.04	A16S
ATOM	2389	P	C	A	123	128.088	73.903	-10.940	1.00	61.13	A16S
ATOM	2390	O1P	C	A	123	127.180	73.309	-9.920	1.00	71.85	A16S
ATOM	2391	O2P	C	A	123	127.550	74.217	-12.306	1.00	71.85	A16S
ATOM	2392	O5*	C	A	123	128.742	75.226	-10.337	1.00	61.13	A16S
ATOM	2393	C5*	C	A	123	129.616	75.160	-9.202	1.00	61.13	A16S
ATOM	2394	C4*	C	A	123	130.380	76.449	-9.062	1.00	61.13	A16S
ATOM	2395	O4*	C	A	123	131.279	76.599	-10.193	1.00	61.13	A16S
ATOM	2396	C1*	C	A	123	131.360	77.970	-10.563	1.00	61.13	A16S
ATOM	2397	N1	C	A	123	130.828	78.128	-11.929	1.00	71.85	A16S
ATOM	2398	C6	C	A	123	130.112	77.129	-12.521	1.00	71.85	A16S
ATOM	2399	C2	C	A	123	131.046	79.332	-12.605	1.00	71.85	A16S
ATOM	2400	O2	C	A	123	131.716	80.216	-12.056	1.00	71.85	A16S
ATOM	2401	N3	C	A	123	130.521	79.504	-13.835	1.00	71.85	A16S
ATOM	2402	C4	C	A	123	129.803	78.531	-14.391	1.00	71.85	A16S
ATOM	2403	N4	C	A	123	129.277	78.749	-15.596	1.00	71.85	A16S
ATOM	2404	C5	C	A	123	129.584	77.289	-13.736	1.00	71.85	A16S
ATOM	2405	C2*	C	A	123	130.516	78.764	-9.570	1.00	61.13	A16S
ATOM	2406	O2*	C	A	123	131.352	79.263	-8.553	1.00	61.13	A16S
ATOM	2407	C3*	C	A	123	129.531	77.704	-9.100	1.00	61.13	A16S
ATOM	2408	O3*	C	A	123	128.927	78.009	-7.865	1.00	61.13	A16S
ATOM	2409	P	G	A	124	127.523	78.795	-7.854	1.00	59.74	A16S
ATOM	2410	O1P	G	A	124	127.117	78.905	-6.416	1.00	57.44	A16S
ATOM	2411	O2P	G	A	124	126.595	78.154	-8.835	1.00	57.44	A16S
ATOM	2412	O5*	G	A	124	127.891	80.251	-8.398	1.00	59.74	A16S
ATOM	2413	C5*	G	A	124	128.723	81.139	-7.623	1.00	59.74	A16S
ATOM	2414	C4*	G	A	124	128.818	82.499	-8.279	1.00	59.74	A16S
ATOM	2415	O4*	G	A	124	129.589	82.398	-9.500	1.00	59.74	A16S
ATOM	2416	C1*	G	A	124	129.100	83.322	-10.459	1.00	59.74	A16S
ATOM	2417	N9	G	A	124	128.623	82.571	-11.614	1.00	57.44	A16S
ATOM	2418	C4	G	A	124	128.448	83.047	-12.885	1.00	57.44	A16S
ATOM	2419	N3	G	A	124	128.703	84.298	-13.296	1.00	57.44	A16S
ATOM	2420	C2	G	A	124	128.415	84.463	-14.572	1.00	57.44	A16S
ATOM	2421	N2	G	A	124	128.617	85.663	-15.138	1.00	57.44	A16S
ATOM	2422	N1	G	A	124	127.912	83.473	-15.383	1.00	57.44	A16S
ATOM	2423	C6	G	A	124	127.636	82.174	-14.976	1.00	57.44	A16S
ATOM	2424	O6	G	A	124	127.150	81.351	-15.782	1.00	57.44	A16S
ATOM	2425	C5	G	A	124	127.954	81.986	-13.610	1.00	57.44	A16S
ATOM	2426	N7	G	A	124	127.836	80.861	-12.814	1.00	57.44	A16S
ATOM	2427	C8	G	A	124	128.246	81.254	-11.640	1.00	57.44	A16S
ATOM	2428	C2*	G	A	124	127.980	84.116	-9.792	1.00	59.74	A16S
ATOM	2429	O2*	G	A	124	128.521	85.273	-9.193	1.00	59.74	A16S
ATOM	2430	C3*	G	A	124	127.516	83.149	-8.717	1.00	59.74	A16S
ATOM	2431	O3*	G	A	124	126.869	83.849	-7.672	1.00	59.74	A16S
ATOM	2432	P	U	A	125	125.265	83.885	-7.626	1.00	59.64	A16S
ATOM	2433	O1P	U	A	125	124.904	84.607	-6.363	1.00	62.70	A16S
ATOM	2434	O2P	U	A	125	124.711	82.534	-7.902	1.00	62.70	A16S
ATOM	2435	O5*	U	A	125	124.858	84.786	-8.865	1.00	59.64	A16S
ATOM	2436	C5*	U	A	125	125.189	86.168	-8.864	1.00	59.64	A16S
ATOM	2437	C4*	U	A	125	124.886	86.765	-10.197	1.00	59.64	A16S
ATOM	2438	O4*	U	A	125	125.710	86.113	-11.192	1.00	59.64	A16S
ATOM	2439	C1*	U	A	125	125.022	86.079	-12.422	1.00	59.64	A16S
ATOM	2440	N1	U	A	125	124.937	84.686	-12.907	1.00	62.70	A16S
ATOM	2441	C6	U	A	125	125.047	83.580	-12.067	1.00	62.70	A16S
ATOM	2442	C2	U	A	125	124.726	84.518	-14.274	1.00	62.70	A16S
ATOM	2443	O2	U	A	125	124.614	85.457	-15.048	1.00	62.70	A16S
ATOM	2444	N3	U	A	125	124.639	83.213	-14.701	1.00	62.70	A16S
ATOM	2445	C4	U	A	125	124.735	82.063	-13.935	1.00	62.70	A16S
ATOM	2446	O4	U	A	125	124.723	80.948	-14.510	1.00	62.70	A16S
ATOM	2447	C5	U	A	125	124.951	82.309	-12.521	1.00	62.70	A16S
ATOM	2448	C2*	U	A	125	123.670	86.767	-12.207	1.00	59.64	A16S
ATOM	2449	O2*	U	A	125	123.828	88.135	-12.542	1.00	59.64	A16S
ATOM	2450	C3*	U	A	125	123.471	86.579	-10.708	1.00	59.64	A16S
ATOM	2451	O3*	U	A	125	122.562	87.513	-10.116	1.00	59.64	A16S
ATOM	2452	P	G	A	126	121.025	87.074	-9.828	1.00	58.13	A16S
ATOM	2453	O1P	G	A	126	120.401	88.183	-9.048	1.00	79.69	A16S
ATOM	2454	O2P	G	A	126	120.984	85.687	-9.287	1.00	79.69	A16S
ATOM	2455	O5*	G	A	126	120.376	87.070	-11.284	1.00	58.13	A16S
ATOM	2456	C5*	G	A	126	120.305	88.290	-12.016	1.00	58.13	A16S
ATOM	2457	C4*	G	A	126	119.955	88.032	-13.443	1.00	58.13	A16S



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ATOM	2458	O4*	G	A	126	120.997	87.253	-14.079	1.00	58.13	A16S
ATOM	2459	C1*	G	A	126	120.435	86.505	-15.145	1.00	58.13	A16S
ATOM	2460	N9	G	A	126	120.839	85.105	-15.019	1.00	79.69	A16S
ATOM	2461	C4	G	A	126	120.892	84.166	-16.031	1.00	79.69	A16S
ATOM	2462	N3	G	A	126	120.558	84.365	-17.324	1.00	79.69	A16S
ATOM	2463	C2	G	A	126	120.732	83.273	-18.056	1.00	79.69	A16S
ATOM	2464	N2	G	A	126	120.446	83.284	-19.362	1.00	79.69	A16S
ATOM	2465	N1	G	A	126	121.200	82.088	-17.566	1.00	79.69	A16S
ATOM	2466	C6	G	A	126	121.562	81.855	-16.246	1.00	79.69	A16S
ATOM	2467	O6	G	A	126	122.010	80.741	-15.915	1.00	79.69	A16S
ATOM	2468	C5	G	A	126	121.365	83.016	-15.438	1.00	79.69	A16S
ATOM	2469	N7	G	A	126	121.584	83.215	-14.083	1.00	79.69	A16S
ATOM	2470	C8	G	A	126	121.256	84.464	-13.879	1.00	79.69	A16S
ATOM	2471	C2*	G	A	126	118.920	86.722	-15.114	1.00	58.13	A16S
ATOM	2472	O2*	G	A	126	118.579	87.677	-16.102	1.00	58.13	A16S
ATOM	2473	C3*	G	A	126	118.698	87.230	-13.688	1.00	58.13	A16S
ATOM	2474	O3*	G	A	126	117.531	88.035	-13.546	1.00	58.13	A16S
ATOM	2475	P	G	A	127	116.071	87.346	-13.582	1.00	62.91	A16S
ATOM	2476	O1P	G	A	127	115.072	88.432	-13.392	1.00	66.25	A16S
ATOM	2477	O2P	G	A	127	116.050	86.158	-12.688	1.00	66.25	A16S
ATOM	2478	O5*	G	A	127	115.923	86.843	-15.086	1.00	62.91	A16S
ATOM	2479	C5*	G	A	127	115.223	85.634	-15.389	1.00	62.91	A16S
ATOM	2480	C4*	G	A	127	115.535	85.203	-16.794	1.00	62.91	A16S
ATOM	2481	O4*	G	A	127	116.953	84.916	-16.911	1.00	62.91	A16S
ATOM	2482	C1*	G	A	127	117.150	83.826	-17.796	1.00	62.91	A16S
ATOM	2483	N9	G	A	127	117.693	82.716	-17.028	1.00	66.25	A16S
ATOM	2484	C4	G	A	127	117.937	81.453	-17.499	1.00	66.25	A16S
ATOM	2485	N3	G	A	127	117.760	81.032	-18.772	1.00	66.25	A16S
ATOM	2486	C2	G	A	127	118.065	79.745	-18.912	1.00	66.25	A16S
ATOM	2487	N2	G	A	127	117.950	79.152	-20.107	1.00	66.25	A16S
ATOM	2488	N1	G	A	127	118.502	78.939	-17.887	1.00	66.25	A16S
ATOM	2489	C6	G	A	127	118.682	79.349	-16.568	1.00	66.25	A16S
ATOM	2490	O6	G	A	127	119.064	78.534	-15.708	1.00	66.25	A16S
ATOM	2491	C5	G	A	127	118.368	80.733	-16.404	1.00	66.25	A16S
ATOM	2492	N7	G	A	127	118.422	81.539	-15.274	1.00	66.25	A16S
ATOM	2493	C8	G	A	127	118.020	82.705	-15.694	1.00	66.25	A16S
ATOM	2494	C2*	G	A	127	115.784	83.430	-18.347	1.00	62.91	A16S
ATOM	2495	O2*	G	A	127	115.588	84.051	-19.600	1.00	62.91	A16S
ATOM	2496	C3*	G	A	127	114.858	83.924	-17.242	1.00	62.91	A16S
ATOM	2497	O3*	G	A	127	113.525	84.155	-17.674	1.00	62.91	A16S
ATOM	2498	P	G	A	128	112.385	83.062	-17.350	1.00	67.25	A16S
ATOM	2499	O1P	G	A	128	111.059	83.701	-17.616	1.00	68.72	A16S
ATOM	2500	O2P	G	A	128	112.672	82.483	-15.997	1.00	68.72	A16S
ATOM	2501	O5*	G	A	128	112.611	81.932	-18.452	1.00	67.25	A16S
ATOM	2502	C5*	G	A	128	112.627	82.282	-19.836	1.00	67.25	A16S
ATOM	2503	C4*	G	A	128	113.027	81.102	-20.665	1.00	67.25	A16S
ATOM	2504	O4*	G	A	128	114.386	80.726	-20.360	1.00	67.25	A16S
ATOM	2505	C1*	G	A	128	114.530	79.319	-20.491	1.00	67.25	A16S
ATOM	2506	N9	G	A	128	114.971	78.790	-19.204	1.00	68.72	A16S
ATOM	2507	C4	G	A	128	115.382	77.500	-18.931	1.00	68.72	A16S
ATOM	2508	N3	G	A	128	115.452	76.477	-19.814	1.00	68.72	A16S
ATOM	2509	C2	G	A	128	115.892	75.366	-19.243	1.00	68.72	A16S
ATOM	2510	N2	G	A	128	116.035	74.244	-19.963	1.00	68.72	A16S
ATOM	2511	N1	G	A	128	116.227	75.274	-17.923	1.00	68.72	A16S
ATOM	2512	C6	G	A	128	116.162	76.317	-17.004	1.00	68.72	A16S
ATOM	2513	O6	G	A	128	116.495	76.131	-15.831	1.00	68.72	A16S
ATOM	2514	C5	G	A	128	115.700	77.498	-17.591	1.00	68.72	A16S
ATOM	2515	N7	G	A	128	115.497	78.752	-17.029	1.00	68.72	A16S
ATOM	2516	C8	G	A	128	115.059	79.484	-18.017	1.00	68.72	A16S
ATOM	2517	C2*	G	A	128	113.176	78.755	-20.922	1.00	67.25	A16S
ATOM	2518	O2*	G	A	128	113.130	78.604	-22.329	1.00	67.25	A16S
ATOM	2519	C3*	G	A	128	112.233	79.837	-20.433	1.00	67.25	A16S
ATOM	2520	O3*	G	A	128	111.055	79.844	-21.184	1.00	67.25	A16S
ATOM	2521	P	U	A	129	109.753	79.161	-20.580	1.00	69.63	A16S
ATOM	2522	O1P	U	A	129	108.684	79.312	-21.582	1.00	65.48	A16S
ATOM	2523	O2P	U	A	129	109.551	79.684	-19.208	1.00	65.48	A16S
ATOM	2524	O5*	U	A	129	110.145	77.625	-20.521	1.00	69.63	A16S
ATOM	2525	C5*	U	A	129	110.354	76.889	-21.736	1.00	69.63	A16S
ATOM	2526	C4*	U	A	129	110.585	75.431	-21.428	1.00	69.63	A16S
ATOM	2527	O4*	U	A	129	111.857	75.254	-20.759	1.00	69.63	A16S
ATOM	2528	C1*	U	A	129	111.768	74.161	-19.878	1.00	69.63	A16S
ATOM	2529	N1	U	A	129	112.245	74.570	-18.550	1.00	65.48	A16S
ATOM	2530	C6	U	A	129	112.008	75.815	-18.041	1.00	65.48	A16S
ATOM	2531	C2	U	A	129	112.956	73.632	-17.826	1.00	65.48	A16S
ATOM	2532	O2	U	A	129	113.202	72.499	-18.253	1.00	65.48	A16S
ATOM	2533	N3	U	A	129	113.377	74.054	-16.592	1.00	65.48	A16S
ATOM	2534	C4	U	A	129	113.172	75.283	-16.027	1.00	65.48	A16S



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ATOM	2535	O4	U	A 129	113.587	75.497	-14.887	1.00	65.48	A16S
ATOM	2536	C5	U	A 129	112.439	76.195	-16.839	1.00	65.48	A16S
ATOM	2537	C2*	U	A 129	110.339	73.613	-19.925	1.00	69.63	A16S
ATOM	2538	O2*	U	A 129	110.324	72.499	-20.797	1.00	69.63	A16S
ATOM	2539	C3*	U	A 129	109.564	74.789	-20.504	1.00	69.63	A16S
ATOM	2540	O3*	U	A 129	108.458	74.345	-21.277	1.00	69.63	A16S
ATOM	2541	P	G	A 129A	106.989	74.277	-20.633	1.00	74.40	A16S
ATOM	2542	O1P	G	A 129A	106.412	75.639	-20.680	1.00	77.15	A16S
ATOM	2543	O2P	G	A 129A	107.061	73.554	-19.334	1.00	77.15	A16S
ATOM	2544	O5*	G	A 129A	106.180	73.397	-21.687	1.00	74.40	A16S
ATOM	2545	C5*	G	A 129A	106.812	72.294	-22.372	1.00	74.40	A16S
ATOM	2546	C4*	G	A 129A	106.817	72.558	-23.852	1.00	74.40	A16S
ATOM	2547	O4*	G	A 129A	105.447	72.764	-24.234	1.00	74.40	A16S
ATOM	2548	C1*	G	A 129A	105.378	73.727	-25.254	1.00	74.40	A16S
ATOM	2549	N9	G	A 129A	104.222	74.584	-25.017	1.00	77.15	A16S
ATOM	2550	C4	G	A 129A	103.180	74.772	-25.888	1.00	77.15	A16S
ATOM	2551	N3	G	A 129A	103.052	74.195	-27.099	1.00	77.15	A16S
ATOM	2552	C2	G	A 129A	101.940	74.564	-27.708	1.00	77.15	A16S
ATOM	2553	N2	G	A 129A	101.651	74.079	-28.933	1.00	77.15	A16S
ATOM	2554	N1	G	A 129A	101.028	75.435	-27.165	1.00	77.15	A16S
ATOM	2555	C6	G	A 129A	101.143	76.045	-25.915	1.00	77.15	A16S
ATOM	2556	O6	G	A 129A	100.262	76.825	-25.518	1.00	77.15	A16S
ATOM	2557	C5	G	A 129A	102.328	75.651	-25.254	1.00	77.15	A16S
ATOM	2558	N7	G	A 129A	102.818	76.003	-24.003	1.00	77.15	A16S
ATOM	2559	C8	G	A 129A	103.945	75.348	-23.905	1.00	77.15	A16S
ATOM	2560	C2*	G	A 129A	106.735	74.415	-25.413	1.00	74.40	A16S
ATOM	2561	O2*	G	A 129A	107.218	74.180	-26.712	1.00	74.40	A16S
ATOM	2562	C3*	G	A 129A	107.548	73.836	-24.250	1.00	74.40	A16S
ATOM	2563	O3*	G	A 129A	108.962	73.585	-24.495	1.00	74.40	A16S
ATOM	2564	P	A	A 130	109.437	72.691	-25.767	1.00	67.56	A16S
ATOM	2565	O1P	A	A 130	110.565	73.372	-26.438	1.00	90.39	A16S
ATOM	2566	O2P	A	A 130	108.281	72.229	-26.563	1.00	90.39	A16S
ATOM	2567	O5*	A	A 130	110.033	71.369	-25.136	1.00	67.56	A16S
ATOM	2568	C5*	A	A 130	109.771	70.110	-25.763	1.00	67.56	A16S
ATOM	2569	C4*	A	A 130	110.002	68.998	-24.789	1.00	67.56	A16S
ATOM	2570	O4*	A	A 130	111.409	68.957	-24.465	1.00	67.56	A16S
ATOM	2571	C1*	A	A 130	111.609	69.186	-23.088	1.00	67.56	A16S
ATOM	2572	N9	A	A 130	112.772	70.062	-23.006	1.00	90.39	A16S
ATOM	2573	C4	A	A 130	113.990	69.798	-22.428	1.00	90.39	A16S
ATOM	2574	N3	A	A 130	114.350	68.706	-21.742	1.00	90.39	A16S
ATOM	2575	C2	A	A 130	115.629	68.785	-21.378	1.00	90.39	A16S
ATOM	2576	N1	A	A 130	116.516	69.758	-21.602	1.00	90.39	A16S
ATOM	2577	C6	A	A 130	116.116	70.845	-22.291	1.00	90.39	A16S
ATOM	2578	N6	A	A 130	116.991	71.827	-22.516	1.00	90.39	A16S
ATOM	2579	C5	A	A 130	114.791	70.881	-22.734	1.00	90.39	A16S
ATOM	2580	N7	A	A 130	114.083	71.828	-23.457	1.00	90.39	A16S
ATOM	2581	C8	A	A 130	112.889	71.304	-23.575	1.00	90.39	A16S
ATOM	2582	C2*	A	A 130	110.298	69.755	-22.544	1.00	67.56	A16S
ATOM	2583	O2*	A	A 130	110.137	69.403	-21.190	1.00	67.56	A16S
ATOM	2584	C3*	A	A 130	109.262	69.106	-23.468	1.00	67.56	A16S
ATOM	2585	O3*	A	A 130	108.980	67.746	-23.146	1.00	67.56	A16S
ATOM	2586	P	C	A 131	107.954	67.370	-21.973	1.00	78.15	A16S
ATOM	2587	O1P	C	A 131	107.325	66.092	-22.415	1.00	60.12	A16S
ATOM	2588	O2P	C	A 131	107.094	68.524	-21.556	1.00	60.12	A16S
ATOM	2589	O5*	C	A 131	108.933	67.052	-20.772	1.00	78.15	A16S
ATOM	2590	C5*	C	A 131	108.440	66.934	-19.467	1.00	78.15	A16S
ATOM	2591	C4*	C	A 131	109.451	66.239	-18.634	1.00	78.15	A16S
ATOM	2592	O4*	C	A 131	110.664	67.014	-18.624	1.00	78.15	A16S
ATOM	2593	C1*	C	A 131	111.227	66.986	-17.329	1.00	78.15	A16S
ATOM	2594	N1	C	A 131	111.215	68.354	-16.796	1.00	60.12	A16S
ATOM	2595	C6	C	A 131	110.592	69.368	-17.466	1.00	60.12	A16S
ATOM	2596	C2	C	A 131	111.847	68.600	-15.569	1.00	60.12	A16S
ATOM	2597	O2	C	A 131	112.436	67.665	-14.996	1.00	60.12	A16S
ATOM	2598	N3	C	A 131	111.806	69.843	-15.042	1.00	60.12	A16S
ATOM	2599	C4	C	A 131	111.189	70.823	-15.699	1.00	60.12	A16S
ATOM	2600	N4	C	A 131	111.182	72.035	-15.142	1.00	60.12	A16S
ATOM	2601	C5	C	A 131	110.554	70.604	-16.960	1.00	60.12	A16S
ATOM	2602	C2*	C	A 131	110.374	66.052	-16.467	1.00	78.15	A16S
ATOM	2603	O2*	C	A 131	110.935	64.760	-16.470	1.00	78.15	A16S
ATOM	2604	C3*	C	A 131	109.041	66.115	-17.190	1.00	78.15	A16S
ATOM	2605	O3*	C	A 131	108.277	64.940	-17.051	1.00	78.15	A16S
ATOM	2606	P	C	A 132	107.179	64.845	-15.898	1.00	74.06	A16S
ATOM	2607	O1P	C	A 132	106.253	63.786	-16.391	1.00	72.01	A16S
ATOM	2608	O2P	C	A 132	106.651	66.196	-15.571	1.00	72.01	A16S
ATOM	2609	O5*	C	A 132	108.027	64.339	-14.651	1.00	74.06	A16S
ATOM	2610	C5*	C	A 132	108.761	63.112	-14.734	1.00	74.06	A16S
ATOM	2611	C4*	C	A 132	109.720	63.002	-13.585	1.00	74.06	A16S



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ATOM	2612	O4*	C	A	132	110.694	64.059	-13.688	1.00	74.06	A16S
ATOM	2613	C1*	C	A	132	111.091	64.461	-12.394	1.00	74.06	A16S
ATOM	2614	N1	C	A	132	110.777	65.884	-12.236	1.00	72.01	A16S
ATOM	2615	C6	C	A	132	109.815	66.488	-12.996	1.00	72.01	A16S
ATOM	2616	C2	C	A	132	111.485	66.612	-11.285	1.00	72.01	A16S
ATOM	2617	O2	C	A	132	112.352	66.029	-10.617	1.00	72.01	A16S
ATOM	2618	N3	C	A	132	111.214	67.922	-11.118	1.00	72.01	A16S
ATOM	2619	C4	C	A	132	110.280	68.506	-11.865	1.00	72.01	A16S
ATOM	2620	N4	C	A	132	110.053	69.803	-11.673	1.00	72.01	A16S
ATOM	2621	C5	C	A	132	109.537	67.786	-12.845	1.00	72.01	A16S
ATOM	2622	C2*	C	A	132	110.340	63.605	-11.380	1.00	74.06	A16S
ATOM	2623	O2*	C	A	132	111.155	62.519	-10.991	1.00	74.06	A16S
ATOM	2624	C3*	C	A	132	109.134	63.176	-12.195	1.00	74.06	A16S
ATOM	2625	O3*	C	A	132	108.571	61.979	-11.704	1.00	74.06	A16S
ATOM	2626	P	U	A	133	107.279	62.050	-10.759	1.00	72.76	A16S
ATOM	2627	O1P	U	A	133	106.825	60.645	-10.565	1.00	66.58	A16S
ATOM	2628	O2P	U	A	133	106.353	63.044	-11.373	1.00	66.58	A16S
ATOM	2629	O5*	U	A	133	107.851	62.609	-9.381	1.00	72.76	A16S
ATOM	2630	C5*	U	A	133	108.990	61.997	-8.782	1.00	72.76	A16S
ATOM	2631	C4*	U	A	133	109.587	62.899	-7.739	1.00	72.76	A16S
ATOM	2632	O4*	U	A	133	110.122	64.103	-8.345	1.00	72.76	A16S
ATOM	2633	C1*	U	A	133	110.036	65.183	-7.420	1.00	72.76	A16S
ATOM	2634	N1	U	A	133	109.274	66.289	-8.028	1.00	66.58	A16S
ATOM	2635	C6	U	A	133	108.637	66.150	-9.241	1.00	66.58	A16S
ATOM	2636	C2	U	A	133	109.209	67.487	-7.329	1.00	66.58	A16S
ATOM	2637	O2	U	A	133	109.762	67.670	-6.261	1.00	66.58	A16S
ATOM	2638	N3	U	A	133	108.472	68.469	-7.935	1.00	66.58	A16S
ATOM	2639	C4	U	A	133	107.820	68.396	-9.146	1.00	66.58	A16S
ATOM	2640	O4	U	A	133	107.281	69.413	-9.603	1.00	66.58	A16S
ATOM	2641	C5	U	A	133	107.932	67.134	-9.807	1.00	66.58	A16S
ATOM	2642	C2*	U	A	133	109.371	64.642	-6.154	1.00	72.76	A16S
ATOM	2643	O2*	U	A	133	110.366	64.268	-5.231	1.00	72.76	A16S
ATOM	2644	C3*	U	A	133	108.635	63.427	-6.690	1.00	72.76	A16S
ATOM	2645	O3*	U	A	133	108.392	62.473	-5.688	1.00	72.76	A16S
ATOM	2646	P	A	A	134	106.880	62.040	-5.383	1.00	79.04	A16S
ATOM	2647	O1P	A	A	134	106.372	61.344	-6.628	1.00	64.74	A16S
ATOM	2648	O2P	A	A	134	106.167	63.247	-4.855	1.00	64.74	A16S
ATOM	2649	O5*	A	A	134	107.018	61.018	-4.169	1.00	79.04	A16S
ATOM	2650	C5*	A	A	134	107.142	59.598	-4.369	1.00	79.04	A16S
ATOM	2651	C4*	A	A	134	107.737	58.981	-3.137	1.00	79.04	A16S
ATOM	2652	O4*	A	A	134	109.120	59.401	-3.057	1.00	79.04	A16S
ATOM	2653	C1*	A	A	134	109.454	59.708	-1.719	1.00	79.04	A16S
ATOM	2654	N9	A	A	134	109.888	61.109	-1.668	1.00	64.74	A16S
ATOM	2655	C4	A	A	134	110.504	61.731	-0.606	1.00	64.74	A16S
ATOM	2656	N3	A	A	134	110.841	61.185	0.577	1.00	64.74	A16S
ATOM	2657	C2	A	A	134	111.413	62.091	1.368	1.00	64.74	A16S
ATOM	2658	N1	A	A	134	111.667	63.386	1.132	1.00	64.74	A16S
ATOM	2659	C6	A	A	134	111.314	63.904	-0.063	1.00	64.74	A16S
ATOM	2660	N6	A	A	134	111.566	65.195	-0.291	1.00	64.74	A16S
ATOM	2661	C5	A	A	134	110.698	63.044	-0.997	1.00	64.74	A16S
ATOM	2662	N7	A	A	134	110.222	63.248	-2.285	1.00	64.74	A16S
ATOM	2663	C8	A	A	134	109.758	62.075	-2.640	1.00	64.74	A16S
ATOM	2664	C2*	A	A	134	108.231	59.401	-0.846	1.00	79.04	A16S
ATOM	2665	O2*	A	A	134	108.354	58.118	-0.274	1.00	79.04	A16S
ATOM	2666	C3*	A	A	134	107.095	59.480	-1.853	1.00	79.04	A16S
ATOM	2667	O3*	A	A	134	105.956	58.705	-1.488	1.00	79.04	A16S
ATOM	2668	P	C	A	135	104.572	59.447	-1.118	1.00	71.40	A16S
ATOM	2669	O1P	C	A	135	103.509	58.412	-1.036	1.00	85.90	A16S
ATOM	2670	O2P	C	A	135	104.387	60.601	-2.022	1.00	85.90	A16S
ATOM	2671	O5*	C	A	135	104.826	60.045	0.335	1.00	71.40	A16S
ATOM	2672	C5*	C	A	135	105.153	59.184	1.424	1.00	71.40	A16S
ATOM	2673	C4*	C	A	135	105.821	59.964	2.518	1.00	71.40	A16S
ATOM	2674	O4*	C	A	135	107.109	60.433	2.048	1.00	71.40	A16S
ATOM	2675	C1*	C	A	135	107.411	61.681	2.654	1.00	71.40	A16S
ATOM	2676	N1	C	A	135	107.567	62.705	1.605	1.00	85.90	A16S
ATOM	2677	C6	C	A	135	106.981	62.560	0.376	1.00	85.90	A16S
ATOM	2678	C2	C	A	135	108.307	63.848	1.899	1.00	85.90	A16S
ATOM	2679	O2	C	A	135	108.839	63.941	3.015	1.00	85.90	A16S
ATOM	2680	N3	C	A	135	108.422	64.823	0.964	1.00	85.90	A16S
ATOM	2681	C4	C	A	135	107.833	64.678	-0.229	1.00	85.90	A16S
ATOM	2682	N4	C	A	135	107.965	65.668	-1.129	1.00	85.90	A16S
ATOM	2683	C5	C	A	135	107.083	63.514	-0.559	1.00	85.90	A16S
ATOM	2684	C2*	C	A	135	106.250	62.034	3.584	1.00	71.40	A16S
ATOM	2685	O2*	C	A	135	106.536	61.625	4.904	1.00	71.40	A16S
ATOM	2686	C3*	C	A	135	105.115	61.231	2.974	1.00	71.40	A16S
ATOM	2687	O3*	C	A	135	104.060	61.013	3.900	1.00	71.40	A16S
ATOM	2688	P	C	A	136	102.638	61.717	3.636	1.00	82.67	A16S



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ATOM	2689	O1P	C	A	136	101.661	61.233	4.648	1.00	66.16	A16S
ATOM	2690	O2P	C	A	136	102.343	61.548	2.185	1.00	66.16	A16S
ATOM	2691	O5*	C	A	136	102.918	63.265	3.879	1.00	82.67	A16S
ATOM	2692	C5*	C	A	136	103.534	63.738	5.092	1.00	82.67	A16S
ATOM	2693	C4*	C	A	136	103.578	65.251	5.085	1.00	82.67	A16S
ATOM	2694	O4*	C	A	136	104.563	65.717	4.122	1.00	82.67	A16S
ATOM	2695	C1*	C	A	136	104.087	66.879	3.465	1.00	82.67	A16S
ATOM	2696	N1	C	A	136	103.909	66.575	2.030	1.00	66.16	A16S
ATOM	2697	C6	C	A	136	103.954	65.290	1.568	1.00	66.16	A16S
ATOM	2698	C2	C	A	136	103.686	67.635	1.135	1.00	66.16	A16S
ATOM	2699	O2	C	A	136	103.667	68.805	1.571	1.00	66.16	A16S
ATOM	2700	N3	C	A	136	103.503	67.365	-0.183	1.00	66.16	A16S
ATOM	2701	C4	C	A	136	103.550	66.110	-0.617	1.00	66.16	A16S
ATOM	2702	N4	C	A	136	103.366	65.898	-1.915	1.00	66.16	A16S
ATOM	2703	C5	C	A	136	103.787	65.016	0.265	1.00	66.16	A16S
ATOM	2704	C2*	C	A	136	102.765	67.264	4.120	1.00	82.67	A16S
ATOM	2705	O2*	C	A	136	103.021	68.178	5.161	1.00	82.67	A16S
ATOM	2706	C3*	C	A	136	102.287	65.918	4.636	1.00	82.67	A16S
ATOM	2707	O3*	C	A	136	101.311	66.015	5.662	1.00	82.67	A16S
ATOM	2708	P	C	A	137	99.773	65.703	5.303	1.00	85.05	A16S
ATOM	2709	O1P	C	A	137	99.007	65.480	6.564	1.00	76.61	A16S
ATOM	2710	O2P	C	A	137	99.755	64.661	4.226	1.00	76.61	A16S
ATOM	2711	O5*	C	A	137	99.271	67.064	4.662	1.00	85.05	A16S
ATOM	2712	C5*	C	A	137	99.377	68.288	5.389	1.00	85.05	A16S
ATOM	2713	C4*	C	A	137	98.976	69.426	4.504	1.00	85.05	A16S
ATOM	2714	O4*	C	A	137	99.935	69.541	3.422	1.00	85.05	A16S
ATOM	2715	C1*	C	A	137	99.267	69.942	2.238	1.00	85.05	A16S
ATOM	2716	N1	C	A	137	99.508	68.951	1.172	1.00	76.61	A16S
ATOM	2717	C6	C	A	137	100.077	67.733	1.427	1.00	76.61	A16S
ATOM	2718	C2	C	A	137	99.136	69.294	-0.129	1.00	76.61	A16S
ATOM	2719	O2	C	A	137	98.615	70.406	-0.327	1.00	76.61	A16S
ATOM	2720	N3	C	A	137	99.345	68.417	-1.134	1.00	76.61	A16S
ATOM	2721	C4	C	A	137	99.898	67.235	-0.880	1.00	76.61	A16S
ATOM	2722	N4	C	A	137	100.073	66.404	-1.906	1.00	76.61	A16S
ATOM	2723	C5	C	A	137	100.290	66.852	0.439	1.00	76.61	A16S
ATOM	2724	C2*	C	A	137	97.782	70.092	2.559	1.00	85.05	A16S
ATOM	2725	O2*	C	A	137	97.476	71.451	2.793	1.00	85.05	A16S
ATOM	2726	C3*	C	A	137	97.656	69.212	3.791	1.00	85.05	A16S
ATOM	2727	O3*	C	A	137	96.534	69.509	4.590	1.00	85.05	A16S
ATOM	2728	P	G	A	138	95.136	68.803	4.251	1.00	84.00	A16S
ATOM	2729	O1P	G	A	138	94.215	69.211	5.326	1.00	80.09	A16S
ATOM	2730	O2P	G	A	138	95.363	67.362	3.995	1.00	80.09	A16S
ATOM	2731	O5*	G	A	138	94.693	69.496	2.888	1.00	84.00	A16S
ATOM	2732	C5*	G	A	138	94.329	70.879	2.876	1.00	84.00	A16S
ATOM	2733	C4*	G	A	138	93.728	71.249	1.554	1.00	84.00	A16S
ATOM	2734	O4*	G	A	138	94.761	71.301	0.546	1.00	84.00	A16S
ATOM	2735	C1*	G	A	138	94.229	70.886	-0.700	1.00	84.00	A16S
ATOM	2736	N9	G	A	138	94.950	69.701	-1.132	1.00	80.09	A16S
ATOM	2737	C4	G	A	138	95.002	69.209	-2.407	1.00	80.09	A16S
ATOM	2738	N3	G	A	138	94.421	69.759	-3.488	1.00	80.09	A16S
ATOM	2739	C2	G	A	138	94.629	69.041	-4.575	1.00	80.09	A16S
ATOM	2740	N2	G	A	138	94.121	69.448	-5.743	1.00	80.09	A16S
ATOM	2741	N1	G	A	138	95.349	67.871	-4.596	1.00	80.09	A16S
ATOM	2742	C6	G	A	138	95.955	67.287	-3.487	1.00	80.09	A16S
ATOM	2743	O6	G	A	138	96.575	66.221	-3.605	1.00	80.09	A16S
ATOM	2744	C5	G	A	138	95.746	68.053	-2.322	1.00	80.09	A16S
ATOM	2745	N7	G	A	138	96.177	67.840	-1.022	1.00	80.09	A16S
ATOM	2746	C8	G	A	138	95.683	68.844	-0.350	1.00	80.09	A16S
ATOM	2747	C2*	G	A	138	92.755	70.548	-0.497	1.00	84.00	A16S
ATOM	2748	O2*	G	A	138	91.962	71.639	-0.920	1.00	84.00	A16S
ATOM	2749	C3*	G	A	138	92.710	70.270	1.001	1.00	84.00	A16S
ATOM	2750	O3*	G	A	138	91.419	70.444	1.564	1.00	84.00	A16S
ATOM	2751	P	G	A	139	90.398	69.211	1.572	1.00	80.18	A16S
ATOM	2752	O1P	G	A	139	89.173	69.686	2.258	1.00	92.95	A16S
ATOM	2753	O2P	G	A	139	91.118	68.025	2.102	1.00	92.95	A16S
ATOM	2754	O5*	G	A	139	90.083	68.994	0.024	1.00	80.18	A16S
ATOM	2755	C5*	G	A	139	89.461	70.047	-0.722	1.00	80.18	A16S
ATOM	2756	C4*	G	A	139	89.332	69.689	-2.182	1.00	80.18	A16S
ATOM	2757	O4*	G	A	139	90.646	69.607	-2.796	1.00	80.18	A16S
ATOM	2758	C1*	G	A	139	90.607	68.694	-3.886	1.00	80.18	A16S
ATOM	2759	N9	G	A	139	91.526	67.588	-3.616	1.00	92.95	A16S
ATOM	2760	C4	G	A	139	91.957	66.646	-4.526	1.00	92.95	A16S
ATOM	2761	N3	G	A	139	91.650	66.612	-5.843	1.00	92.95	A16S
ATOM	2762	C2	G	A	139	92.189	65.563	-6.448	1.00	92.95	A16S
ATOM	2763	N2	G	A	139	92.000	65.376	-7.761	1.00	92.95	A16S
ATOM	2764	N1	G	A	139	92.955	64.621	-5.812	1.00	92.95	A16S
ATOM	2765	C6	G	A	139	93.283	64.635	-4.462	1.00	92.95	A16S



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ATOM	2766	O6	G	A	139	93.978	63.729	-3.991	1.00	92.95	A16S
ATOM	2767	C5	G	A	139	92.724	65.761	-3.800	1.00	92.95	A16S
ATOM	2768	N7	G	A	139	92.805	66.154	-2.471	1.00	92.95	A16S
ATOM	2769	C8	G	A	139	92.090	67.245	-2.409	1.00	92.95	A16S
ATOM	2770	C2*	G	A	139	89.174	68.166	-3.987	1.00	80.18	A16S
ATOM	2771	O2*	G	A	139	88.469	68.904	-4.969	1.00	80.18	A16S
ATOM	2772	C3*	G	A	139	88.670	68.372	-2.557	1.00	80.18	A16S
ATOM	2773	O3*	G	A	139	87.240	68.376	-2.448	1.00	80.18	A16S
ATOM	2774	P	A	A	140	86.458	67.002	-2.073	1.00	99.91	A16S
ATOM	2775	O1P	A	A	140	85.031	67.377	-1.835	1.00	85.18	A16S
ATOM	2776	O2P	A	A	140	87.200	66.254	-1.005	1.00	85.18	A16S
ATOM	2777	O5*	A	A	140	86.539	66.150	-3.423	1.00	99.91	A16S
ATOM	2778	C5*	A	A	140	86.027	66.685	-4.658	1.00	99.91	A16S
ATOM	2779	C4*	A	A	140	86.242	65.711	-5.785	1.00	99.91	A16S
ATOM	2780	O4*	A	A	140	87.655	65.625	-6.102	1.00	99.91	A16S
ATOM	2781	C1*	A	A	140	87.975	64.303	-6.515	1.00	99.91	A16S
ATOM	2782	N9	A	A	140	88.981	63.749	-5.602	1.00	85.18	A16S
ATOM	2783	C4	A	A	140	89.831	62.703	-5.877	1.00	85.18	A16S
ATOM	2784	N3	A	A	140	89.896	61.980	-7.008	1.00	85.18	A16S
ATOM	2785	C2	A	A	140	90.864	61.065	-6.924	1.00	85.18	A16S
ATOM	2786	N1	A	A	140	91.709	60.814	-5.918	1.00	85.18	A16S
ATOM	2787	C6	A	A	140	91.617	61.558	-4.797	1.00	85.18	A16S
ATOM	2788	N6	A	A	140	92.465	61.312	-3.799	1.00	85.18	A16S
ATOM	2789	C5	A	A	140	90.628	62.557	-4.754	1.00	85.18	A16S
ATOM	2790	N7	A	A	140	90.272	63.475	-3.777	1.00	85.18	A16S
ATOM	2791	C8	A	A	140	89.291	64.154	-4.325	1.00	85.18	A16S
ATOM	2792	C2*	A	A	140	86.683	63.492	-6.502	1.00	99.91	A16S
ATOM	2793	O2*	A	A	140	86.127	63.463	-7.803	1.00	99.91	A16S
ATOM	2794	C3*	A	A	140	85.850	64.276	-5.498	1.00	99.91	A16S
ATOM	2795	O3*	A	A	140	84.465	64.029	-5.606	1.00	99.91	A16S
ATOM	2796	P	A	A	141	83.783	62.982	-4.596	1.00	121.37	A16S
ATOM	2797	O1P	A	A	141	82.314	63.089	-4.785	1.00	80.43	A16S
ATOM	2798	O2P	A	A	141	84.365	63.208	-3.250	1.00	80.43	A16S
ATOM	2799	O5*	A	A	141	84.286	61.553	-5.106	1.00	121.37	A16S
ATOM	2800	C5*	A	A	141	83.943	61.078	-6.425	1.00	121.37	A16S
ATOM	2801	C4*	A	A	141	84.755	59.851	-6.802	1.00	121.37	A16S
ATOM	2802	O4*	A	A	141	86.167	60.185	-6.905	1.00	121.37	A16S
ATOM	2803	C1*	A	A	141	86.953	59.039	-6.598	1.00	121.37	A16S
ATOM	2804	N9	A	A	141	87.786	59.309	-5.422	1.00	80.43	A16S
ATOM	2805	C4	A	A	141	88.896	58.586	-5.049	1.00	80.43	A16S
ATOM	2806	N3	A	A	141	89.452	57.549	-5.702	1.00	80.43	A16S
ATOM	2807	C2	A	A	141	90.507	57.087	-5.035	1.00	80.43	A16S
ATOM	2808	N1	A	A	141	91.029	57.510	-3.875	1.00	80.43	A16S
ATOM	2809	C6	A	A	141	90.447	58.553	-3.242	1.00	80.43	A16S
ATOM	2810	N6	A	A	141	90.964	58.965	-2.078	1.00	80.43	A16S
ATOM	2811	C5	A	A	141	89.321	59.137	-3.852	1.00	80.43	A16S
ATOM	2812	N7	A	A	141	88.513	60.205	-3.491	1.00	80.43	A16S
ATOM	2813	C8	A	A	141	87.627	60.271	-4.454	1.00	80.43	A16S
ATOM	2814	C2*	A	A	141	85.990	57.896	-6.305	1.00	121.37	A16S
ATOM	2815	O2*	A	A	141	85.778	57.152	-7.490	1.00	121.37	A16S
ATOM	2816	C3*	A	A	141	84.747	58.655	-5.863	1.00	121.37	A16S
ATOM	2817	O3*	A	A	141	83.595	57.835	-5.952	1.00	121.37	A16S
ATOM	2818	P	G	A	142	83.200	56.895	-4.699	1.00	109.54	A16S
ATOM	2819	O1P	G	A	142	81.878	56.308	-5.059	1.00	75.84	A16S
ATOM	2820	O2P	G	A	142	83.343	57.686	-3.435	1.00	75.84	A16S
ATOM	2821	O5*	G	A	142	84.313	55.743	-4.690	1.00	109.54	A16S
ATOM	2822	C5*	G	A	142	84.509	54.923	-5.855	1.00	109.54	A16S
ATOM	2823	C4*	G	A	142	85.736	54.042	-5.725	1.00	109.54	A16S
ATOM	2824	O4*	G	A	142	86.952	54.829	-5.641	1.00	109.54	A16S
ATOM	2825	C1*	G	A	142	87.947	54.089	-4.949	1.00	109.54	A16S
ATOM	2826	N9	G	A	142	88.328	54.821	-3.746	1.00	75.84	A16S
ATOM	2827	C4	G	A	142	89.428	54.589	-2.946	1.00	75.84	A16S
ATOM	2828	N3	G	A	142	90.390	53.666	-3.157	1.00	75.84	A16S
ATOM	2829	C2	G	A	142	91.301	53.669	-2.191	1.00	75.84	A16S
ATOM	2830	N2	G	A	142	92.334	52.817	-2.236	1.00	75.84	A16S
ATOM	2831	N1	G	A	142	91.265	54.509	-1.113	1.00	75.84	A16S
ATOM	2832	C6	G	A	142	90.286	55.471	-0.882	1.00	75.84	A16S
ATOM	2833	O6	G	A	142	90.346	56.189	0.126	1.00	75.84	A16S
ATOM	2834	C5	G	A	142	89.312	55.479	-1.902	1.00	75.84	A16S
ATOM	2835	N7	G	A	142	88.190	56.277	-2.055	1.00	75.84	A16S
ATOM	2836	C8	G	A	142	87.642	55.856	-3.162	1.00	75.84	A16S
ATOM	2837	C2*	G	A	142	87.327	52.744	-4.577	1.00	109.54	A16S
ATOM	2838	O2*	G	A	142	87.613	51.822	-5.605	1.00	109.54	A16S
ATOM	2839	C3*	G	A	142	85.840	53.074	-4.560	1.00	109.54	A16S
ATOM	2840	O3*	G	A	142	85.067	51.896	-4.768	1.00	109.54	A16S
ATOM	2841	P	A	A	143	84.734	50.929	-3.523	1.00	126.32	A16S
ATOM	2842	O1P	A	A	143	83.832	49.888	-4.059	1.00	90.64	A16S



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ATOM	2843	O2P	A	A 143	84.329	51.724	-2.326	1.00	90.64	A16S
ATOM	2844	O5*	A	A 143	86.117	50.226	-3.175	1.00	126.32	A16S
ATOM	2845	C5*	A	A 143	86.670	49.217	-4.036	1.00	126.32	A16S
ATOM	2846	C4*	A	A 143	87.876	48.593	-3.384	1.00	126.32	A16S
ATOM	2847	O4*	A	A 143	88.874	49.623	-3.166	1.00	126.32	A16S
ATOM	2848	C1*	A	A 143	89.498	49.432	-1.911	1.00	126.32	A16S
ATOM	2849	N9	A	A 143	89.152	50.573	-1.066	1.00	90.64	A16S
ATOM	2850	C4	A	A 143	89.863	51.032	0.016	1.00	90.64	A16S
ATOM	2851	N3	A	A 143	91.008	50.527	0.513	1.00	90.64	A16S
ATOM	2852	C2	A	A 143	91.409	51.230	1.578	1.00	90.64	A16S
ATOM	2853	N1	A	A 143	90.837	52.303	2.158	1.00	90.64	A16S
ATOM	2854	C6	A	A 143	89.683	52.784	1.635	1.00	90.64	A16S
ATOM	2855	N6	A	A 143	89.106	53.848	2.217	1.00	90.64	A16S
ATOM	2856	C5	A	A 143	89.153	52.123	0.498	1.00	90.64	A16S
ATOM	2857	N7	A	A 143	88.015	52.346	-0.268	1.00	90.64	A16S
ATOM	2858	C8	A	A 143	88.059	51.402	-1.176	1.00	90.64	A16S
ATOM	2859	C2*	A	A 143	88.975	48.119	-1.332	1.00	126.32	A16S
ATOM	2860	O2*	A	A 143	89.847	47.071	-1.705	1.00	126.32	A16S
ATOM	2861	C3*	A	A 143	87.614	48.011	-2.005	1.00	126.32	A16S
ATOM	2862	O3*	A	A 143	87.135	46.675	-2.082	1.00	126.32	A16S
ATOM	2863	P	G	A 144	86.258	46.078	-0.877	1.00	118.25	A16S
ATOM	2864	O1P	G	A 144	85.233	47.089	-0.512	1.00	96.69	A16S
ATOM	2865	O2P	G	A 144	87.175	45.552	0.167	1.00	96.69	A16S
ATOM	2866	O5*	G	A 144	85.503	44.854	-1.545	1.00	118.25	A16S
ATOM	2867	C5*	G	A 144	84.132	44.969	-1.945	1.00	118.25	A16S
ATOM	2868	C4*	G	A 144	83.876	44.086	-3.130	1.00	118.25	A16S
ATOM	2869	O4*	G	A 144	84.372	44.727	-4.333	1.00	118.25	A16S
ATOM	2870	C1*	G	A 144	84.918	43.749	-5.205	1.00	118.25	A16S
ATOM	2871	N9	G	A 144	86.347	44.011	-5.354	1.00	96.69	A16S
ATOM	2872	C4	G	A 144	87.186	43.394	-6.250	1.00	96.69	A16S
ATOM	2873	N3	G	A 144	86.816	42.485	-7.174	1.00	96.69	A16S
ATOM	2874	C2	G	A 144	87.842	42.037	-7.863	1.00	96.69	A16S
ATOM	2875	N2	G	A 144	87.635	41.123	-8.812	1.00	96.69	A16S
ATOM	2876	N1	G	A 144	89.143	42.451	-7.665	1.00	96.69	A16S
ATOM	2877	C6	G	A 144	89.555	43.381	-6.709	1.00	96.69	A16S
ATOM	2878	O6	G	A 144	90.764	43.664	-6.586	1.00	96.69	A16S
ATOM	2879	C5	G	A 144	88.450	43.878	-5.966	1.00	96.69	A16S
ATOM	2880	N7	G	A 144	88.401	44.811	-4.935	1.00	96.69	A16S
ATOM	2881	C8	G	A 144	87.134	44.866	-4.611	1.00	96.69	A16S
ATOM	2882	C2*	G	A 144	84.707	42.379	-4.555	1.00	118.25	A16S
ATOM	2883	O2*	G	A 144	83.553	41.746	-5.069	1.00	118.25	A16S
ATOM	2884	C3*	G	A 144	84.610	42.757	-3.083	1.00	118.25	A16S
ATOM	2885	O3*	G	A 144	83.981	41.789	-2.254	1.00	118.25	A16S
ATOM	2886	P	G	A 145	84.891	40.831	-1.329	1.00	112.42	A16S
ATOM	2887	O1P	G	A 145	83.986	40.247	-0.305	1.00	103.59	A16S
ATOM	2888	O2P	G	A 145	86.105	41.592	-0.886	1.00	103.59	A16S
ATOM	2889	O5*	G	A 145	85.330	39.664	-2.332	1.00	112.42	A16S
ATOM	2890	C5*	G	A 145	84.330	38.878	-3.021	1.00	112.42	A16S
ATOM	2891	C4*	G	A 145	84.930	38.099	-4.176	1.00	112.42	A16S
ATOM	2892	O4*	G	A 145	85.406	38.995	-5.219	1.00	112.42	A16S
ATOM	2893	C1*	G	A 145	86.502	38.395	-5.903	1.00	112.42	A16S
ATOM	2894	N9	G	A 145	87.695	39.224	-5.710	1.00	103.59	A16S
ATOM	2895	C4	G	A 145	88.893	39.135	-6.398	1.00	103.59	A16S
ATOM	2896	N3	G	A 145	89.159	38.310	-7.432	1.00	103.59	A16S
ATOM	2897	C2	G	A 145	90.404	38.440	-7.859	1.00	103.59	A16S
ATOM	2898	N2	G	A 145	90.833	37.707	-8.890	1.00	103.59	A16S
ATOM	2899	N1	G	A 145	91.322	39.302	-7.307	1.00	103.59	A16S
ATOM	2900	C6	G	A 145	91.077	40.157	-6.236	1.00	103.59	A16S
ATOM	2901	O6	G	A 145	91.989	40.888	-5.795	1.00	103.59	A16S
ATOM	2902	C5	G	A 145	89.737	40.042	-5.781	1.00	103.59	A16S
ATOM	2903	N7	G	A 145	89.077	40.716	-4.764	1.00	103.59	A16S
ATOM	2904	C8	G	A 145	87.871	40.210	-4.766	1.00	103.59	A16S
ATOM	2905	C2*	G	A 145	86.720	37.012	-5.278	1.00	112.42	A16S
ATOM	2906	O2*	G	A 145	86.053	35.996	-6.008	1.00	112.42	A16S
ATOM	2907	C3*	G	A 145	86.120	37.198	-3.892	1.00	112.42	A16S
ATOM	2908	O3*	G	A 145	85.777	35.945	-3.329	1.00	112.42	A16S
ATOM	2909	P	G	A 146	86.919	35.065	-2.615	1.00	113.42	A16S
ATOM	2910	O1P	G	A 146	86.254	33.872	-2.039	1.00	105.29	A16S
ATOM	2911	O2P	G	A 146	87.711	35.956	-1.726	1.00	105.29	A16S
ATOM	2912	O5*	G	A 146	87.854	34.579	-3.817	1.00	113.42	A16S
ATOM	2913	C5*	G	A 146	87.389	33.597	-4.768	1.00	113.42	A16S
ATOM	2914	C4*	G	A 146	88.425	33.353	-5.851	1.00	113.42	A16S
ATOM	2915	O4*	G	A 146	88.749	34.614	-6.495	1.00	113.42	A16S
ATOM	2916	C1*	G	A 146	90.097	34.589	-6.951	1.00	113.42	A16S
ATOM	2917	N9	G	A 146	90.865	35.611	-6.236	1.00	105.29	A16S
ATOM	2918	C4	G	A 146	92.129	36.068	-6.561	1.00	105.29	A16S
ATOM	2919	N3	G	A 146	92.876	35.669	-7.617	1.00	105.29	A16S



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ATOM	2920	C2	G	A	146	94.040	36.289	-7.660	1.00105.29	A16S
ATOM	2921	N2	G	A	146	94.901	36.004	-8.643	1.00105.29	A16S
ATOM	2922	N1	G	A	146	94.442	37.232	-6.741	1.00105.29	A16S
ATOM	2923	C6	G	A	146	93.688	37.663	-5.648	1.00105.29	A16S
ATOM	2924	O6	G	A	146	94.136	38.533	-4.880	1.00105.29	A16S
ATOM	2925	C5	G	A	146	92.440	36.999	-5.588	1.00105.29	A16S
ATOM	2926	N7	G	A	146	91.400	37.127	-4.677	1.00105.29	A16S
ATOM	2927	C8	G	A	146	90.489	36.291	-5.100	1.00105.29	A16S
ATOM	2928	C2*	G	A	146	90.651	33.204	-6.640	1.00113.42	A16S
ATOM	2929	O2*	G	A	146	90.448	32.358	-7.754	1.00113.42	A16S
ATOM	2930	C3*	G	A	146	89.788	32.794	-5.459	1.00113.42	A16S
ATOM	2931	O3*	G	A	146	89.828	31.387	-5.322	1.00113.42	A16S
ATOM	2932	P	G	A	147	91.009	30.709	-4.459	1.00111.61	A16S
ATOM	2933	O1P	G	A	147	90.660	29.261	-4.396	1.00 92.93	A16S
ATOM	2934	O2P	G	A	147	91.192	31.478	-3.194	1.00 92.93	A16S
ATOM	2935	O5*	G	A	147	92.336	30.897	-5.333	1.00111.61	A16S
ATOM	2936	C5*	G	A	147	92.547	30.131	-6.542	1.00111.61	A16S
ATOM	2937	C4*	G	A	147	93.864	30.499	-7.210	1.00111.61	A16S
ATOM	2938	O4*	G	A	147	93.890	31.921	-7.530	1.00111.61	A16S
ATOM	2939	C1*	G	A	147	95.230	32.394	-7.507	1.00111.61	A16S
ATOM	2940	N9	G	A	147	95.379	33.404	-6.458	1.00 92.93	A16S
ATOM	2941	C4	G	A	147	96.511	34.158	-6.206	1.00 92.93	A16S
ATOM	2942	N3	G	A	147	97.668	34.119	-6.905	1.00 92.93	A16S
ATOM	2943	C2	G	A	147	98.572	34.957	-6.419	1.00 92.93	A16S
ATOM	2944	N2	G	A	147	99.778	35.055	-7.006	1.00 92.93	A16S
ATOM	2945	N1	G	A	147	98.362	35.758	-5.325	1.00 92.93	A16S
ATOM	2946	C6	G	A	147	97.185	35.809	-4.585	1.00 92.93	A16S
ATOM	2947	O6	G	A	147	97.106	36.558	-3.605	1.00 92.93	A16S
ATOM	2948	C5	G	A	147	96.199	34.927	-5.107	1.00 92.93	A16S
ATOM	2949	N7	G	A	147	94.898	34.684	-4.689	1.00 92.93	A16S
ATOM	2950	C8	G	A	147	94.452	33.777	-5.517	1.00 92.93	A16S
ATOM	2951	C2*	G	A	147	96.119	31.198	-7.194	1.00111.61	A16S
ATOM	2952	O2*	G	A	147	96.554	30.624	-8.409	1.00111.61	A16S
ATOM	2953	C3*	G	A	147	95.159	30.291	-6.440	1.00111.61	A16S
ATOM	2954	O3*	G	A	147	95.644	28.961	-6.446	1.00111.61	A16S
ATOM	2955	P	G	A	148	96.720	28.515	-5.331	1.00109.79	A16S
ATOM	2956	O1P	G	A	148	96.989	27.064	-5.513	1.00 87.68	A16S
ATOM	2957	O2P	G	A	148	96.266	29.022	-4.011	1.00 87.68	A16S
ATOM	2958	O5*	G	A	148	98.053	29.298	-5.715	1.00109.79	A16S
ATOM	2959	C5*	G	A	148	98.710	29.054	-6.973	1.00109.79	A16S
ATOM	2960	C4*	G	A	148	99.995	29.841	-7.064	1.00109.79	A16S
ATOM	2961	O4*	G	A	148	99.712	31.263	-7.002	1.00109.79	A16S
ATOM	2962	C1*	G	A	148	100.783	31.934	-6.363	1.00109.79	A16S
ATOM	2963	N9	G	A	148	100.270	32.608	-5.177	1.00 87.68	A16S
ATOM	2964	C4	G	A	148	100.943	33.518	-4.393	1.00 87.68	A16S
ATOM	2965	N3	G	A	148	102.200	33.971	-4.598	1.00 87.68	A16S
ATOM	2966	C2	G	A	148	102.574	34.836	-3.663	1.00 87.68	A16S
ATOM	2967	N2	G	A	148	103.795	35.399	-3.718	1.00 87.68	A16S
ATOM	2968	N1	G	A	148	101.778	35.212	-2.609	1.00 87.68	A16S
ATOM	2969	C6	G	A	148	100.484	34.753	-2.379	1.00 87.68	A16S
ATOM	2970	O6	G	A	148	99.852	35.147	-1.392	1.00 87.68	A16S
ATOM	2971	C5	G	A	148	100.069	33.840	-3.378	1.00 87.68	A16S
ATOM	2972	N7	G	A	148	98.867	33.167	-3.530	1.00 87.68	A16S
ATOM	2973	C8	G	A	148	99.032	32.449	-4.607	1.00 87.68	A16S
ATOM	2974	C2*	G	A	148	101.840	30.887	-6.009	1.00109.79	A16S
ATOM	2975	O2*	G	A	148	102.813	30.867	-7.033	1.00109.79	A16S
ATOM	2976	C3*	G	A	148	101.015	29.607	-5.963	1.00109.79	A16S
ATOM	2977	O3*	G	A	148	101.808	28.457	-6.235	1.00109.79	A16S
ATOM	2978	P	A	A	149	102.565	27.698	-5.029	1.00 93.29	A16S
ATOM	2979	O1P	A	A	149	102.772	26.297	-5.497	1.00 87.63	A16S
ATOM	2980	O2P	A	A	149	101.864	27.958	-3.720	1.00 87.63	A16S
ATOM	2981	O5*	A	A	149	104.001	28.386	-4.955	1.00 93.29	A16S
ATOM	2982	C5*	A	A	149	104.770	28.622	-6.145	1.00 93.29	A16S
ATOM	2983	C4*	A	A	149	105.760	29.732	-5.909	1.00 93.29	A16S
ATOM	2984	O4*	A	A	149	105.054	30.957	-5.592	1.00 93.29	A16S
ATOM	2985	C1*	A	A	149	105.781	31.692	-4.626	1.00 93.29	A16S
ATOM	2986	N9	A	A	149	104.899	31.957	-3.482	1.00 87.63	A16S
ATOM	2987	C4	A	A	149	105.130	32.873	-2.485	1.00 87.63	A16S
ATOM	2988	N3	A	A	149	106.204	33.662	-2.342	1.00 87.63	A16S
ATOM	2989	C2	A	A	149	106.070	34.441	-1.273	1.00 87.63	A16S
ATOM	2990	N1	A	A	149	105.060	34.521	-0.401	1.00 87.63	A16S
ATOM	2991	C6	A	A	149	103.994	33.717	-0.575	1.00 87.63	A16S
ATOM	2992	N6	A	A	149	102.981	33.812	0.287	1.00 87.63	A16S
ATOM	2993	C5	A	A	149	104.015	32.831	-1.666	1.00 87.63	A16S
ATOM	2994	N7	A	A	149	103.106	31.888	-2.119	1.00 87.63	A16S
ATOM	2995	C8	A	A	149	103.678	31.393	-3.190	1.00 87.63	A16S
ATOM	2996	C2*	A	A	149	107.069	30.922	-4.315	1.00 93.29	A16S



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ATOM	2997	O2*	A	A 149	108.136	31.467	-5.068	1.00	93.29	A16S
ATOM	2998	C3*	A	A 149	106.702	29.504	-4.743	1.00	93.29	A16S
ATOM	2999	O3*	A	A 149	107.821	28.744	-5.181	1.00	93.29	A16S
ATOM	3000	P	C	A 150	108.773	28.028	-4.103	1.00	92.47	A16S
ATOM	3001	O1P	C	A 150	109.740	27.152	-4.837	1.00	78.62	A16S
ATOM	3002	O2P	C	A 150	107.928	27.445	-3.025	1.00	78.62	A16S
ATOM	3003	O5*	C	A 150	109.568	29.247	-3.467	1.00	92.47	A16S
ATOM	3004	C5*	C	A 150	110.393	30.105	-4.269	1.00	92.47	A16S
ATOM	3005	C4*	C	A 150	110.967	31.182	-3.398	1.00	92.47	A16S
ATOM	3006	O4*	C	A 150	109.888	32.031	-2.939	1.00	92.47	A16S
ATOM	3007	C1*	C	A 150	110.100	32.381	-1.584	1.00	92.47	A16S
ATOM	3008	N1	C	A 150	108.886	32.044	-0.811	1.00	78.62	A16S
ATOM	3009	C6	C	A 150	108.030	31.064	-1.230	1.00	78.62	A16S
ATOM	3010	C2	C	A 150	108.606	32.769	0.352	1.00	78.62	A16S
ATOM	3011	O2	C	A 150	109.420	33.626	0.736	1.00	78.62	A16S
ATOM	3012	N3	C	A 150	107.458	32.518	1.029	1.00	78.62	A16S
ATOM	3013	C4	C	A 150	106.614	31.586	0.587	1.00	78.62	A16S
ATOM	3014	N4	C	A 150	105.476	31.399	1.263	1.00	78.62	A16S
ATOM	3015	C5	C	A 150	106.892	30.809	-0.571	1.00	78.62	A16S
ATOM	3016	C2*	C	A 150	111.406	31.739	-1.111	1.00	92.47	A16S
ATOM	3017	O2*	C	A 150	112.448	32.689	-1.132	1.00	92.47	A16S
ATOM	3018	C3*	C	A 150	111.597	30.626	-2.134	1.00	92.47	A16S
ATOM	3019	O3*	C	A 150	112.959	30.300	-2.373	1.00	92.47	A16S
ATOM	3020	P	A	A 151	113.812	29.556	-1.233	1.00	65.85	A16S
ATOM	3021	O1P	A	A 151	115.215	29.449	-1.732	1.00	81.82	A16S
ATOM	3022	O2P	A	A 151	113.083	28.326	-0.784	1.00	81.82	A16S
ATOM	3023	O5*	A	A 151	113.811	30.612	-0.045	1.00	65.85	A16S
ATOM	3024	C5*	A	A 151	114.382	30.307	1.219	1.00	65.85	A16S
ATOM	3025	C4*	A	A 151	114.432	31.557	2.046	1.00	65.85	A16S
ATOM	3026	O4*	A	A 151	113.153	32.235	1.979	1.00	65.85	A16S
ATOM	3027	C1*	A	A 151	112.900	32.869	3.212	1.00	65.85	A16S
ATOM	3028	N9	A	A 151	111.561	32.513	3.674	1.00	81.82	A16S
ATOM	3029	C4	A	A 151	110.955	33.005	4.804	1.00	81.82	A16S
ATOM	3030	N3	A	A 151	111.487	33.838	5.713	1.00	81.82	A16S
ATOM	3031	C2	A	A 151	110.594	34.144	6.646	1.00	81.82	A16S
ATOM	3032	N1	A	A 151	109.324	33.744	6.767	1.00	81.82	A16S
ATOM	3033	C6	A	A 151	108.823	32.902	5.843	1.00	81.82	A16S
ATOM	3034	N6	A	A 151	107.557	32.511	5.967	1.00	81.82	A16S
ATOM	3035	C5	A	A 151	109.671	32.495	4.800	1.00	81.82	A16S
ATOM	3036	N7	A	A 151	109.482	31.653	3.713	1.00	81.82	A16S
ATOM	3037	C8	A	A 151	110.633	31.689	3.083	1.00	81.82	A16S
ATOM	3038	C2*	A	A 151	114.052	32.556	4.168	1.00	65.85	A16S
ATOM	3039	O2*	A	A 151	114.915	33.665	4.151	1.00	65.85	A16S
ATOM	3040	C3*	A	A 151	114.691	31.334	3.519	1.00	65.85	A16S
ATOM	3041	O3*	A	A 151	116.092	31.258	3.751	1.00	65.85	A16S
ATOM	3042	P	A	A 152	116.665	30.155	4.767	1.00	78.61	A16S
ATOM	3043	O1P	A	A 152	118.105	30.430	5.042	1.00	85.12	A16S
ATOM	3044	O2P	A	A 152	116.262	28.823	4.245	1.00	85.12	A16S
ATOM	3045	O5*	A	A 152	115.836	30.443	6.093	1.00	78.61	A16S
ATOM	3046	C5*	A	A 152	115.931	31.718	6.727	1.00	78.61	A16S
ATOM	3047	C4*	A	A 152	114.840	31.890	7.744	1.00	78.61	A16S
ATOM	3048	O4*	A	A 152	113.549	32.007	7.099	1.00	78.61	A16S
ATOM	3049	C1*	A	A 152	112.548	31.632	8.023	1.00	78.61	A16S
ATOM	3050	N9	A	A 152	111.650	30.673	7.393	1.00	85.12	A16S
ATOM	3051	C4	A	A 152	110.366	30.435	7.811	1.00	85.12	A16S
ATOM	3052	N3	A	A 152	109.716	31.043	8.819	1.00	85.12	A16S
ATOM	3053	C2	A	A 152	108.485	30.557	8.947	1.00	85.12	A16S
ATOM	3054	N1	A	A 152	107.879	29.597	8.243	1.00	85.12	A16S
ATOM	3055	C6	A	A 152	108.569	28.995	7.244	1.00	85.12	A16S
ATOM	3056	N6	A	A 152	107.974	28.012	6.558	1.00	85.12	A16S
ATOM	3057	C5	A	A 152	109.881	29.435	6.994	1.00	85.12	A16S
ATOM	3058	N7	A	A 152	110.836	29.059	6.057	1.00	85.12	A16S
ATOM	3059	C8	A	A 152	111.865	29.826	6.334	1.00	85.12	A16S
ATOM	3060	C2*	A	A 152	113.235	31.026	9.253	1.00	78.61	A16S
ATOM	3061	O2*	A	A 152	113.243	31.920	10.351	1.00	78.61	A16S
ATOM	3062	C3*	A	A 152	114.636	30.754	8.727	1.00	78.61	A16S
ATOM	3063	O3*	A	A 152	115.592	30.736	9.776	1.00	78.61	A16S
ATOM	3064	P	C	A 153	116.411	29.381	10.061	1.00	85.62	A16S
ATOM	3065	O1P	C	A 153	117.124	29.550	11.360	1.00	78.45	A16S
ATOM	3066	O2P	C	A 153	117.183	29.046	8.829	1.00	78.45	A16S
ATOM	3067	O5*	C	A 153	115.270	28.281	10.251	1.00	85.62	A16S
ATOM	3068	C5*	C	A 153	114.426	28.281	11.429	1.00	85.62	A16S
ATOM	3069	C4*	C	A 153	113.414	27.159	11.360	1.00	85.62	A16S
ATOM	3070	O4*	C	A 153	112.447	27.437	10.319	1.00	85.62	A16S
ATOM	3071	C1*	C	A 153	112.127	26.241	9.630	1.00	85.62	A16S
ATOM	3072	N1	C	A 153	112.618	26.371	8.249	1.00	78.45	A16S
ATOM	3073	C6	C	A 153	113.778	27.048	7.979	1.00	78.45	A16S



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ATOM	3074	C2	C	A	153	111.867	25.808	7.208	1.00	78.45	A16S
ATOM	3075	O2	C	A	153	110.840	25.157	7.485	1.00	78.45	A16S
ATOM	3076	N3	C	A	153	112.283	25.982	5.932	1.00	78.45	A16S
ATOM	3077	C4	C	A	153	113.402	26.670	5.682	1.00	78.45	A16S
ATOM	3078	N4	C	A	153	113.762	26.838	4.410	1.00	78.45	A16S
ATOM	3079	C5	C	A	153	114.200	27.220	6.728	1.00	78.45	A16S
ATOM	3080	C2*	C	A	153	112.808	25.091	10.360	1.00	85.62	A16S
ATOM	3081	O2*	C	A	153	111.914	24.544	11.305	1.00	85.62	A16S
ATOM	3082	C3*	C	A	153	113.989	25.802	10.999	1.00	85.62	A16S
ATOM	3083	O3*	C	A	153	114.481	25.104	12.120	1.00	85.62	A16S
ATOM	3084	P	C	A	154	115.555	23.941	11.896	1.00	101.46	A16S
ATOM	3085	O1P	C	A	154	115.810	23.318	13.219	1.00	96.72	A16S
ATOM	3086	O2P	C	A	154	116.692	24.515	11.115	1.00	96.72	A16S
ATOM	3087	O5*	C	A	154	114.789	22.881	10.982	1.00	101.46	A16S
ATOM	3088	C5*	C	A	154	113.747	22.034	11.519	1.00	101.46	A16S
ATOM	3089	C4*	C	A	154	113.345	20.987	10.501	1.00	101.46	A16S
ATOM	3090	O4*	C	A	154	112.685	21.624	9.377	1.00	101.46	A16S
ATOM	3091	C1*	C	A	154	113.067	20.987	8.165	1.00	101.46	A16S
ATOM	3092	N1	C	A	154	113.776	21.969	7.314	1.00	96.72	A16S
ATOM	3093	C6	C	A	154	114.376	23.068	7.865	1.00	96.72	A16S
ATOM	3094	C2	C	A	154	113.831	21.757	5.925	1.00	96.72	A16S
ATOM	3095	O2	C	A	154	113.291	20.750	5.443	1.00	96.72	A16S
ATOM	3096	N3	C	A	154	114.480	22.654	5.147	1.00	96.72	A16S
ATOM	3097	C4	C	A	154	115.064	23.719	5.702	1.00	96.72	A16S
ATOM	3098	N4	C	A	154	115.700	24.577	4.900	1.00	96.72	A16S
ATOM	3099	C5	C	A	154	115.024	23.956	7.105	1.00	96.72	A16S
ATOM	3100	C2*	C	A	154	113.952	19.796	8.529	1.00	101.46	A16S
ATOM	3101	O2*	C	A	154	113.179	18.615	8.615	1.00	101.46	A16S
ATOM	3102	C3*	C	A	154	114.503	20.227	9.878	1.00	101.46	A16S
ATOM	3103	O3*	C	A	154	114.908	19.117	10.655	1.00	101.46	A16S
ATOM	3104	P	C	A	155	116.412	18.578	10.524	1.00	103.95	A16S
ATOM	3105	O1P	C	A	155	116.571	17.519	11.557	1.00	120.32	A16S
ATOM	3106	O2P	C	A	155	117.336	19.748	10.519	1.00	120.32	A16S
ATOM	3107	O5*	C	A	155	116.457	17.914	9.075	1.00	103.95	A16S
ATOM	3108	C5*	C	A	155	115.814	16.655	8.821	1.00	103.95	A16S
ATOM	3109	C4*	C	A	155	116.127	16.181	7.423	1.00	103.95	A16S
ATOM	3110	O4*	C	A	155	115.487	17.057	6.458	1.00	103.95	A16S
ATOM	3111	C1*	C	A	155	116.307	17.172	5.303	1.00	103.95	A16S
ATOM	3112	N1	C	A	155	116.709	18.584	5.140	1.00	120.32	A16S
ATOM	3113	C6	C	A	155	116.546	19.482	6.158	1.00	120.32	A16S
ATOM	3114	C2	C	A	155	117.284	18.992	3.925	1.00	120.32	A16S
ATOM	3115	O2	C	A	155	117.405	18.169	3.005	1.00	120.32	A16S
ATOM	3116	N3	C	A	155	117.692	20.270	3.787	1.00	120.32	A16S
ATOM	3117	C4	C	A	155	117.545	21.130	4.796	1.00	120.32	A16S
ATOM	3118	N4	C	A	155	117.984	22.377	4.625	1.00	120.32	A16S
ATOM	3119	C5	C	A	155	116.947	20.750	6.031	1.00	120.32	A16S
ATOM	3120	C2*	C	A	155	117.523	16.267	5.505	1.00	103.95	A16S
ATOM	3121	O2*	C	A	155	117.287	15.007	4.909	1.00	103.95	A16S
ATOM	3122	C3*	C	A	155	117.596	16.182	7.022	1.00	103.95	A16S
ATOM	3123	O3*	C	A	155	118.284	15.012	7.433	1.00	103.95	A16S
ATOM	3124	P	G	A	156	119.886	15.036	7.550	1.00	116.17	A16S
ATOM	3125	O1P	G	A	156	120.286	13.712	8.086	1.00	111.66	A16S
ATOM	3126	O2P	G	A	156	120.278	16.270	8.271	1.00	111.66	A16S
ATOM	3127	O5*	G	A	156	120.401	15.134	6.046	1.00	116.17	A16S
ATOM	3128	C5*	G	A	156	120.214	14.030	5.152	1.00	116.17	A16S
ATOM	3129	C4*	G	A	156	120.763	14.340	3.777	1.00	116.17	A16S
ATOM	3130	O4*	G	A	156	120.000	15.401	3.146	1.00	116.17	A16S
ATOM	3131	C1*	G	A	156	120.841	16.131	2.266	1.00	116.17	A16S
ATOM	3132	N9	G	A	156	120.927	17.512	2.727	1.00	111.66	A16S
ATOM	3133	C4	G	A	156	121.373	18.576	1.986	1.00	111.66	A16S
ATOM	3134	N3	G	A	156	121.755	18.533	0.692	1.00	111.66	A16S
ATOM	3135	C2	G	A	156	122.165	19.708	0.258	1.00	111.66	A16S
ATOM	3136	N2	G	A	156	122.575	19.836	-1.007	1.00	111.66	A16S
ATOM	3137	N1	G	A	156	122.204	20.842	1.036	1.00	111.66	A16S
ATOM	3138	C6	G	A	156	121.825	20.909	2.376	1.00	111.66	A16S
ATOM	3139	O6	G	A	156	121.921	21.979	2.995	1.00	111.66	A16S
ATOM	3140	C5	G	A	156	121.369	19.651	2.849	1.00	111.66	A16S
ATOM	3141	N7	G	A	156	120.897	19.276	4.099	1.00	111.66	A16S
ATOM	3142	C8	G	A	156	120.639	18.003	3.978	1.00	111.66	A16S
ATOM	3143	C2*	G	A	156	122.229	15.492	2.319	1.00	116.17	A16S
ATOM	3144	O2*	G	A	156	122.386	14.591	1.238	1.00	116.17	A16S
ATOM	3145	C3*	G	A	156	122.203	14.809	3.681	1.00	116.17	A16S
ATOM	3146	O3*	G	A	156	123.126	13.738	3.738	1.00	116.17	A16S
ATOM	3147	P	G	A	157	124.652	14.033	4.144	1.00	109.08	A16S
ATOM	3148	O1P	G	A	157	125.313	12.703	4.100	1.00	120.37	A16S
ATOM	3149	O2P	G	A	157	124.678	14.833	5.400	1.00	120.37	A16S
ATOM	3150	O5*	G	A	157	125.222	14.904	2.931	1.00	109.08	A16S



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ATOM	3151	C5*	G	A	157	125.334	14.297	1.638	1.00109.08	A16S
ATOM	3152	C4*	G	A	157	125.813	15.274	0.589	1.00109.08	A16S
ATOM	3153	O4*	G	A	157	124.818	16.291	0.306	1.00109.08	A16S
ATOM	3154	C1*	G	A	157	125.461	17.412	-0.280	1.00109.08	A16S
ATOM	3155	N9	G	A	157	125.247	18.593	0.553	1.00120.37	A16S
ATOM	3156	C4	G	A	157	125.594	19.886	0.210	1.00120.37	A16S
ATOM	3157	N3	G	A	157	126.142	20.276	-0.968	1.00120.37	A16S
ATOM	3158	C2	G	A	157	126.403	21.571	-0.992	1.00120.37	A16S
ATOM	3159	N2	G	A	157	126.954	22.112	-2.089	1.00120.37	A16S
ATOM	3160	N1	G	A	157	126.144	22.426	0.061	1.00120.37	A16S
ATOM	3161	C6	G	A	157	125.579	22.052	1.284	1.00120.37	A16S
ATOM	3162	O6	G	A	157	125.392	22.907	2.172	1.00120.37	A16S
ATOM	3163	C5	G	A	157	125.294	20.652	1.320	1.00120.37	A16S
ATOM	3164	N7	G	A	157	124.745	19.864	2.328	1.00120.37	A16S
ATOM	3165	C8	G	A	157	124.728	18.656	1.826	1.00120.37	A16S
ATOM	3166	C2*	G	A	157	126.959	17.106	-0.316	1.00109.08	A16S
ATOM	3167	O2*	G	A	157	127.299	16.585	-1.585	1.00109.08	A16S
ATOM	3168	C3*	G	A	157	127.092	16.066	0.788	1.00109.08	A16S
ATOM	3169	O3*	G	A	157	128.277	15.307	0.598	1.00109.08	A16S
ATOM	3170	P	G	A	158	129.635	15.764	1.331	1.00136.20	A16S
ATOM	3171	O1P	G	A	158	130.663	14.734	1.055	1.00111.88	A16S
ATOM	3172	O2P	G	A	158	129.318	16.128	2.738	1.00111.88	A16S
ATOM	3173	O5*	G	A	158	130.068	17.077	0.542	1.00136.20	A16S
ATOM	3174	C5*	G	A	158	130.426	17.012	-0.855	1.00136.20	A16S
ATOM	3175	C4*	G	A	158	130.958	18.347	-1.335	1.00136.20	A16S
ATOM	3176	O4*	G	A	158	129.883	19.324	-1.405	1.00136.20	A16S
ATOM	3177	C1*	G	A	158	130.380	20.611	-1.061	1.00136.20	A16S
ATOM	3178	N9	G	A	158	129.651	21.104	0.112	1.00111.88	A16S
ATOM	3179	C4	G	A	158	129.638	22.399	0.591	1.00111.88	A16S
ATOM	3180	N3	G	A	158	130.292	23.453	0.056	1.00111.88	A16S
ATOM	3181	C2	G	A	158	130.106	24.559	0.759	1.00111.88	A16S
ATOM	3182	N2	G	A	158	130.698	25.699	0.377	1.00111.88	A16S
ATOM	3183	N1	G	A	158	129.330	24.629	1.890	1.00111.88	A16S
ATOM	3184	C6	G	A	158	128.643	23.559	2.454	1.00111.88	A16S
ATOM	3185	O6	G	A	158	127.966	23.731	3.473	1.00111.88	A16S
ATOM	3186	C5	G	A	158	128.843	22.364	1.719	1.00111.88	A16S
ATOM	3187	N7	G	A	158	128.360	21.084	1.944	1.00111.88	A16S
ATOM	3188	C8	G	A	158	128.858	20.374	0.968	1.00111.88	A16S
ATOM	3189	C2*	G	A	158	131.887	20.471	-0.819	1.00136.20	A16S
ATOM	3190	O2*	G	A	158	132.600	20.784	-2.001	1.00136.20	A16S
ATOM	3191	C3*	G	A	158	132.012	18.997	-0.453	1.00136.20	A16S
ATOM	3192	O3*	G	A	158	133.319	18.494	-0.695	1.00136.20	A16S
ATOM	3193	P	G	A	159	134.395	18.498	0.496	1.00133.01	A16S
ATOM	3194	O1P	G	A	159	135.645	17.880	-0.013	1.00117.99	A16S
ATOM	3195	O2P	G	A	159	133.743	17.958	1.717	1.00117.99	A16S
ATOM	3196	O5*	G	A	159	134.682	20.041	0.744	1.00133.01	A16S
ATOM	3197	C5*	G	A	159	135.333	20.837	-0.263	1.00133.01	A16S
ATOM	3198	C4*	G	A	159	135.582	22.234	0.253	1.00133.01	A16S
ATOM	3199	O4*	G	A	159	134.349	22.994	0.287	1.00133.01	A16S
ATOM	3200	C1*	G	A	159	134.380	23.887	1.384	1.00133.01	A16S
ATOM	3201	N9	G	A	159	133.251	23.598	2.260	1.00117.99	A16S
ATOM	3202	C4	G	A	159	132.804	24.385	3.293	1.00117.99	A16S
ATOM	3203	N3	G	A	159	133.338	25.563	3.679	1.00117.99	A16S
ATOM	3204	C2	G	A	159	132.681	26.096	4.698	1.00117.99	A16S
ATOM	3205	N2	G	A	159	133.073	27.285	5.199	1.00117.99	A16S
ATOM	3206	N1	G	A	159	131.590	25.508	5.298	1.00117.99	A16S
ATOM	3207	C6	G	A	159	131.026	24.293	4.918	1.00117.99	A16S
ATOM	3208	O6	G	A	159	130.038	23.854	5.523	1.00117.99	A16S
ATOM	3209	C5	G	A	159	131.721	23.717	3.821	1.00117.99	A16S
ATOM	3210	N7	G	A	159	131.498	22.530	3.141	1.00117.99	A16S
ATOM	3211	C8	G	A	159	132.429	22.501	2.227	1.00117.99	A16S
ATOM	3212	C2*	G	A	159	135.720	23.718	2.100	1.00133.01	A16S
ATOM	3213	O2*	G	A	159	136.608	24.706	1.628	1.00133.01	A16S
ATOM	3214	C3*	G	A	159	136.137	22.319	1.666	1.00133.01	A16S
ATOM	3215	O3*	G	A	159	137.555	22.167	1.678	1.00133.01	A16S
ATOM	3216	P	A	A	160	138.268	21.424	2.912	1.00111.59	A16S
ATOM	3217	O1P	A	A	160	139.744	21.622	2.775	1.00139.82	A16S
ATOM	3218	O2P	A	A	160	137.712	20.049	2.976	1.00139.82	A16S
ATOM	3219	O5*	A	A	160	137.764	22.229	4.189	1.00111.59	A16S
ATOM	3220	C5*	A	A	160	138.216	21.871	5.496	1.00111.59	A16S
ATOM	3221	C4*	A	A	160	138.813	23.071	6.188	1.00111.59	A16S
ATOM	3222	O4*	A	A	160	139.993	23.522	5.472	1.00111.59	A16S
ATOM	3223	C1*	A	A	160	140.132	24.928	5.621	1.00111.59	A16S
ATOM	3224	N9	A	A	160	140.259	25.543	4.294	1.00139.82	A16S
ATOM	3225	C4	A	A	160	140.559	26.865	4.037	1.00139.82	A16S
ATOM	3226	N3	A	A	160	140.798	27.840	4.933	1.00139.82	A16S
ATOM	3227	C2	A	A	160	141.055	28.993	4.316	1.00139.82	A16S



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ATOM	3228	N1	A	A 160	141.092	29.263	3.005	1.00139.82	A16S
ATOM	3229	C6	A	A 160	140.842	28.264	2.131	1.00139.82	A16S
ATOM	3230	N6	A	A 160	140.867	28.535	0.825	1.00139.82	A16S
ATOM	3231	C5	A	A 160	140.564	26.989	2.657	1.00139.82	A16S
ATOM	3232	N7	A	A 160	140.284	25.772	2.051	1.00139.82	A16S
ATOM	3233	C8	A	A 160	140.111	24.949	3.060	1.00139.82	A16S
ATOM	3234	C2*	A	A 160	138.946	25.433	6.450	1.00111.59	A16S
ATOM	3235	O2*	A	A 160	139.341	25.605	7.801	1.00111.59	A16S
ATOM	3236	C3*	A	A 160	137.933	24.306	6.269	1.00111.59	A16S
ATOM	3237	O3*	A	A 160	137.010	24.221	7.347	1.00111.59	A16S
ATOM	3238	P	A	A 161	135.467	24.602	7.100	1.00130.95	A16S
ATOM	3239	O1P	A	A 161	134.712	24.139	8.297	1.00 97.72	A16S
ATOM	3240	O2P	A	A 161	135.069	24.119	5.742	1.00 97.72	A16S
ATOM	3241	O5*	A	A 161	135.465	26.199	7.076	1.00130.95	A16S
ATOM	3242	C5*	A	A 161	135.947	26.970	8.203	1.00130.95	A16S
ATOM	3243	C4*	A	A 161	136.441	28.327	7.739	1.00130.95	A16S
ATOM	3244	O4*	A	A 161	137.480	28.122	6.750	1.00130.95	A16S
ATOM	3245	C1*	A	A 161	137.373	29.096	5.728	1.00130.95	A16S
ATOM	3246	N9	A	A 161	137.094	28.396	4.474	1.00 97.72	A16S
ATOM	3247	C4	A	A 161	137.215	28.894	3.199	1.00 97.72	A16S
ATOM	3248	N3	A	A 161	137.588	30.130	2.837	1.00 97.72	A16S
ATOM	3249	C2	A	A 161	137.609	30.243	1.511	1.00 97.72	A16S
ATOM	3250	N1	A	A 161	137.322	29.330	0.577	1.00 97.72	A16S
ATOM	3251	C6	A	A 161	136.947	28.100	0.974	1.00 97.72	A16S
ATOM	3252	N6	A	A 161	136.662	27.192	0.042	1.00 97.72	A16S
ATOM	3253	C5	A	A 161	136.881	27.852	2.356	1.00 97.72	A16S
ATOM	3254	N7	A	A 161	136.533	26.725	3.086	1.00 97.72	A16S
ATOM	3255	C8	A	A 161	136.672	27.099	4.330	1.00 97.72	A16S
ATOM	3256	C2*	A	A 161	136.279	30.081	6.136	1.00130.95	A16S
ATOM	3257	O2*	A	A 161	136.885	31.157	6.824	1.00130.95	A16S
ATOM	3258	C3*	A	A 161	135.418	29.223	7.052	1.00130.95	A16S
ATOM	3259	O3*	A	A 161	134.728	30.027	8.001	1.00130.95	A16S
ATOM	3260	P	A	A 162	133.309	30.678	7.617	1.00131.96	A16S
ATOM	3261	O1P	A	A 162	132.818	31.409	8.822	1.00112.83	A16S
ATOM	3262	O2P	A	A 162	132.467	29.624	6.995	1.00112.83	A16S
ATOM	3263	O5*	A	A 162	133.649	31.731	6.473	1.00131.96	A16S
ATOM	3264	C5*	A	A 162	133.931	33.115	6.769	1.00131.96	A16S
ATOM	3265	C4*	A	A 162	133.903	33.919	5.492	1.00131.96	A16S
ATOM	3266	O4*	A	A 162	134.852	33.320	4.566	1.00131.96	A16S
ATOM	3267	C1*	A	A 162	134.280	33.226	3.274	1.00131.96	A16S
ATOM	3268	N9	A	A 162	134.072	31.801	2.974	1.00112.83	A16S
ATOM	3269	C4	A	A 162	134.212	31.188	1.751	1.00112.83	A16S
ATOM	3270	N3	A	A 162	134.588	31.756	0.592	1.00112.83	A16S
ATOM	3271	C2	A	A 162	134.588	30.856	-0.392	1.00112.83	A16S
ATOM	3272	N1	A	A 162	134.278	29.554	-0.350	1.00112.83	A16S
ATOM	3273	C6	A	A 162	133.905	29.015	0.830	1.00112.83	A16S
ATOM	3274	N6	A	A 162	133.595	27.721	0.869	1.00112.83	A16S
ATOM	3275	C5	A	A 162	133.865	29.861	1.952	1.00112.83	A16S
ATOM	3276	N7	A	A 162	133.529	29.633	3.278	1.00112.83	A16S
ATOM	3277	C8	A	A 162	133.672	30.805	3.843	1.00112.83	A16S
ATOM	3278	C2*	A	A 162	132.965	34.010	3.308	1.00131.96	A16S
ATOM	3279	O2*	A	A 162	133.183	35.353	2.928	1.00131.96	A16S
ATOM	3280	C3*	A	A 162	132.566	33.862	4.770	1.00131.96	A16S
ATOM	3281	O3*	A	A 162	131.665	34.867	5.226	1.00131.96	A16S
ATOM	3282	P	C	A 163	130.241	34.437	5.845	1.00112.63	A16S
ATOM	3283	O1P	C	A 163	129.471	35.682	6.113	1.00131.13	A16S
ATOM	3284	O2P	C	A 163	130.495	33.483	6.956	1.00131.13	A16S
ATOM	3285	O5*	C	A 163	129.521	33.645	4.661	1.00112.63	A16S
ATOM	3286	C5*	C	A 163	129.347	34.259	3.374	1.00112.63	A16S
ATOM	3287	C4*	C	A 163	129.718	33.299	2.268	1.00112.63	A16S
ATOM	3288	O4*	C	A 163	130.660	32.311	2.773	1.00112.63	A16S
ATOM	3289	C1*	C	A 163	130.506	31.091	2.059	1.00112.63	A16S
ATOM	3290	N1	C	A 163	130.139	30.004	2.992	1.00131.13	A16S
ATOM	3291	C6	C	A 163	129.673	30.272	4.249	1.00131.13	A16S
ATOM	3292	C2	C	A 163	130.245	28.672	2.547	1.00131.13	A16S
ATOM	3293	O2	C	A 163	130.711	28.446	1.417	1.00131.13	A16S
ATOM	3294	N3	C	A 163	129.838	27.671	3.357	1.00131.13	A16S
ATOM	3295	C4	C	A 163	129.359	27.948	4.570	1.00131.13	A16S
ATOM	3296	N4	C	A 163	128.949	26.927	5.327	1.00131.13	A16S
ATOM	3297	C5	C	A 163	129.274	29.285	5.062	1.00131.13	A16S
ATOM	3298	C2*	C	A 163	129.389	31.303	1.040	1.00112.63	A16S
ATOM	3299	O2*	C	A 163	129.967	31.644	-0.205	1.00112.63	A16S
ATOM	3300	C3*	C	A 163	128.608	32.449	1.673	1.00112.63	A16S
ATOM	3301	O3*	C	A 163	127.834	33.137	0.703	1.00112.63	A16S
ATOM	3302	P	U	A 164	126.378	32.574	0.313	1.00111.77	A16S
ATOM	3303	O1P	U	A 164	125.796	33.481	-0.709	1.00115.26	A16S
ATOM	3304	O2P	U	A 164	125.632	32.288	1.565	1.00115.26	A16S



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ATOM	3305	O5*	U	A	164	126.674	31.193	-0.411	1.00111.77	A16S
ATOM	3306	C5*	U	A	164	127.377	31.173	-1.656	1.00111.77	A16S
ATOM	3307	C4*	U	A	164	127.436	29.771	-2.190	1.00111.77	A16S
ATOM	3308	O4*	U	A	164	128.127	28.928	-1.236	1.00111.77	A16S
ATOM	3309	C1*	U	A	164	127.539	27.643	-1.224	1.00111.77	A16S
ATOM	3310	N1	U	A	164	127.064	27.356	0.139	1.00115.26	A16S
ATOM	3311	C6	U	A	164	127.078	28.315	1.125	1.00115.26	A16S
ATOM	3312	C2	U	A	164	126.604	26.074	0.404	1.00115.26	A16S
ATOM	3313	O2	U	A	164	126.582	25.190	-0.436	1.00115.26	A16S
ATOM	3314	N3	U	A	164	126.178	25.861	1.689	1.00115.26	A16S
ATOM	3315	C4	U	A	164	126.175	26.772	2.722	1.00115.26	A16S
ATOM	3316	O4	U	A	164	125.794	26.415	3.840	1.00115.26	A16S
ATOM	3317	C5	U	A	164	126.665	28.074	2.372	1.00115.26	A16S
ATOM	3318	C2*	U	A	164	126.434	27.625	-2.281	1.00111.77	A16S
ATOM	3319	O2*	U	A	164	126.968	27.094	-3.477	1.00111.77	A16S
ATOM	3320	C3*	U	A	164	126.089	29.104	-2.391	1.00111.77	A16S
ATOM	3321	O3*	U	A	164	125.528	29.466	-3.650	1.00111.77	A16S
ATOM	3322	P	C	A	165	123.951	29.274	-3.909	1.00115.20	A16S
ATOM	3323	O1P	C	A	165	123.602	30.062	-5.125	1.00115.74	A16S
ATOM	3324	O2P	C	A	165	123.202	29.512	-2.640	1.00115.74	A16S
ATOM	3325	O5*	C	A	165	123.844	27.730	-4.284	1.00115.20	A16S
ATOM	3326	C5*	C	A	165	124.632	27.192	-5.364	1.00115.20	A16S
ATOM	3327	C4*	C	A	165	124.471	25.696	-5.444	1.00115.20	A16S
ATOM	3328	O4*	C	A	165	125.163	25.046	-4.349	1.00115.20	A16S
ATOM	3329	C1*	C	A	165	124.435	23.901	-3.945	1.00115.20	A16S
ATOM	3330	N1	C	A	165	124.011	24.071	-2.550	1.00115.74	A16S
ATOM	3331	C6	C	A	165	124.084	25.285	-1.923	1.00115.74	A16S
ATOM	3332	C2	C	A	165	123.521	22.958	-1.872	1.00115.74	A16S
ATOM	3333	O2	C	A	165	123.440	21.875	-2.482	1.00115.74	A16S
ATOM	3334	N3	C	A	165	123.139	23.087	-0.577	1.00115.74	A16S
ATOM	3335	C4	C	A	165	123.227	24.274	0.029	1.00115.74	A16S
ATOM	3336	N4	C	A	165	122.858	24.353	1.308	1.00115.74	A16S
ATOM	3337	C5	C	A	165	123.703	25.430	-0.648	1.00115.74	A16S
ATOM	3338	C2*	C	A	165	123.219	23.771	-4.856	1.00115.20	A16S
ATOM	3339	O2*	C	A	165	123.517	22.862	-5.891	1.00115.20	A16S
ATOM	3340	C3*	C	A	165	123.044	25.204	-5.333	1.00115.20	A16S
ATOM	3341	O3*	C	A	165	122.365	25.291	-6.562	1.00115.20	A16S
ATOM	3342	P	G	A	166	120.765	25.331	-6.563	1.00101.09	A16S
ATOM	3343	O1P	G	A	166	120.340	25.369	-7.990	1.00106.29	A16S
ATOM	3344	O2P	G	A	166	120.301	26.386	-5.622	1.00106.29	A16S
ATOM	3345	O5*	G	A	166	120.353	23.917	-5.956	1.00101.09	A16S
ATOM	3346	C5*	G	A	166	120.571	22.719	-6.716	1.00101.09	A16S
ATOM	3347	C4*	G	A	166	120.007	21.520	-6.002	1.00101.09	A16S
ATOM	3348	O4*	G	A	166	120.764	21.254	-4.796	1.00101.09	A16S
ATOM	3349	C1*	G	A	166	119.928	20.603	-3.859	1.00101.09	A16S
ATOM	3350	N9	G	A	166	119.942	21.345	-2.603	1.00106.29	A16S
ATOM	3351	C4	G	A	166	119.475	20.880	-1.399	1.00106.29	A16S
ATOM	3352	N3	G	A	166	118.965	19.652	-1.171	1.00106.29	A16S
ATOM	3353	C2	G	A	166	118.578	19.499	0.081	1.00106.29	A16S
ATOM	3354	N2	G	A	166	118.063	18.325	0.484	1.00106.29	A16S
ATOM	3355	N1	G	A	166	118.671	20.481	1.030	1.00106.29	A16S
ATOM	3356	C6	G	A	166	119.191	21.753	0.817	1.00106.29	A16S
ATOM	3357	O6	G	A	166	119.226	22.563	1.747	1.00106.29	A16S
ATOM	3358	C5	G	A	166	119.624	21.924	-0.521	1.00106.29	A16S
ATOM	3359	N7	G	A	166	120.202	23.018	-1.150	1.00106.29	A16S
ATOM	3360	C8	G	A	166	120.378	22.626	-2.382	1.00106.29	A16S
ATOM	3361	C2*	G	A	166	118.521	20.519	-4.457	1.00101.09	A16S
ATOM	3362	O2*	G	A	166	118.306	19.221	-4.980	1.00101.09	A16S
ATOM	3363	C3*	G	A	166	118.569	21.603	-5.527	1.00101.09	A16S
ATOM	3364	O3*	G	A	166	117.638	21.371	-6.576	1.00101.09	A16S
ATOM	3365	P	G	A	167	116.114	21.870	-6.410	1.00 83.63	A16S
ATOM	3366	O1P	G	A	167	115.409	21.585	-7.697	1.00106.99	A16S
ATOM	3367	O2P	G	A	167	116.122	23.258	-5.869	1.00106.99	A16S
ATOM	3368	O5*	G	A	167	115.531	20.919	-5.263	1.00 83.63	A16S
ATOM	3369	C5*	G	A	167	115.387	19.502	-5.487	1.00 83.63	A16S
ATOM	3370	C4*	G	A	167	114.797	18.827	-4.277	1.00 83.63	A16S
ATOM	3371	O4*	G	A	167	115.758	18.832	-3.197	1.00 83.63	A16S
ATOM	3372	C1*	G	A	167	115.072	18.879	-1.956	1.00 83.63	A16S
ATOM	3373	N9	G	A	167	115.478	20.071	-1.219	1.00106.99	A16S
ATOM	3374	C4	G	A	167	115.169	20.340	0.089	1.00106.99	A16S
ATOM	3375	N3	G	A	167	114.475	19.534	0.917	1.00106.99	A16S
ATOM	3376	C2	G	A	167	114.316	20.072	2.110	1.00106.99	A16S
ATOM	3377	N2	G	A	167	113.657	19.398	3.063	1.00106.99	A16S
ATOM	3378	N1	G	A	167	114.793	21.308	2.458	1.00106.99	A16S
ATOM	3379	C6	G	A	167	115.504	22.157	1.617	1.00106.99	A16S
ATOM	3380	O6	G	A	167	115.873	23.260	2.026	1.00106.99	A16S
ATOM	3381	C5	G	A	167	115.692	21.586	0.339	1.00106.99	A16S



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ATOM	3382	N7	G	A	167	116.343	22.082	-0.781	1.00106.99	A16S
ATOM	3383	C8	G	A	167	116.195	21.149	-1.679	1.00106.99	A16S
ATOM	3384	C2*	G	A	167	113.574	18.934	-2.248	1.00 83.63	A16S
ATOM	3385	O2*	G	A	167	113.026	17.644	-2.111	1.00 83.63	A16S
ATOM	3386	C3*	G	A	167	113.556	19.460	-3.675	1.00 83.63	A16S
ATOM	3387	O3*	G	A	167	112.367	19.097	-4.349	1.00 83.63	A16S
ATOM	3388	P	G	A	168	111.055	20.011	-4.181	1.00 79.98	A16S
ATOM	3389	O1P	G	A	168	109.956	19.373	-4.958	1.00 99.97	A16S
ATOM	3390	O2P	G	A	168	111.424	21.431	-4.466	1.00 99.97	A16S
ATOM	3391	O5*	G	A	168	110.718	19.895	-2.625	1.00 79.98	A16S
ATOM	3392	C5*	G	A	168	110.107	18.711	-2.085	1.00 79.98	A16S
ATOM	3393	C4*	G	A	168	109.640	18.947	-0.664	1.00 79.98	A16S
ATOM	3394	O4*	G	A	168	110.778	19.220	0.195	1.00 79.98	A16S
ATOM	3395	C1*	G	A	168	110.378	20.059	1.271	1.00 79.98	A16S
ATOM	3396	N9	G	A	168	111.231	21.249	1.292	1.00 99.97	A16S
ATOM	3397	C4	G	A	168	111.427	22.114	2.357	1.00 99.97	A16S
ATOM	3398	N3	G	A	168	110.899	21.995	3.596	1.00 99.97	A16S
ATOM	3399	C2	G	A	168	111.262	22.995	4.387	1.00 99.97	A16S
ATOM	3400	N2	G	A	168	110.843	23.035	5.654	1.00 99.97	A16S
ATOM	3401	N1	G	A	168	112.064	24.027	3.996	1.00 99.97	A16S
ATOM	3402	C6	G	A	168	112.616	24.173	2.733	1.00 99.97	A16S
ATOM	3403	O6	G	A	168	113.325	25.148	2.484	1.00 99.97	A16S
ATOM	3404	C5	G	A	168	112.250	23.107	1.873	1.00 99.97	A16S
ATOM	3405	N7	G	A	168	112.593	22.863	0.548	1.00 99.97	A16S
ATOM	3406	C8	G	A	168	111.975	21.752	0.249	1.00 99.97	A16S
ATOM	3407	C2*	G	A	168	108.897	20.390	1.065	1.00 79.98	A16S
ATOM	3408	O2*	G	A	168	108.093	19.534	1.849	1.00 79.98	A16S
ATOM	3409	C3*	G	A	168	108.714	20.122	-0.422	1.00 79.98	A16S
ATOM	3410	O3*	G	A	168	107.363	19.823	-0.721	1.00 79.98	A16S
ATOM	3411	P	C	A	169	106.347	21.029	-1.054	1.00 85.50	A16S
ATOM	3412	O1P	C	A	169	105.066	20.438	-1.536	1.00 94.51	A16S
ATOM	3413	O2P	C	A	169	107.072	22.013	-1.906	1.00 94.51	A16S
ATOM	3414	O5*	C	A	169	106.058	21.698	0.362	1.00 85.50	A16S
ATOM	3415	C5*	C	A	169	105.400	20.946	1.377	1.00 85.50	A16S
ATOM	3416	C4*	C	A	169	105.283	21.741	2.649	1.00 85.50	A16S
ATOM	3417	O4*	C	A	169	106.583	21.965	3.254	1.00 85.50	A16S
ATOM	3418	C1*	C	A	169	106.488	23.066	4.139	1.00 85.50	A16S
ATOM	3419	N1	C	A	169	107.598	24.012	3.910	1.00 94.51	A16S
ATOM	3420	C6	C	A	169	108.210	24.129	2.691	1.00 94.51	A16S
ATOM	3421	C2	C	A	169	108.009	24.815	4.983	1.00 94.51	A16S
ATOM	3422	O2	C	A	169	107.445	24.682	6.087	1.00 94.51	A16S
ATOM	3423	N3	C	A	169	109.006	25.714	4.797	1.00 94.51	A16S
ATOM	3424	C4	C	A	169	109.589	25.828	3.605	1.00 94.51	A16S
ATOM	3425	N4	C	A	169	110.562	26.735	3.477	1.00 94.51	A16S
ATOM	3426	C5	C	A	169	109.201	25.017	2.495	1.00 94.51	A16S
ATOM	3427	C2*	C	A	169	105.119	23.712	3.929	1.00 85.50	A16S
ATOM	3428	O2*	C	A	169	104.265	23.289	4.974	1.00 85.50	A16S
ATOM	3429	C3*	C	A	169	104.698	23.137	2.580	1.00 85.50	A16S
ATOM	3430	O3*	C	A	169	103.286	23.144	2.450	1.00 85.50	A16S
ATOM	3431	P	U	A	170	102.572	24.397	1.733	1.00 76.13	A16S
ATOM	3432	O1P	U	A	170	101.093	24.227	1.753	1.00 85.66	A16S
ATOM	3433	O2P	U	A	170	103.268	24.584	0.429	1.00 85.66	A16S
ATOM	3434	O5*	U	A	170	102.907	25.628	2.694	1.00 76.13	A16S
ATOM	3435	C5*	U	A	170	102.448	25.635	4.070	1.00 76.13	A16S
ATOM	3436	C4*	U	A	170	102.794	26.946	4.758	1.00 76.13	A16S
ATOM	3437	O4*	U	A	170	104.213	27.026	5.048	1.00 76.13	A16S
ATOM	3438	C1*	U	A	170	104.651	28.358	4.889	1.00 76.13	A16S
ATOM	3439	N1	U	A	170	105.669	28.369	3.824	1.00 85.66	A16S
ATOM	3440	C6	U	A	170	105.513	27.638	2.667	1.00 85.66	A16S
ATOM	3441	C2	U	A	170	106.808	29.120	4.030	1.00 85.66	A16S
ATOM	3442	O2	U	A	170	106.955	29.830	5.001	1.00 85.66	A16S
ATOM	3443	N3	U	A	170	107.762	29.024	3.046	1.00 85.66	A16S
ATOM	3444	C4	U	A	170	107.682	28.293	1.885	1.00 85.66	A16S
ATOM	3445	O4	U	A	170	108.638	28.281	1.111	1.00 85.66	A16S
ATOM	3446	C5	U	A	170	106.454	27.579	1.715	1.00 85.66	A16S
ATOM	3447	C2*	U	A	170	103.419	29.225	4.608	1.00 76.13	A16S
ATOM	3448	O2*	U	A	170	102.922	29.721	5.834	1.00 76.13	A16S
ATOM	3449	C3*	U	A	170	102.460	28.216	3.994	1.00 76.13	A16S
ATOM	3450	O3*	U	A	170	101.090	28.557	4.195	1.00 76.13	A16S
ATOM	3451	P	A	A	171	100.403	29.706	3.298	1.00 79.99	A16S
ATOM	3452	O1P	A	A	171	98.927	29.514	3.325	1.00 84.43	A16S
ATOM	3453	O2P	A	A	171	101.103	29.794	1.984	1.00 84.43	A16S
ATOM	3454	O5*	A	A	171	100.724	31.020	4.136	1.00 79.99	A16S
ATOM	3455	C5*	A	A	171	100.342	31.104	5.520	1.00 79.99	A16S
ATOM	3456	C4*	A	A	171	100.666	32.467	6.078	1.00 79.99	A16S
ATOM	3457	O4*	A	A	171	102.061	32.556	6.465	1.00 79.99	A16S
ATOM	3458	C1*	A	A	171	102.509	33.887	6.287	1.00 79.99	A16S



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ATOM	3459	N9	A	A	171	103.638	33.867	5.350	1.00	84.43	A16S
ATOM	3460	C4	A	A	171	104.750	34.678	5.375	1.00	84.43	A16S
ATOM	3461	N3	A	A	171	105.016	35.680	6.229	1.00	84.43	A16S
ATOM	3462	C2	A	A	171	106.198	36.214	5.964	1.00	84.43	A16S
ATOM	3463	N1	A	A	171	107.082	35.882	5.023	1.00	84.43	A16S
ATOM	3464	C6	A	A	171	106.785	34.870	4.190	1.00	84.43	A16S
ATOM	3465	N6	A	A	171	107.676	34.516	3.271	1.00	84.43	A16S
ATOM	3466	C5	A	A	171	105.560	34.235	4.348	1.00	84.43	A16S
ATOM	3467	N7	A	A	171	104.962	33.195	3.659	1.00	84.43	A16S
ATOM	3468	C8	A	A	171	103.824	33.018	4.286	1.00	84.43	A16S
ATOM	3469	C2*	A	A	171	101.308	34.716	5.818	1.00	79.99	A16S
ATOM	3470	O2*	A	A	171	100.639	35.235	6.955	1.00	79.99	A16S
ATOM	3471	C3*	A	A	171	100.442	33.657	5.163	1.00	79.99	A16S
ATOM	3472	O3*	A	A	171	99.082	34.045	5.115	1.00	79.99	A16S
ATOM	3473	P	A	A	172	98.536	34.842	3.828	1.00	86.00	A16S
ATOM	3474	O1P	A	A	172	97.043	34.918	3.906	1.00	63.49	A16S
ATOM	3475	O2P	A	A	172	99.182	34.290	2.593	1.00	63.49	A16S
ATOM	3476	O5*	A	A	172	99.109	36.306	4.066	1.00	86.00	A16S
ATOM	3477	C5*	A	A	172	98.725	37.052	5.233	1.00	86.00	A16S
ATOM	3478	C4*	A	A	172	99.465	38.364	5.284	1.00	86.00	A16S
ATOM	3479	O4*	A	A	172	100.861	38.132	5.600	1.00	86.00	A16S
ATOM	3480	C1*	A	A	172	101.668	39.035	4.874	1.00	86.00	A16S
ATOM	3481	N9	A	A	172	102.472	38.246	3.939	1.00	63.49	A16S
ATOM	3482	C4	A	A	172	103.825	38.343	3.706	1.00	63.49	A16S
ATOM	3483	N3	A	A	172	104.704	39.161	4.306	1.00	63.49	A16S
ATOM	3484	C2	A	A	172	105.921	38.966	3.826	1.00	63.49	A16S
ATOM	3485	N1	A	A	172	106.326	38.125	2.879	1.00	63.49	A16S
ATOM	3486	C6	A	A	172	105.415	37.333	2.284	1.00	63.49	A16S
ATOM	3487	N6	A	A	172	105.810	36.517	1.312	1.00	63.49	A16S
ATOM	3488	C5	A	A	172	104.101	37.423	2.715	1.00	63.49	A16S
ATOM	3489	N7	A	A	172	102.955	36.741	2.340	1.00	63.49	A16S
ATOM	3490	C8	A	A	172	102.019	37.262	3.095	1.00	63.49	A16S
ATOM	3491	C2*	A	A	172	100.727	39.997	4.143	1.00	86.00	A16S
ATOM	3492	O2*	A	A	172	100.457	41.135	4.939	1.00	86.00	A16S
ATOM	3493	C3*	A	A	172	99.488	39.137	3.983	1.00	86.00	A16S
ATOM	3494	O3*	A	A	172	98.319	39.904	3.799	1.00	86.00	A16S
ATOM	3495	P	U	A	173	98.092	40.657	2.405	1.00	75.28	A16S
ATOM	3496	O1P	U	A	173	98.865	39.916	1.367	1.00	82.02	A16S
ATOM	3497	O2P	U	A	173	96.636	40.884	2.200	1.00	82.02	A16S
ATOM	3498	O5*	U	A	173	98.801	42.069	2.663	1.00	75.28	A16S
ATOM	3499	C5*	U	A	173	98.634	43.155	1.719	1.00	75.28	A16S
ATOM	3500	C4*	U	A	173	99.752	44.184	1.827	1.00	75.28	A16S
ATOM	3501	O4*	U	A	173	99.474	45.228	2.801	1.00	75.28	A16S
ATOM	3502	C1*	U	A	173	100.675	45.528	3.473	1.00	75.28	A16S
ATOM	3503	N1	U	A	173	100.390	46.162	4.765	1.00	82.02	A16S
ATOM	3504	C6	U	A	173	99.244	45.893	5.474	1.00	82.02	A16S
ATOM	3505	C2	U	A	173	101.325	47.066	5.240	1.00	82.02	A16S
ATOM	3506	O2	U	A	173	102.372	47.301	4.669	1.00	82.02	A16S
ATOM	3507	N3	U	A	173	100.994	47.680	6.417	1.00	82.02	A16S
ATOM	3508	C4	U	A	173	99.858	47.478	7.166	1.00	82.02	A16S
ATOM	3509	O4	U	A	173	99.686	48.144	8.189	1.00	82.02	A16S
ATOM	3510	C5	U	A	173	98.953	46.502	6.630	1.00	82.02	A16S
ATOM	3511	C2*	U	A	173	101.454	44.215	3.499	1.00	75.28	A16S
ATOM	3512	O2*	U	A	173	102.819	44.448	3.812	1.00	75.28	A16S
ATOM	3513	C3*	U	A	173	101.180	43.703	2.081	1.00	75.28	A16S
ATOM	3514	O3*	U	A	173	102.027	44.398	1.176	1.00	75.28	A16S
ATOM	3515	P	C	A	174	102.200	43.866	-0.324	1.00	73.74	A16S
ATOM	3516	O1P	C	A	174	102.747	45.001	-1.123	1.00	76.80	A16S
ATOM	3517	O2P	C	A	174	100.933	43.217	-0.752	1.00	76.80	A16S
ATOM	3518	O5*	C	A	174	103.334	42.758	-0.173	1.00	73.74	A16S
ATOM	3519	C5*	C	A	174	104.727	43.124	0.019	1.00	73.74	A16S
ATOM	3520	C4*	C	A	174	105.618	42.119	-0.671	1.00	73.74	A16S
ATOM	3521	O4*	C	A	174	105.568	40.868	0.058	1.00	73.74	A16S
ATOM	3522	C1*	C	A	174	105.440	39.779	-0.847	1.00	73.74	A16S
ATOM	3523	N1	C	A	174	104.135	39.125	-0.599	1.00	76.80	A16S
ATOM	3524	C6	C	A	174	103.234	39.683	0.262	1.00	76.80	A16S
ATOM	3525	C2	C	A	174	103.820	37.936	-1.270	1.00	76.80	A16S
ATOM	3526	O2	C	A	174	104.652	37.438	-2.041	1.00	76.80	A16S
ATOM	3527	N3	C	A	174	102.613	37.366	-1.066	1.00	76.80	A16S
ATOM	3528	C4	C	A	174	101.735	37.938	-0.241	1.00	76.80	A16S
ATOM	3529	N4	C	A	174	100.548	37.362	-0.089	1.00	76.80	A16S
ATOM	3530	C5	C	A	174	102.033	39.132	0.463	1.00	76.80	A16S
ATOM	3531	C2*	C	A	174	105.573	40.337	-2.270	1.00	73.74	A16S
ATOM	3532	O2*	C	A	174	106.900	40.182	-2.745	1.00	73.74	A16S
ATOM	3533	C3*	C	A	174	105.132	41.782	-2.072	1.00	73.74	A16S
ATOM	3534	O3*	C	A	174	105.642	42.694	-3.035	1.00	73.74	A16S
ATOM	3535	P	C	A	175	104.642	43.356	-4.102	1.00	81.44	A16S



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ATOM	3536	O1P	C	A	175	105.329	44.536	-4.673	1.00	86.79	A16S
ATOM	3537	O2P	C	A	175	103.299	43.529	-3.484	1.00	86.79	A16S
ATOM	3538	O5*	C	A	175	104.528	42.230	-5.218	1.00	81.44	A16S
ATOM	3539	C5*	C	A	175	105.705	41.699	-5.842	1.00	81.44	A16S
ATOM	3540	C4*	C	A	175	105.350	40.493	-6.665	1.00	81.44	A16S
ATOM	3541	O4*	C	A	175	105.076	39.372	-5.786	1.00	81.44	A16S
ATOM	3542	C1*	C	A	175	104.009	38.600	-6.318	1.00	81.44	A16S
ATOM	3543	N1	C	A	175	102.884	38.609	-5.360	1.00	86.79	A16S
ATOM	3544	C6	C	A	175	102.818	39.543	-4.366	1.00	86.79	A16S
ATOM	3545	C2	C	A	175	101.866	37.643	-5.492	1.00	86.79	A16S
ATOM	3546	O2	C	A	175	101.941	36.797	-6.401	1.00	86.79	A16S
ATOM	3547	N3	C	A	175	100.826	37.662	-4.631	1.00	86.79	A16S
ATOM	3548	C4	C	A	175	100.770	38.588	-3.675	1.00	86.79	A16S
ATOM	3549	N4	C	A	175	99.717	38.584	-2.862	1.00	86.79	A16S
ATOM	3550	C5	C	A	175	101.791	39.568	-3.512	1.00	86.79	A16S
ATOM	3551	C2*	C	A	175	103.609	39.219	-7.659	1.00	81.44	A16S
ATOM	3552	O2*	C	A	175	104.261	38.558	-8.725	1.00	81.44	A16S
ATOM	3553	C3*	C	A	175	104.085	40.652	-7.493	1.00	81.44	A16S
ATOM	3554	O3*	C	A	175	104.293	41.290	-8.744	1.00	81.44	A16S
ATOM	3555	P	C	A	176	103.037	41.951	-9.504	1.00	81.89	A16S
ATOM	3556	O1P	C	A	176	103.556	42.634	-10.712	1.00	89.97	A16S
ATOM	3557	O2P	C	A	176	102.239	42.725	-8.507	1.00	89.97	A16S
ATOM	3558	O5*	C	A	176	102.172	40.701	-9.999	1.00	81.89	A16S
ATOM	3559	C5*	C	A	176	102.698	39.783	-10.988	1.00	81.89	A16S
ATOM	3560	C4*	C	A	176	101.717	38.663	-11.264	1.00	81.89	A16S
ATOM	3561	O4*	C	A	176	101.472	37.916	-10.049	1.00	81.89	A16S
ATOM	3562	C1*	C	A	176	100.124	37.485	-10.012	1.00	81.89	A16S
ATOM	3563	N1	C	A	176	99.480	38.071	-8.819	1.00	89.97	A16S
ATOM	3564	C6	C	A	176	100.170	38.915	-7.995	1.00	89.97	A16S
ATOM	3565	C2	C	A	176	98.142	37.751	-8.536	1.00	89.97	A16S
ATOM	3566	O2	C	A	176	97.531	36.983	-9.297	1.00	89.97	A16S
ATOM	3567	N3	C	A	176	97.550	38.289	-7.445	1.00	89.97	A16S
ATOM	3568	C4	C	A	176	98.236	39.114	-6.654	1.00	89.97	A16S
ATOM	3569	N4	C	A	176	97.613	39.630	-5.598	1.00	89.97	A16S
ATOM	3570	C5	C	A	176	99.594	39.451	-6.914	1.00	89.97	A16S
ATOM	3571	C2*	C	A	176	99.471	37.905	-11.329	1.00	81.89	A16S
ATOM	3572	O2*	C	A	176	99.572	36.828	-12.233	1.00	81.89	A16S
ATOM	3573	C3*	C	A	176	100.341	39.080	-11.745	1.00	81.89	A16S
ATOM	3574	O3*	C	A	176	100.349	39.235	-13.146	1.00	81.89	A16S
ATOM	3575	P	C	A	177	99.235	40.150	-13.848	1.00	84.28	A16S
ATOM	3576	O1P	C	A	177	99.606	40.186	-15.285	1.00	89.49	A16S
ATOM	3577	O2P	C	A	177	99.069	41.416	-13.090	1.00	89.49	A16S
ATOM	3578	O5*	C	A	177	97.892	39.307	-13.725	1.00	84.28	A16S
ATOM	3579	C5*	C	A	177	97.703	38.153	-14.556	1.00	84.28	A16S
ATOM	3580	C4*	C	A	177	96.332	37.554	-14.354	1.00	84.28	A16S
ATOM	3581	O4*	C	A	177	96.197	37.062	-12.999	1.00	84.28	A16S
ATOM	3582	C1*	C	A	177	94.852	37.190	-12.586	1.00	84.28	A16S
ATOM	3583	N1	C	A	177	94.812	38.064	-11.406	1.00	89.49	A16S
ATOM	3584	C6	C	A	177	95.869	38.875	-11.099	1.00	89.49	A16S
ATOM	3585	C2	C	A	177	93.670	38.051	-10.592	1.00	89.49	A16S
ATOM	3586	O2	C	A	177	92.715	37.316	-10.898	1.00	89.49	A16S
ATOM	3587	N3	C	A	177	93.634	38.839	-9.496	1.00	89.49	A16S
ATOM	3588	C4	C	A	177	94.678	39.618	-9.200	1.00	89.49	A16S
ATOM	3589	N4	C	A	177	94.605	40.369	-8.098	1.00	89.49	A16S
ATOM	3590	C5	C	A	177	95.845	39.658	-10.016	1.00	89.49	A16S
ATOM	3591	C2*	C	A	177	94.052	37.749	-13.761	1.00	84.28	A16S
ATOM	3592	O2*	C	A	177	93.498	36.663	-14.478	1.00	84.28	A16S
ATOM	3593	C3*	C	A	177	95.135	38.465	-14.557	1.00	84.28	A16S
ATOM	3594	O3*	C	A	177	94.792	38.568	-15.932	1.00	84.28	A16S
ATOM	3595	P	C	A	178	93.843	39.768	-16.424	1.00	95.11	A16S
ATOM	3596	O1P	C	A	178	93.622	39.556	-17.885	1.00	96.79	A16S
ATOM	3597	O2P	C	A	178	94.409	41.058	-15.941	1.00	96.79	A16S
ATOM	3598	O5*	C	A	178	92.464	39.522	-15.651	1.00	95.11	A16S
ATOM	3599	C5*	C	A	178	91.569	38.449	-16.037	1.00	95.11	A16S
ATOM	3600	C4*	C	A	178	90.303	38.475	-15.204	1.00	95.11	A16S
ATOM	3601	O4*	C	A	178	90.611	38.212	-13.814	1.00	95.11	A16S
ATOM	3602	C1*	C	A	178	89.657	38.860	-12.991	1.00	95.11	A16S
ATOM	3603	N1	C	A	178	90.340	39.677	-11.977	1.00	96.79	A16S
ATOM	3604	C6	C	A	178	91.613	40.139	-12.171	1.00	96.79	A16S
ATOM	3605	C2	C	A	178	89.642	39.997	-10.799	1.00	96.79	A16S
ATOM	3606	O2	C	A	178	88.495	39.545	-10.634	1.00	96.79	A16S
ATOM	3607	N3	C	A	178	90.234	40.790	-9.875	1.00	96.79	A16S
ATOM	3608	C4	C	A	178	91.466	41.260	-10.088	1.00	96.79	A16S
ATOM	3609	N4	C	A	178	91.997	42.070	-9.164	1.00	96.79	A16S
ATOM	3610	C5	C	A	178	92.207	40.928	-11.264	1.00	96.79	A16S
ATOM	3611	C2*	C	A	178	88.742	39.700	-13.879	1.00	95.11	A16S
ATOM	3612	O2*	C	A	178	87.500	39.048	-14.017	1.00	95.11	A16S



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ATOM	3613	C3*	C	A	178	89.542	39.788	-15.173	1.00	95.11	A16S
ATOM	3614	O3*	C	A	178	88.682	39.913	-16.291	1.00	95.11	A16S
ATOM	3615	P	A	A	179	88.147	41.367	-16.717	1.00	85.44	A16S
ATOM	3616	O1P	A	A	179	87.181	41.166	-17.835	1.00	102.48	A16S
ATOM	3617	O2P	A	A	179	89.317	42.267	-16.906	1.00	102.48	A16S
ATOM	3618	O5*	A	A	179	87.357	41.881	-15.435	1.00	85.44	A16S
ATOM	3619	C5*	A	A	179	86.102	41.310	-15.078	1.00	85.44	A16S
ATOM	3620	C4*	A	A	179	85.532	42.027	-13.891	1.00	85.44	A16S
ATOM	3621	O4*	A	A	179	86.385	41.831	-12.735	1.00	85.44	A16S
ATOM	3622	C1*	A	A	179	86.240	42.937	-11.864	1.00	85.44	A16S
ATOM	3623	N9	A	A	179	87.558	43.447	-11.475	1.00	102.48	A16S
ATOM	3624	C4	A	A	179	87.770	44.382	-10.486	1.00	102.48	A16S
ATOM	3625	N3	A	A	179	86.844	44.968	-9.707	1.00	102.48	A16S
ATOM	3626	C2	A	A	179	87.409	45.833	-8.878	1.00	102.48	A16S
ATOM	3627	N1	A	A	179	88.695	46.158	-8.746	1.00	102.48	A16S
ATOM	3628	C6	A	A	179	89.602	45.549	-9.541	1.00	102.48	A16S
ATOM	3629	N6	A	A	179	90.890	45.876	-9.409	1.00	102.48	A16S
ATOM	3630	C5	A	A	179	89.132	44.607	-10.465	1.00	102.48	A16S
ATOM	3631	N7	A	A	179	89.778	43.820	-11.410	1.00	102.48	A16S
ATOM	3632	C8	A	A	179	88.802	43.149	-11.981	1.00	102.48	A16S
ATOM	3633	C2*	A	A	179	85.381	43.991	-12.567	1.00	85.44	A16S
ATOM	3634	O2*	A	A	179	84.084	43.966	-12.005	1.00	85.44	A16S
ATOM	3635	C3*	A	A	179	85.436	43.535	-14.023	1.00	85.44	A16S
ATOM	3636	O3*	A	A	179	84.280	43.920	-14.757	1.00	85.44	A16S
ATOM	3637	P	U	A	180	84.248	45.342	-15.507	1.00	92.12	A16S
ATOM	3638	O1P	U	A	180	82.977	45.413	-16.275	1.00	98.23	A16S
ATOM	3639	O2P	U	A	180	85.543	45.518	-16.211	1.00	98.23	A16S
ATOM	3640	O5*	U	A	180	84.152	46.408	-14.326	1.00	92.12	A16S
ATOM	3641	C5*	U	A	180	82.956	46.504	-13.546	1.00	92.12	A16S
ATOM	3642	C4*	U	A	180	83.121	47.506	-12.435	1.00	92.12	A16S
ATOM	3643	O4*	U	A	180	84.124	47.048	-11.499	1.00	92.12	A16S
ATOM	3644	C1*	U	A	180	84.806	48.166	-10.949	1.00	92.12	A16S
ATOM	3645	N1	U	A	180	86.233	48.049	-11.277	1.00	98.23	A16S
ATOM	3646	C6	U	A	180	86.663	47.224	-12.288	1.00	98.23	A16S
ATOM	3647	C2	U	A	180	87.130	48.808	-10.545	1.00	98.23	A16S
ATOM	3648	O2	U	A	180	86.790	49.544	-9.630	1.00	98.23	A16S
ATOM	3649	N3	U	A	180	88.440	48.673	-10.927	1.00	98.23	A16S
ATOM	3650	C4	U	A	180	88.934	47.874	-11.943	1.00	98.23	A16S
ATOM	3651	O4	U	A	180	90.143	47.895	-12.208	1.00	98.23	A16S
ATOM	3652	C5	U	A	180	87.943	47.115	-12.636	1.00	98.23	A16S
ATOM	3653	C2*	U	A	180	84.199	49.431	-11.554	1.00	92.12	A16S
ATOM	3654	O2*	U	A	180	83.257	49.989	-10.659	1.00	92.12	A16S
ATOM	3655	C3*	U	A	180	83.581	48.893	-12.840	1.00	92.12	A16S
ATOM	3656	O3*	U	A	180	82.502	49.702	-13.280	1.00	92.12	A16S
ATOM	3657	P	G	A	181	82.745	50.759	-14.461	1.00	110.98	A16S
ATOM	3658	O1P	G	A	181	81.678	51.783	-14.360	1.00	92.52	A16S
ATOM	3659	O2P	G	A	181	82.924	50.000	-15.734	1.00	92.52	A16S
ATOM	3660	O5*	G	A	181	84.116	51.469	-14.062	1.00	110.98	A16S
ATOM	3661	C5*	G	A	181	84.148	52.490	-13.039	1.00	110.98	A16S
ATOM	3662	C4*	G	A	181	85.130	53.576	-13.411	1.00	110.98	A16S
ATOM	3663	O4*	G	A	181	86.493	53.116	-13.189	1.00	110.98	A16S
ATOM	3664	C1*	G	A	181	87.283	53.327	-14.351	1.00	110.98	A16S
ATOM	3665	N9	G	A	181	88.229	52.211	-14.449	1.00	92.52	A16S
ATOM	3666	C4	G	A	181	89.489	52.129	-13.870	1.00	92.52	A16S
ATOM	3667	N3	G	A	181	90.076	53.063	-13.088	1.00	92.52	A16S
ATOM	3668	C2	G	A	181	91.301	52.706	-12.719	1.00	92.52	A16S
ATOM	3669	N2	G	A	181	92.032	53.531	-11.961	1.00	92.52	A16S
ATOM	3670	N1	G	A	181	91.901	51.520	-13.070	1.00	92.52	A16S
ATOM	3671	C6	G	A	181	91.318	50.537	-13.862	1.00	92.52	A16S
ATOM	3672	O6	G	A	181	91.944	49.494	-14.116	1.00	92.52	A16S
ATOM	3673	C5	G	A	181	90.001	50.913	-14.280	1.00	92.52	A16S
ATOM	3674	N7	G	A	181	89.084	50.236	-15.072	1.00	92.52	A16S
ATOM	3675	C8	G	A	181	88.053	51.036	-15.141	1.00	92.52	A16S
ATOM	3676	C2*	G	A	181	86.327	53.488	-15.546	1.00	110.98	A16S
ATOM	3677	O2*	G	A	181	86.872	54.369	-16.510	1.00	110.98	A16S
ATOM	3678	C3*	G	A	181	85.074	54.031	-14.859	1.00	110.98	A16S
ATOM	3679	O3*	G	A	181	84.167	55.051	-15.308	1.00	110.98	A16S
ATOM	3680	P	U	A	182	84.598	56.605	-15.283	1.00	100.07	A16S
ATOM	3681	O1P	U	A	182	83.954	57.271	-16.447	1.00	121.04	A16S
ATOM	3682	O2P	U	A	182	86.062	56.680	-15.130	1.00	121.04	A16S
ATOM	3683	O5*	U	A	182	83.910	57.185	-13.960	1.00	100.07	A16S
ATOM	3684	C5*	U	A	182	84.441	56.895	-12.649	1.00	100.07	A16S
ATOM	3685	C4*	U	A	182	84.475	58.151	-11.791	1.00	100.07	A16S
ATOM	3686	O4*	U	A	182	85.135	57.812	-10.541	1.00	100.07	A16S
ATOM	3687	C1*	U	A	182	86.115	58.788	-10.225	1.00	100.07	A16S
ATOM	3688	N1	U	A	182	87.441	58.157	-10.386	1.00	121.04	A16S
ATOM	3689	C6	U	A	182	87.634	57.129	-11.290	1.00	121.04	A16S



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ATOM	3690	C2	U	A	182	88.493	58.610	-9.606	1.00121.04	A16S
ATOM	3691	O2	U	A	182	88.390	59.533	-8.822	1.00121.04	A16S
ATOM	3692	N3	U	A	182	89.681	57.945	-9.792	1.00121.04	A16S
ATOM	3693	C4	U	A	182	89.929	56.909	-10.669	1.00121.04	A16S
ATOM	3694	O4	U	A	182	91.053	56.412	-10.721	1.00121.04	A16S
ATOM	3695	C5	U	A	182	88.807	56.512	-11.452	1.00121.04	A16S
ATOM	3696	C2*	U	A	182	85.881	59.987	-11.149	1.00100.07	A16S
ATOM	3697	O2*	U	A	182	85.010	60.926	-10.549	1.00100.07	A16S
ATOM	3698	C3*	U	A	182	85.277	59.313	-12.375	1.00100.07	A16S
ATOM	3699	O3*	U	A	182	84.451	60.220	-13.106	1.00100.07	A16S
ATOM	3700	P	G	A	183	85.060	61.030	-14.358	1.00 93.89	A16S
ATOM	3701	O1P	G	A	183	84.221	62.243	-14.554	1.00 98.08	A16S
ATOM	3702	O2P	G	A	183	85.240	60.074	-15.488	1.00 98.08	A16S
ATOM	3703	O5*	G	A	183	86.493	61.504	-13.840	1.00 93.89	A16S
ATOM	3704	C5*	G	A	183	87.636	61.532	-14.722	1.00 93.89	A16S
ATOM	3705	C4*	G	A	183	88.891	61.146	-13.969	1.00 93.89	A16S
ATOM	3706	O4*	G	A	183	88.745	59.814	-13.401	1.00 93.89	A16S
ATOM	3707	C1*	G	A	183	89.970	59.104	-13.492	1.00 93.89	A16S
ATOM	3708	N9	G	A	183	89.747	57.940	-14.351	1.00 98.08	A16S
ATOM	3709	C4	G	A	183	90.618	56.900	-14.618	1.00 98.08	A16S
ATOM	3710	N3	G	A	183	91.865	56.750	-14.117	1.00 98.08	A16S
ATOM	3711	C2	G	A	183	92.461	55.656	-14.584	1.00 98.08	A16S
ATOM	3712	N2	G	A	183	93.714	55.350	-14.188	1.00 98.08	A16S
ATOM	3713	N1	G	A	183	91.873	54.783	-15.471	1.00 98.08	A16S
ATOM	3714	C6	G	A	183	90.587	54.918	-15.991	1.00 98.08	A16S
ATOM	3715	O6	G	A	183	90.145	54.073	-16.776	1.00 98.08	A16S
ATOM	3716	C5	G	A	183	89.946	56.081	-15.504	1.00 98.08	A16S
ATOM	3717	N7	G	A	183	88.685	56.581	-15.779	1.00 98.08	A16S
ATOM	3718	C8	G	A	183	88.610	57.677	-15.073	1.00 98.08	A16S
ATOM	3719	C2*	G	A	183	91.013	60.080	-14.045	1.00 93.89	A16S
ATOM	3720	O2*	G	A	183	91.697	60.695	-12.968	1.00 93.89	A16S
ATOM	3721	C3*	G	A	183	90.140	61.060	-14.827	1.00 93.89	A16S
ATOM	3722	O3*	G	A	183	90.735	62.345	-15.002	1.00 93.89	A16S
ATOM	3723	P	G	A	184	91.411	62.733	-16.416	1.00 82.53	A16S
ATOM	3724	O1P	G	A	184	91.848	64.148	-16.243	1.00 87.78	A16S
ATOM	3725	O2P	G	A	184	90.509	62.368	-17.555	1.00 87.78	A16S
ATOM	3726	O5*	G	A	184	92.703	61.792	-16.506	1.00 82.53	A16S
ATOM	3727	C5*	G	A	184	93.908	62.103	-15.767	1.00 82.53	A16S
ATOM	3728	C4*	G	A	184	94.907	60.970	-15.874	1.00 82.53	A16S
ATOM	3729	O4*	G	A	184	94.240	59.750	-15.457	1.00 82.53	A16S
ATOM	3730	C1*	G	A	184	94.716	58.652	-16.219	1.00 82.53	A16S
ATOM	3731	N9	G	A	184	93.615	58.149	-17.043	1.00 87.78	A16S
ATOM	3732	C4	G	A	184	93.545	56.912	-17.656	1.00 87.78	A16S
ATOM	3733	N3	G	A	184	94.469	55.931	-17.577	1.00 87.78	A16S
ATOM	3734	C2	G	A	184	94.128	54.869	-18.288	1.00 87.78	A16S
ATOM	3735	N2	G	A	184	94.934	53.800	-18.316	1.00 87.78	A16S
ATOM	3736	N1	G	A	184	92.974	54.776	-19.020	1.00 87.78	A16S
ATOM	3737	C6	G	A	184	92.009	55.768	-19.114	1.00 87.78	A16S
ATOM	3738	O6	G	A	184	91.002	55.575	-19.796	1.00 87.78	A16S
ATOM	3739	C5	G	A	184	92.361	56.918	-18.356	1.00 87.78	A16S
ATOM	3740	N7	G	A	184	91.690	58.122	-18.181	1.00 87.78	A16S
ATOM	3741	C8	G	A	184	92.465	58.817	-17.392	1.00 87.78	A16S
ATOM	3742	C2*	G	A	184	95.845	59.174	-17.105	1.00 82.53	A16S
ATOM	3743	O2*	G	A	184	97.098	59.000	-16.466	1.00 82.53	A16S
ATOM	3744	C3*	G	A	184	95.447	60.633	-17.257	1.00 82.53	A16S
ATOM	3745	O3*	G	A	184	96.539	61.426	-17.697	1.00 82.53	A16S
ATOM	3746	P	A	A	185	96.820	61.559	-19.285	1.00 84.47	A16S
ATOM	3747	O1P	A	A	185	97.844	62.613	-19.504	1.00 81.24	A16S
ATOM	3748	O2P	A	A	185	95.514	61.656	-19.988	1.00 81.24	A16S
ATOM	3749	O5*	A	A	185	97.445	60.153	-19.698	1.00 84.47	A16S
ATOM	3750	C5*	A	A	185	98.671	59.685	-19.115	1.00 84.47	A16S
ATOM	3751	C4*	A	A	185	99.045	58.355	-19.711	1.00 84.47	A16S
ATOM	3752	O4*	A	A	185	98.086	57.348	-19.303	1.00 84.47	A16S
ATOM	3753	C1*	A	A	185	97.836	56.456	-20.378	1.00 84.47	A16S
ATOM	3754	N9	A	A	185	96.415	56.528	-20.724	1.00 81.24	A16S
ATOM	3755	C4	A	A	185	95.759	55.688	-21.587	1.00 81.24	A16S
ATOM	3756	N3	A	A	185	96.279	54.655	-22.263	1.00 81.24	A16S
ATOM	3757	C2	A	A	185	95.353	54.072	-23.007	1.00 81.24	A16S
ATOM	3758	N1	A	A	185	94.064	54.382	-23.143	1.00 81.24	A16S
ATOM	3759	C6	A	A	185	93.576	55.430	-22.453	1.00 81.24	A16S
ATOM	3760	N6	A	A	185	92.291	55.747	-22.601	1.00 81.24	A16S
ATOM	3761	C5	A	A	185	94.455	56.129	-21.625	1.00 81.24	A16S
ATOM	3762	N7	A	A	185	94.282	57.224	-20.797	1.00 81.24	A16S
ATOM	3763	C8	A	A	185	95.471	57.421	-20.286	1.00 81.24	A16S
ATOM	3764	C2*	A	A	185	98.733	56.872	-21.543	1.00 84.47	A16S
ATOM	3765	O2*	A	A	185	99.907	56.095	-21.537	1.00 84.47	A16S
ATOM	3766	C3*	A	A	185	98.987	58.335	-21.222	1.00 84.47	A16S



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ATOM	3767	O3*	A	A 185	100.179	58.830	-21.782	1.00	84.47	A16S
ATOM	3768	P	C	A 186	100.105	59.746	-23.098	1.00	72.28	A16S
ATOM	3769	O1P	C	A 186	101.462	60.347	-23.225	1.00	71.51	A16S
ATOM	3770	O2P	C	A 186	98.904	60.631	-22.995	1.00	71.51	A16S
ATOM	3771	O5*	C	A 186	99.880	58.696	-24.275	1.00	72.28	A16S
ATOM	3772	C5*	C	A 186	100.827	57.643	-24.458	1.00	72.28	A16S
ATOM	3773	C4*	C	A 186	100.327	56.647	-25.456	1.00	72.28	A16S
ATOM	3774	O4*	C	A 186	99.257	55.852	-24.897	1.00	72.28	A16S
ATOM	3775	C1*	C	A 186	98.364	55.476	-25.931	1.00	72.28	A16S
ATOM	3776	N1	C	A 186	97.023	56.006	-25.623	1.00	71.51	A16S
ATOM	3777	C6	C	A 186	96.857	57.036	-24.744	1.00	71.51	A16S
ATOM	3778	C2	C	A 186	95.915	55.448	-26.268	1.00	71.51	A16S
ATOM	3779	O2	C	A 186	96.086	54.485	-27.026	1.00	71.51	A16S
ATOM	3780	N3	C	A 186	94.688	55.968	-26.045	1.00	71.51	A16S
ATOM	3781	C4	C	A 186	94.543	56.989	-25.204	1.00	71.51	A16S
ATOM	3782	N4	C	A 186	93.323	57.487	-25.028	1.00	71.51	A16S
ATOM	3783	C5	C	A 186	95.647	57.551	-24.506	1.00	71.51	A16S
ATOM	3784	C2*	C	A 186	98.906	56.056	-27.240	1.00	72.28	A16S
ATOM	3785	O2*	C	A 186	99.695	55.082	-27.898	1.00	72.28	A16S
ATOM	3786	C3*	C	A 186	99.744	57.220	-26.729	1.00	72.28	A16S
ATOM	3787	O3*	C	A 186	100.760	57.601	-27.635	1.00	72.28	A16S
ATOM	3788	P	C	A 187	100.452	58.716	-28.746	1.00	84.29	A16S
ATOM	3789	O1P	C	A 187	101.767	59.081	-29.329	1.00	79.77	A16S
ATOM	3790	O2P	C	A 187	99.597	59.776	-28.164	1.00	79.77	A16S
ATOM	3791	O5*	C	A 187	99.597	57.920	-29.824	1.00	84.29	A16S
ATOM	3792	C5*	C	A 187	100.176	56.813	-30.515	1.00	84.29	A16S
ATOM	3793	C4*	C	A 187	99.173	56.199	-31.448	1.00	84.29	A16S
ATOM	3794	O4*	C	A 187	98.160	55.503	-30.685	1.00	84.29	A16S
ATOM	3795	C1*	C	A 187	96.918	55.583	-31.364	1.00	84.29	A16S
ATOM	3796	N1	C	A 187	95.944	56.250	-30.488	1.00	79.77	A16S
ATOM	3797	C6	C	A 187	96.344	57.011	-29.424	1.00	79.77	A16S
ATOM	3798	C2	C	A 187	94.594	56.111	-30.781	1.00	79.77	A16S
ATOM	3799	O2	C	A 187	94.268	55.388	-31.732	1.00	79.77	A16S
ATOM	3800	N3	C	A 187	93.677	56.764	-30.024	1.00	79.77	A16S
ATOM	3801	C4	C	A 187	94.078	57.525	-29.004	1.00	79.77	A16S
ATOM	3802	N4	C	A 187	93.148	58.173	-28.301	1.00	79.77	A16S
ATOM	3803	C5	C	A 187	95.451	57.661	-28.664	1.00	79.77	A16S
ATOM	3804	C2*	C	A 187	97.142	56.369	-32.658	1.00	84.29	A16S
ATOM	3805	O2*	C	A 187	97.353	55.484	-33.742	1.00	84.29	A16S
ATOM	3806	C3*	C	A 187	98.387	57.170	-32.311	1.00	84.29	A16S
ATOM	3807	O3*	C	A 187	99.107	57.589	-33.460	1.00	84.29	A16S
ATOM	3808	P	C	A 188	98.951	59.104	-33.974	1.00	92.42	A16S
ATOM	3809	O1P	C	A 188	99.858	59.216	-35.147	1.00	80.78	A16S
ATOM	3810	O2P	C	A 188	99.125	60.035	-32.815	1.00	80.78	A16S
ATOM	3811	O5*	C	A 188	97.427	59.174	-34.459	1.00	92.42	A16S
ATOM	3812	C5*	C	A 188	96.963	58.338	-35.549	1.00	92.42	A16S
ATOM	3813	C4*	C	A 188	95.462	58.463	-35.748	1.00	92.42	A16S
ATOM	3814	O4*	C	A 188	94.750	57.871	-34.631	1.00	92.42	A16S
ATOM	3815	C1*	C	A 188	93.520	58.551	-34.437	1.00	92.42	A16S
ATOM	3816	N1	C	A 188	93.536	59.212	-33.120	1.00	80.78	A16S
ATOM	3817	C6	C	A 188	94.703	59.389	-32.426	1.00	80.78	A16S
ATOM	3818	C2	C	A 188	92.324	59.680	-32.589	1.00	80.78	A16S
ATOM	3819	O2	C	A 188	91.278	59.507	-33.241	1.00	80.78	A16S
ATOM	3820	N3	C	A 188	92.324	60.312	-31.389	1.00	80.78	A16S
ATOM	3821	C4	C	A 188	93.471	60.484	-30.727	1.00	80.78	A16S
ATOM	3822	N4	C	A 188	93.429	61.118	-29.556	1.00	80.78	A16S
ATOM	3823	C5	C	A 188	94.714	60.014	-31.239	1.00	80.78	A16S
ATOM	3824	C2*	C	A 188	93.399	59.599	-35.534	1.00	92.42	A16S
ATOM	3825	O2*	C	A 188	92.667	59.040	-36.603	1.00	92.42	A16S
ATOM	3826	C3*	C	A 188	94.862	59.854	-35.873	1.00	92.42	A16S
ATOM	3827	O3*	C	A 188	95.017	60.424	-37.166	1.00	92.42	A16S
ATOM	3828	P	G	A 189	94.992	62.029	-37.334	1.00	102.06	A16S
ATOM	3829	O1P	G	A 189	95.293	62.273	-38.764	1.00	81.87	A16S
ATOM	3830	O2P	G	A 189	95.821	62.685	-36.287	1.00	81.87	A16S
ATOM	3831	O5*	G	A 189	93.479	62.433	-37.037	1.00	102.06	A16S
ATOM	3832	C5*	G	A 189	92.436	62.092	-37.962	1.00	102.06	A16S
ATOM	3833	C4*	G	A 189	91.130	62.714	-37.539	1.00	102.06	A16S
ATOM	3834	O4*	G	A 189	90.640	62.059	-36.348	1.00	102.06	A16S
ATOM	3835	C1*	G	A 189	89.932	62.991	-35.558	1.00	102.06	A16S
ATOM	3836	N9	G	A 189	90.602	63.109	-34.275	1.00	81.87	A16S
ATOM	3837	C4	G	A 189	90.025	63.526	-33.109	1.00	81.87	A16S
ATOM	3838	N3	G	A 189	88.738	63.891	-32.955	1.00	81.87	A16S
ATOM	3839	C2	G	A 189	88.473	64.252	-31.709	1.00	81.87	A16S
ATOM	3840	N2	G	A 189	87.232	64.652	-31.373	1.00	81.87	A16S
ATOM	3841	N1	G	A 189	89.398	64.252	-30.695	1.00	81.87	A16S
ATOM	3842	C6	G	A 189	90.729	63.882	-30.827	1.00	81.87	A16S
ATOM	3843	O6	G	A 189	91.479	63.924	-29.839	1.00	81.87	A16S



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ATOM	3844	C5	G	A	189	91.030	63.490	-32.168	1.00	81.87	A16S
ATOM	3845	N7	G	A	189	92.221	63.058	-32.738	1.00	81.87	A16S
ATOM	3846	C8	G	A	189	91.917	62.843	-33.989	1.00	81.87	A16S
ATOM	3847	C2*	G	A	189	89.941	64.332	-36.285	1.00	102.06	A16S
ATOM	3848	O2*	G	A	189	88.748	64.451	-37.028	1.00	102.06	A16S
ATOM	3849	C3*	G	A	189	91.166	64.190	-37.175	1.00	102.06	A16S
ATOM	3850	O3*	G	A	189	91.079	65.033	-38.319	1.00	102.06	A16S
ATOM	3851	P	C	A	190	91.737	66.503	-38.278	1.00	86.48	A16S
ATOM	3852	O1P	C	A	190	91.659	67.010	-39.679	1.00	83.92	A16S
ATOM	3853	O2P	C	A	190	93.058	66.444	-37.582	1.00	83.92	A16S
ATOM	3854	O5*	C	A	190	90.748	67.344	-37.358	1.00	86.48	A16S
ATOM	3855	C5*	C	A	190	89.397	67.562	-37.764	1.00	86.48	A16S
ATOM	3856	C4*	C	A	190	88.601	68.120	-36.622	1.00	86.48	A16S
ATOM	3857	O4*	C	A	190	88.513	67.133	-35.560	1.00	86.48	A16S
ATOM	3858	C1*	C	A	190	88.472	67.788	-34.302	1.00	86.48	A16S
ATOM	3859	N1	C	A	190	89.619	67.336	-33.498	1.00	83.92	A16S
ATOM	3860	C6	C	A	190	90.710	66.766	-34.091	1.00	83.92	A16S
ATOM	3861	C2	C	A	190	89.594	67.536	-32.105	1.00	83.92	A16S
ATOM	3862	O2	C	A	190	88.571	68.007	-31.582	1.00	83.92	A16S
ATOM	3863	N3	C	A	190	90.683	67.207	-31.370	1.00	83.92	A16S
ATOM	3864	C4	C	A	190	91.756	66.683	-31.968	1.00	83.92	A16S
ATOM	3865	N4	C	A	190	92.818	66.394	-31.213	1.00	83.92	A16S
ATOM	3866	C5	C	A	190	91.791	66.432	-33.372	1.00	83.92	A16S
ATOM	3867	C2*	C	A	190	88.545	69.298	-34.563	1.00	86.48	A16S
ATOM	3868	O2*	C	A	190	87.253	69.874	-34.524	1.00	86.48	A16S
ATOM	3869	C3*	C	A	190	89.194	69.342	-35.944	1.00	86.48	A16S
ATOM	3870	O3*	C	A	190	88.927	70.545	-36.652	1.00	86.48	A16S
ATOM	3871	P	C	A	190A	90.009	71.741	-36.622	1.00	84.84	A16S
ATOM	3872	O1P	C	A	190A	89.725	72.637	-37.773	1.00	93.24	A16S
ATOM	3873	O2P	C	A	190A	91.374	71.154	-36.469	1.00	93.24	A16S
ATOM	3874	O5*	C	A	190A	89.632	72.548	-35.304	1.00	84.84	A16S
ATOM	3875	C5*	C	A	190A	88.331	73.122	-35.166	1.00	84.84	A16S
ATOM	3876	C4*	C	A	190A	88.074	73.487	-33.733	1.00	84.84	A16S
ATOM	3877	O4*	C	A	190A	88.146	72.295	-32.916	1.00	84.84	A16S
ATOM	3878	C1*	C	A	190A	88.700	72.615	-31.653	1.00	84.84	A16S
ATOM	3879	N1	C	A	190A	89.933	71.832	-31.479	1.00	93.24	A16S
ATOM	3880	C6	C	A	190A	90.540	71.229	-32.545	1.00	93.24	A16S
ATOM	3881	C2	C	A	190A	90.483	71.716	-30.197	1.00	93.24	A16S
ATOM	3882	O2	C	A	190A	89.906	72.266	-29.244	1.00	93.24	A16S
ATOM	3883	N3	C	A	190A	91.627	71.009	-30.030	1.00	93.24	A16S
ATOM	3884	C4	C	A	190A	92.214	70.431	-31.082	1.00	93.24	A16S
ATOM	3885	N4	C	A	190A	93.342	69.754	-30.879	1.00	93.24	A16S
ATOM	3886	C5	C	A	190A	91.669	70.527	-32.393	1.00	93.24	A16S
ATOM	3887	C2*	C	A	190A	88.963	74.119	-31.628	1.00	84.84	A16S
ATOM	3888	O2*	C	A	190A	87.870	74.769	-31.018	1.00	84.84	A16S
ATOM	3889	C3*	C	A	190A	89.086	74.428	-33.112	1.00	84.84	A16S
ATOM	3890	O3*	C	A	190A	88.798	75.776	-33.431	1.00	84.84	A16S
ATOM	3891	P	C	A	190B	90.006	76.789	-33.737	1.00	98.87	A16S
ATOM	3892	O1P	C	A	190B	89.414	77.976	-34.418	1.00	88.80	A16S
ATOM	3893	O2P	C	A	190B	91.125	76.046	-34.382	1.00	88.80	A16S
ATOM	3894	O5*	C	A	190B	90.483	77.222	-32.289	1.00	98.87	A16S
ATOM	3895	C5*	C	A	190B	89.542	77.783	-31.371	1.00	98.87	A16S
ATOM	3896	C4*	C	A	190B	90.165	77.916	-30.015	1.00	98.87	A16S
ATOM	3897	O4*	C	A	190B	90.315	76.609	-29.410	1.00	98.87	A16S
ATOM	3898	C1*	C	A	190B	91.517	76.566	-28.666	1.00	98.87	A16S
ATOM	3899	N1	C	A	190B	92.372	75.503	-29.235	1.00	88.80	A16S
ATOM	3900	C6	C	A	190B	92.251	75.125	-30.548	1.00	88.80	A16S
ATOM	3901	C2	C	A	190B	93.321	74.880	-28.407	1.00	88.80	A16S
ATOM	3902	O2	C	A	190B	93.408	75.233	-27.222	1.00	88.80	A16S
ATOM	3903	N3	C	A	190B	94.113	73.906	-28.921	1.00	88.80	A16S
ATOM	3904	C4	C	A	190B	93.979	73.543	-30.199	1.00	88.80	A16S
ATOM	3905	N4	C	A	190B	94.768	72.570	-30.657	1.00	88.80	A16S
ATOM	3906	C5	C	A	190B	93.024	74.160	-31.065	1.00	88.80	A16S
ATOM	3907	C2*	C	A	190B	92.144	77.963	-28.728	1.00	98.87	A16S
ATOM	3908	O2*	C	A	190B	91.729	78.736	-27.615	1.00	98.87	A16S
ATOM	3909	C3*	C	A	190B	91.559	78.504	-30.022	1.00	98.87	A16S
ATOM	3910	O3*	C	A	190B	91.514	79.918	-30.073	1.00	98.87	A16S
ATOM	3911	P	C	A	190C	92.860	80.736	-30.361	1.00	104.33	A16S
ATOM	3912	O1P	C	A	190C	92.534	82.185	-30.431	1.00	103.38	A16S
ATOM	3913	O2P	C	A	190C	93.593	80.092	-31.486	1.00	103.38	A16S
ATOM	3914	O5*	C	A	190C	93.671	80.506	-29.019	1.00	104.33	A16S
ATOM	3915	C5*	C	A	190C	95.084	80.512	-29.029	1.00	104.33	A16S
ATOM	3916	C4*	C	A	190C	95.614	79.558	-27.998	1.00	104.33	A16S
ATOM	3917	O4*	C	A	190C	95.150	78.213	-28.257	1.00	104.33	A16S
ATOM	3918	C1*	C	A	190C	96.214	77.294	-28.077	1.00	104.33	A16S
ATOM	3919	N1	C	A	190C	96.439	76.622	-29.375	1.00	103.38	A16S
ATOM	3920	C6	C	A	190C	95.737	77.010	-30.483	1.00	103.38	A16S



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ATOM	3921	C2	C	A	190C	97.361	75.566	-29.461	1.00103.38	A16S
ATOM	3922	O2	C	A	190C	98.027	75.257	-28.463	1.00103.38	A16S
ATOM	3923	N3	C	A	190C	97.508	74.915	-30.637	1.00103.38	A16S
ATOM	3924	C4	C	A	190C	96.798	75.292	-31.703	1.00103.38	A16S
ATOM	3925	N4	C	A	190C	96.964	74.610	-32.839	1.00103.38	A16S
ATOM	3926	C5	C	A	190C	95.883	76.379	-31.652	1.00103.38	A16S
ATOM	3927	C2*	C	A	190C	97.414	78.080	-27.539	1.00104.33	A16S
ATOM	3928	O2*	C	A	190C	97.429	78.046	-26.125	1.00104.33	A16S
ATOM	3929	C3*	C	A	190C	97.115	79.471	-28.068	1.00104.33	A16S
ATOM	3930	O3*	C	A	190C	97.643	80.528	-27.313	1.00104.33	A16S
ATOM	3931	P	U	A	190D	98.779	81.443	-27.956	1.00 95.51	A16S
ATOM	3932	O1P	U	A	190D	98.752	82.745	-27.230	1.00 91.70	A16S
ATOM	3933	O2P	U	A	190D	98.668	81.420	-29.454	1.00 91.70	A16S
ATOM	3934	O5*	U	A	190D	100.083	80.646	-27.522	1.00 95.51	A16S
ATOM	3935	C5*	U	A	190D	101.164	80.434	-28.429	1.00 95.51	A16S
ATOM	3936	C4*	U	A	190D	101.510	78.971	-28.480	1.00 95.51	A16S
ATOM	3937	O4*	U	A	190D	100.495	78.275	-29.251	1.00 95.51	A16S
ATOM	3938	C1*	U	A	190D	101.102	77.621	-30.343	1.00 95.51	A16S
ATOM	3939	N1	U	A	190D	100.209	77.695	-31.505	1.00 91.70	A16S
ATOM	3940	C6	U	A	190D	99.299	78.717	-31.662	1.00 91.70	A16S
ATOM	3941	C2	U	A	190D	100.319	76.685	-32.445	1.00 91.70	A16S
ATOM	3942	O2	U	A	190D	101.117	75.765	-32.340	1.00 91.70	A16S
ATOM	3943	N3	U	A	190D	99.464	76.789	-33.513	1.00 91.70	A16S
ATOM	3944	C4	U	A	190D	98.529	77.778	-33.732	1.00 91.70	A16S
ATOM	3945	O4	U	A	190D	97.808	77.715	-34.733	1.00 91.70	A16S
ATOM	3946	C5	U	A	190D	98.478	78.793	-32.715	1.00 91.70	A16S
ATOM	3947	C2*	U	A	190D	102.438	78.317	-30.578	1.00 95.51	A16S
ATOM	3948	O2*	U	A	190D	103.348	77.466	-31.239	1.00 95.51	A16S
ATOM	3949	C3*	U	A	190D	102.841	78.683	-29.156	1.00 95.51	A16S
ATOM	3950	O3*	U	A	190D	103.459	77.591	-28.484	1.00 95.51	A16S
ATOM	3951	P	U	A	190E	105.062	77.513	-28.391	1.00 82.00	A16S
ATOM	3952	O1P	U	A	190E	105.412	77.120	-26.995	1.00 88.13	A16S
ATOM	3953	O2P	U	A	190E	105.656	78.746	-28.984	1.00 88.13	A16S
ATOM	3954	O5*	U	A	190E	105.422	76.318	-29.370	1.00 82.00	A16S
ATOM	3955	C5*	U	A	190E	105.038	74.996	-29.046	1.00 82.00	A16S
ATOM	3956	C4*	U	A	190E	105.620	74.041	-30.034	1.00 82.00	A16S
ATOM	3957	O4*	U	A	190E	106.924	74.522	-30.445	1.00 82.00	A16S
ATOM	3958	C1*	U	A	190E	107.905	73.562	-30.125	1.00 82.00	A16S
ATOM	3959	N1	U	A	190E	109.119	74.265	-29.675	1.00 88.13	A16S
ATOM	3960	C6	U	A	190E	109.056	75.246	-28.713	1.00 88.13	A16S
ATOM	3961	C2	U	A	190E	110.340	73.905	-30.248	1.00 88.13	A16S
ATOM	3962	O2	U	A	190E	110.453	73.052	-31.123	1.00 88.13	A16S
ATOM	3963	N3	U	A	190E	111.427	74.587	-29.761	1.00 88.13	A16S
ATOM	3964	C4	U	A	190E	111.423	75.570	-28.794	1.00 88.13	A16S
ATOM	3965	O4	U	A	190E	112.485	76.097	-28.468	1.00 88.13	A16S
ATOM	3966	C5	U	A	190E	110.134	75.890	-28.267	1.00 88.13	A16S
ATOM	3967	C2*	U	A	190E	107.287	72.667	-29.051	1.00 82.00	A16S
ATOM	3968	O2*	U	A	190E	107.878	71.390	-29.029	1.00 82.00	A16S
ATOM	3969	C3*	U	A	190E	105.815	72.659	-29.442	1.00 82.00	A16S
ATOM	3970	O3*	U	A	190E	105.536	71.659	-30.411	1.00 82.00	A16S
ATOM	3971	P	G	A	190F	104.201	70.776	-30.270	1.00 76.52	A16S
ATOM	3972	O1P	G	A	190F	104.416	69.511	-31.036	1.00 83.42	A16S
ATOM	3973	O2P	G	A	190F	103.050	71.671	-30.620	1.00 83.42	A16S
ATOM	3974	O5*	G	A	190F	104.134	70.432	-28.711	1.00 76.52	A16S
ATOM	3975	C5*	G	A	190F	103.003	69.735	-28.147	1.00 76.52	A16S
ATOM	3976	C4*	G	A	190F	103.444	68.885	-26.976	1.00 76.52	A16S
ATOM	3977	O4*	G	A	190F	104.408	67.908	-27.446	1.00 76.52	A16S
ATOM	3978	C1*	G	A	190F	105.587	68.020	-26.683	1.00 76.52	A16S
ATOM	3979	N9	G	A	190F	106.725	67.626	-27.507	1.00 83.42	A16S
ATOM	3980	C4	G	A	190F	107.776	66.844	-27.095	1.00 83.42	A16S
ATOM	3981	N3	G	A	190F	107.963	66.370	-25.846	1.00 83.42	A16S
ATOM	3982	C2	G	A	190F	109.031	65.608	-25.766	1.00 83.42	A16S
ATOM	3983	N2	G	A	190F	109.369	65.058	-24.593	1.00 83.42	A16S
ATOM	3984	N1	G	A	190F	109.849	65.326	-26.830	1.00 83.42	A16S
ATOM	3985	C6	G	A	190F	109.669	65.794	-28.126	1.00 83.42	A16S
ATOM	3986	O6	G	A	190F	110.447	65.442	-29.023	1.00 83.42	A16S
ATOM	3987	C5	G	A	190F	108.538	66.633	-28.220	1.00 83.42	A16S
ATOM	3988	N7	G	A	190F	108.012	67.317	-29.306	1.00 83.42	A16S
ATOM	3989	C8	G	A	190F	106.942	67.899	-28.835	1.00 83.42	A16S
ATOM	3990	C2*	G	A	190F	105.597	69.432	-26.108	1.00 76.52	A16S
ATOM	3991	O2*	G	A	190F	106.394	69.475	-24.944	1.00 76.52	A16S
ATOM	3992	C3*	G	A	190F	104.113	69.640	-25.825	1.00 76.52	A16S
ATOM	3993	O3*	G	A	190F	103.862	68.977	-24.583	1.00 76.52	A16S
ATOM	3994	P	G	A	190G	102.377	68.904	-23.976	1.00 79.51	A16S
ATOM	3995	O1P	G	A	190G	102.526	68.187	-22.680	1.00 82.19	A16S
ATOM	3996	O2P	G	A	190G	101.473	68.355	-25.020	1.00 82.19	A16S
ATOM	3997	O5*	G	A	190G	101.953	70.416	-23.697	1.00 79.51	A16S



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ATOM	3998	C5*	G	A	190G	102.456	71.141	-22.548	1.00	79.51	A16S
ATOM	3999	C4*	G	A	190G	101.578	72.343	-22.258	1.00	79.51	A16S
ATOM	4000	O4*	G	A	190G	101.572	73.229	-23.407	1.00	79.51	A16S
ATOM	4001	C1*	G	A	190G	100.254	73.678	-23.668	1.00	79.51	A16S
ATOM	4002	N9	G	A	190G	99.798	73.013	-24.885	1.00	82.19	A16S
ATOM	4003	C4	G	A	190G	98.595	73.197	-25.513	1.00	82.19	A16S
ATOM	4004	N3	G	A	190G	97.603	74.005	-25.093	1.00	82.19	A16S
ATOM	4005	C2	G	A	190G	96.573	73.987	-25.917	1.00	82.19	A16S
ATOM	4006	N2	G	A	190G	95.492	74.730	-25.639	1.00	82.19	A16S
ATOM	4007	N1	G	A	190G	96.528	73.237	-27.074	1.00	82.19	A16S
ATOM	4008	C6	G	A	190G	97.546	72.401	-27.524	1.00	82.19	A16S
ATOM	4009	O6	G	A	190G	97.417	71.784	-28.586	1.00	82.19	A16S
ATOM	4010	C5	G	A	190G	98.643	72.401	-26.637	1.00	82.19	A16S
ATOM	4011	N7	G	A	190G	99.839	71.703	-26.696	1.00	82.19	A16S
ATOM	4012	C8	G	A	190G	100.490	72.094	-25.637	1.00	82.19	A16S
ATOM	4013	C2*	G	A	190G	99.395	73.276	-22.478	1.00	79.51	A16S
ATOM	4014	O2*	G	A	190G	99.386	74.328	-21.528	1.00	79.51	A16S
ATOM	4015	C3*	G	A	190G	100.113	72.013	-22.023	1.00	79.51	A16S
ATOM	4016	O3*	G	A	190G	99.854	71.663	-20.676	1.00	79.51	A16S
ATOM	4017	P	G	A	190H	98.963	70.370	-20.368	1.00	96.51	A16S
ATOM	4018	O1P	G	A	190H	99.066	70.165	-18.896	1.00	81.56	A16S
ATOM	4019	O2P	G	A	190H	99.398	69.289	-21.300	1.00	81.56	A16S
ATOM	4020	O5*	G	A	190H	97.483	70.812	-20.791	1.00	96.51	A16S
ATOM	4021	C5*	G	A	190H	96.783	71.852	-20.073	1.00	96.51	A16S
ATOM	4022	C4*	G	A	190H	95.473	72.213	-20.754	1.00	96.51	A16S
ATOM	4023	O4*	G	A	190H	95.726	72.841	-22.035	1.00	96.51	A16S
ATOM	4024	C1*	G	A	190H	94.626	72.611	-22.899	1.00	96.51	A16S
ATOM	4025	N9	G	A	190H	95.073	71.862	-24.065	1.00	81.56	A16S
ATOM	4026	C4	G	A	190H	94.380	71.718	-25.247	1.00	81.56	A16S
ATOM	4027	N3	G	A	190H	93.198	72.295	-25.549	1.00	81.56	A16S
ATOM	4028	C2	G	A	190H	92.771	71.945	-26.753	1.00	81.56	A16S
ATOM	4029	N2	G	A	190H	91.611	72.435	-27.212	1.00	81.56	A16S
ATOM	4030	N1	G	A	190H	93.448	71.089	-27.592	1.00	81.56	A16S
ATOM	4031	C6	G	A	190H	94.660	70.474	-27.295	1.00	81.56	A16S
ATOM	4032	O6	G	A	190H	95.173	69.690	-28.106	1.00	81.56	A16S
ATOM	4033	C5	G	A	190H	95.138	70.859	-26.011	1.00	81.56	A16S
ATOM	4034	N7	G	A	190H	96.303	70.504	-25.342	1.00	81.56	A16S
ATOM	4035	C8	G	A	190H	96.223	71.126	-24.196	1.00	81.56	A16S
ATOM	4036	C2*	G	A	190H	93.606	71.767	-22.145	1.00	96.51	A16S
ATOM	4037	O2*	G	A	190H	92.610	72.619	-21.624	1.00	96.51	A16S
ATOM	4038	C3*	G	A	190H	94.474	71.110	-21.078	1.00	96.51	A16S
ATOM	4039	O3*	G	A	190H	93.678	70.713	-19.966	1.00	96.51	A16S
ATOM	4040	P	G	A	190I	92.846	69.334	-20.034	1.00	101.52	A16S
ATOM	4041	O1P	G	A	190I	92.279	69.156	-18.669	1.00	98.04	A16S
ATOM	4042	O2P	G	A	190I	93.707	68.273	-20.616	1.00	98.04	A16S
ATOM	4043	O5*	G	A	190I	91.671	69.620	-21.079	1.00	101.52	A16S
ATOM	4044	C5*	G	A	190I	90.629	70.559	-20.758	1.00	101.52	A16S
ATOM	4045	C4*	G	A	190I	89.617	70.667	-21.881	1.00	101.52	A16S
ATOM	4046	O4*	G	A	190I	90.273	71.134	-23.085	1.00	101.52	A16S
ATOM	4047	C1*	G	A	190I	89.616	70.597	-24.222	1.00	101.52	A16S
ATOM	4048	N9	G	A	190I	90.571	69.789	-24.964	1.00	98.04	A16S
ATOM	4049	C4	G	A	190I	90.451	69.398	-26.272	1.00	98.04	A16S
ATOM	4050	N3	G	A	190I	89.427	69.698	-27.094	1.00	98.04	A16S
ATOM	4051	C2	G	A	190I	89.590	69.174	-28.295	1.00	98.04	A16S
ATOM	4052	N2	G	A	190I	88.650	69.364	-29.235	1.00	98.04	A16S
ATOM	4053	N1	G	A	190I	90.682	68.423	-28.659	1.00	98.04	A16S
ATOM	4054	C6	G	A	190I	91.750	68.105	-27.823	1.00	98.04	A16S
ATOM	4055	O6	G	A	190I	92.693	67.419	-28.247	1.00	98.04	A16S
ATOM	4056	C5	G	A	190I	91.578	68.653	-26.534	1.00	98.04	A16S
ATOM	4057	N7	G	A	190I	92.387	68.570	-25.409	1.00	98.04	A16S
ATOM	4058	C8	G	A	190I	91.752	69.260	-24.503	1.00	98.04	A16S
ATOM	4059	C2*	G	A	190I	88.454	69.733	-23.739	1.00	101.52	A16S
ATOM	4060	O2*	G	A	190I	87.252	70.470	-23.840	1.00	101.52	A16S
ATOM	4061	C3*	G	A	190I	88.891	69.399	-22.313	1.00	101.52	A16S
ATOM	4062	O3*	G	A	190I	87.784	69.069	-21.475	1.00	101.52	A16S
ATOM	4063	P	U	A	190J	87.320	67.531	-21.341	1.00	94.52	A16S
ATOM	4064	O1P	U	A	190J	86.080	67.532	-20.516	1.00	124.51	A16S
ATOM	4065	O2P	U	A	190J	88.482	66.704	-20.910	1.00	124.51	A16S
ATOM	4066	O5*	U	A	190J	86.936	67.118	-22.835	1.00	94.52	A16S
ATOM	4067	C5*	U	A	190J	85.804	67.722	-23.479	1.00	94.52	A16S
ATOM	4068	C4*	U	A	190J	85.654	67.218	-24.893	1.00	94.52	A16S
ATOM	4069	O4*	U	A	190J	86.798	67.614	-25.684	1.00	94.52	A16S
ATOM	4070	C1*	U	A	190J	87.007	66.666	-26.716	1.00	94.52	A16S
ATOM	4071	N1	U	A	190J	88.388	66.162	-26.641	1.00	124.51	A16S
ATOM	4072	C6	U	A	190J	89.133	66.238	-25.483	1.00	124.51	A16S
ATOM	4073	C2	U	A	190J	88.918	65.604	-27.791	1.00	124.51	A16S
ATOM	4074	O2	U	A	190J	88.288	65.511	-28.829	1.00	124.51	A16S



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ATOM	4075	N3	U	A	190J	90.210	65.156	-27.679	1.00124.51	A16S
ATOM	4076	C4	U	A	190J	91.012	65.206	-26.557	1.00124.51	A16S
ATOM	4077	O4	U	A	190J	92.175	64.802	-26.627	1.00124.51	A16S
ATOM	4078	C5	U	A	190J	90.392	65.790	-25.404	1.00124.51	A16S
ATOM	4079	C2*	U	A	190J	85.960	65.563	-26.565	1.00 94.52	A16S
ATOM	4080	O2*	U	A	190J	84.900	65.793	-27.474	1.00 94.52	A16S
ATOM	4081	C3*	U	A	190J	85.556	65.718	-25.103	1.00 94.52	A16S
ATOM	4082	O3*	U	A	190J	84.243	65.233	-24.870	1.00 94.52	A16S
ATOM	4083	P	G	A	190K	84.028	63.699	-24.426	1.00102.58	A16S
ATOM	4084	O1P	G	A	190K	82.685	63.657	-23.787	1.00 86.13	A16S
ATOM	4085	O2P	G	A	190K	85.218	63.206	-23.672	1.00 86.13	A16S
ATOM	4086	O5*	G	A	190K	83.957	62.905	-25.807	1.00102.58	A16S
ATOM	4087	C5*	G	A	190K	82.852	63.101	-26.706	1.00102.58	A16S
ATOM	4088	C4*	G	A	190K	83.089	62.364	-27.996	1.00102.58	A16S
ATOM	4089	O4*	G	A	190K	84.150	63.014	-28.743	1.00102.58	A16S
ATOM	4090	C1*	G	A	190K	84.894	62.041	-29.461	1.00102.58	A16S
ATOM	4091	N9	G	A	190K	86.270	62.040	-28.967	1.00 86.13	A16S
ATOM	4092	C4	G	A	190K	87.385	61.587	-29.646	1.00 86.13	A16S
ATOM	4093	N3	G	A	190K	87.412	61.129	-30.917	1.00 86.13	A16S
ATOM	4094	C2	G	A	190K	88.622	60.736	-31.271	1.00 86.13	A16S
ATOM	4095	N2	G	A	190K	88.829	60.272	-32.500	1.00 86.13	A16S
ATOM	4096	N1	G	A	190K	89.715	60.772	-30.442	1.00 86.13	A16S
ATOM	4097	C6	G	A	190K	89.707	61.226	-29.125	1.00 86.13	A16S
ATOM	4098	O6	G	A	190K	90.737	61.180	-28.447	1.00 86.13	A16S
ATOM	4099	C5	G	A	190K	88.426	61.678	-28.739	1.00 86.13	A16S
ATOM	4100	N7	G	A	190K	87.989	62.221	-27.536	1.00 86.13	A16S
ATOM	4101	C8	G	A	190K	86.710	62.428	-27.718	1.00 86.13	A16S
ATOM	4102	C2*	G	A	190K	84.244	60.683	-29.195	1.00102.58	A16S
ATOM	4103	O2*	G	A	190K	83.336	60.377	-30.232	1.00102.58	A16S
ATOM	4104	C3*	G	A	190K	83.561	60.929	-27.857	1.00102.58	A16S
ATOM	4105	O3*	G	A	190K	82.514	60.014	-27.581	1.00102.58	A16S
ATOM	4106	P	U	A	190L	82.832	58.688	-26.720	1.00 92.49	A16S
ATOM	4107	O1P	U	A	190L	81.530	58.137	-26.266	1.00101.44	A16S
ATOM	4108	O2P	U	A	190L	83.873	59.013	-25.708	1.00101.44	A16S
ATOM	4109	O5*	U	A	190L	83.434	57.675	-27.799	1.00 92.49	A16S
ATOM	4110	C5*	U	A	190L	82.596	57.176	-28.856	1.00 92.49	A16S
ATOM	4111	C4*	U	A	190L	83.383	56.341	-29.836	1.00 92.49	A16S
ATOM	4112	O4*	U	A	190L	84.318	57.178	-30.565	1.00 92.49	A16S
ATOM	4113	C1*	U	A	190L	85.469	56.418	-30.903	1.00 92.49	A16S
ATOM	4114	N1	U	A	190L	86.642	56.980	-30.211	1.00101.44	A16S
ATOM	4115	C6	U	A	190L	86.515	57.801	-29.112	1.00101.44	A16S
ATOM	4116	C2	U	A	190L	87.892	56.624	-30.689	1.00101.44	A16S
ATOM	4117	O2	U	A	190L	88.048	55.924	-31.687	1.00101.44	A16S
ATOM	4118	N3	U	A	190L	88.951	57.116	-29.961	1.00101.44	A16S
ATOM	4119	C4	U	A	190L	88.892	57.920	-28.841	1.00101.44	A16S
ATOM	4120	O4	U	A	190L	89.939	58.260	-28.277	1.00101.44	A16S
ATOM	4121	C5	U	A	190L	87.567	58.267	-28.431	1.00101.44	A16S
ATOM	4122	C2*	U	A	190L	85.233	54.990	-30.414	1.00 92.49	A16S
ATOM	4123	O2*	U	A	190L	84.715	54.209	-31.472	1.00 92.49	A16S
ATOM	4124	C3*	U	A	190L	84.243	55.219	-29.281	1.00 92.49	A16S
ATOM	4125	O3*	U	A	190L	83.525	54.040	-28.949	1.00 92.49	A16S
ATOM	4126	P	G	A	191	84.044	53.117	-27.732	1.00 98.14	A16S
ATOM	4127	O1P	G	A	191	83.041	52.043	-27.506	1.00 91.65	A16S
ATOM	4128	O2P	G	A	191	84.422	54.010	-26.602	1.00 91.65	A16S
ATOM	4129	O5*	G	A	191	85.372	52.445	-28.306	1.00 98.14	A16S
ATOM	4130	C5*	G	A	191	85.328	51.617	-29.487	1.00 98.14	A16S
ATOM	4131	C4*	G	A	191	86.722	51.196	-29.892	1.00 98.14	A16S
ATOM	4132	O4*	G	A	191	87.476	52.358	-30.327	1.00 98.14	A16S
ATOM	4133	C1*	G	A	191	88.840	52.208	-29.965	1.00 98.14	A16S
ATOM	4134	N9	G	A	191	89.204	53.278	-29.037	1.00 91.65	A16S
ATOM	4135	C4	G	A	191	90.478	53.582	-28.621	1.00 91.65	A16S
ATOM	4136	N3	G	A	191	91.604	52.952	-29.007	1.00 91.65	A16S
ATOM	4137	C2	G	A	191	92.675	53.468	-28.438	1.00 91.65	A16S
ATOM	4138	N2	G	A	191	93.875	52.957	-28.717	1.00 91.65	A16S
ATOM	4139	N1	G	A	191	92.647	54.518	-27.556	1.00 91.65	A16S
ATOM	4140	C6	G	A	191	91.500	55.179	-27.140	1.00 91.65	A16S
ATOM	4141	O6	G	A	191	91.584	56.108	-26.333	1.00 91.65	A16S
ATOM	4142	C5	G	A	191	90.338	54.640	-27.747	1.00 91.65	A16S
ATOM	4143	N7	G	A	191	89.003	55.000	-27.617	1.00 91.65	A16S
ATOM	4144	C8	G	A	191	88.367	54.169	-28.399	1.00 91.65	A16S
ATOM	4145	C2*	G	A	191	88.997	50.834	-29.320	1.00 98.14	A16S
ATOM	4146	O2*	G	A	191	89.412	49.906	-30.303	1.00 98.14	A16S
ATOM	4147	C3*	G	A	191	87.586	50.579	-28.803	1.00 98.14	A16S
ATOM	4148	O3*	G	A	191	87.314	49.200	-28.575	1.00 98.14	A16S
ATOM	4149	P	U	A	192	87.369	48.623	-27.068	1.00 95.52	A16S
ATOM	4150	O1P	U	A	192	86.866	47.221	-27.116	1.00 80.59	A16S
ATOM	4151	O2P	U	A	192	86.730	49.612	-26.137	1.00 80.59	A16S



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ATOM	4152	O5*	U	A	192	88.928	48.566	-26.736	1.00	95.52	A16S
ATOM	4153	C5*	U	A	192	89.822	47.775	-27.546	1.00	95.52	A16S
ATOM	4154	C4*	U	A	192	91.262	48.031	-27.159	1.00	95.52	A16S
ATOM	4155	O4*	U	A	192	91.627	49.399	-27.467	1.00	95.52	A16S
ATOM	4156	C1*	U	A	192	92.577	49.857	-26.529	1.00	95.52	A16S
ATOM	4157	N1	U	A	192	91.999	50.997	-25.811	1.00	80.59	A16S
ATOM	4158	C6	U	A	192	90.645	51.182	-25.740	1.00	80.59	A16S
ATOM	4159	C2	U	A	192	92.869	51.878	-25.212	1.00	80.59	A16S
ATOM	4160	O2	U	A	192	94.080	51.732	-25.230	1.00	80.59	A16S
ATOM	4161	N3	U	A	192	92.274	52.936	-24.581	1.00	80.59	A16S
ATOM	4162	C4	U	A	192	90.928	53.188	-24.485	1.00	80.59	A16S
ATOM	4163	O4	U	A	192	90.547	54.212	-23.924	1.00	80.59	A16S
ATOM	4164	C5	U	A	192	90.094	52.217	-25.113	1.00	80.59	A16S
ATOM	4165	C2*	U	A	192	92.887	48.707	-25.580	1.00	95.52	A16S
ATOM	4166	O2*	U	A	192	94.019	48.016	-26.065	1.00	95.52	A16S
ATOM	4167	C3*	U	A	192	91.621	47.876	-25.694	1.00	95.52	A16S
ATOM	4168	O3*	U	A	192	91.864	46.531	-25.356	1.00	95.52	A16S
ATOM	4169	P	C	A	193	91.702	46.062	-23.829	1.00	91.47	A16S
ATOM	4170	O1P	C	A	193	92.071	44.613	-23.845	1.00	80.49	A16S
ATOM	4171	O2P	C	A	193	90.367	46.490	-23.309	1.00	80.49	A16S
ATOM	4172	O5*	C	A	193	92.821	46.879	-23.041	1.00	91.47	A16S
ATOM	4173	C5*	C	A	193	94.214	46.689	-23.349	1.00	91.47	A16S
ATOM	4174	C4*	C	A	193	95.064	47.644	-22.558	1.00	91.47	A16S
ATOM	4175	O4*	C	A	193	94.836	49.007	-22.998	1.00	91.47	A16S
ATOM	4176	C1*	C	A	193	94.956	49.884	-21.892	1.00	91.47	A16S
ATOM	4177	N1	C	A	193	93.700	50.637	-21.714	1.00	80.49	A16S
ATOM	4178	C6	C	A	193	92.554	50.277	-22.363	1.00	80.49	A16S
ATOM	4179	C2	C	A	193	93.699	51.740	-20.844	1.00	80.49	A16S
ATOM	4180	O2	C	A	193	94.747	52.049	-20.262	1.00	80.49	A16S
ATOM	4181	N3	C	A	193	92.563	52.433	-20.653	1.00	80.49	A16S
ATOM	4182	C4	C	A	193	91.451	52.069	-21.282	1.00	80.49	A16S
ATOM	4183	N4	C	A	193	90.347	52.782	-21.051	1.00	80.49	A16S
ATOM	4184	C5	C	A	193	91.418	50.956	-22.176	1.00	80.49	A16S
ATOM	4185	C2*	C	A	193	95.290	49.040	-20.663	1.00	91.47	A16S
ATOM	4186	O2*	C	A	193	96.689	49.042	-20.483	1.00	91.47	A16S
ATOM	4187	C3*	C	A	193	94.768	47.674	-21.075	1.00	91.47	A16S
ATOM	4188	O3*	C	A	193	95.420	46.622	-20.396	1.00	91.47	A16S
ATOM	4189	P	C	A	194	94.789	46.054	-19.032	1.00	92.27	A16S
ATOM	4190	O1P	C	A	194	95.513	44.793	-18.757	1.00	78.19	A16S
ATOM	4191	O2P	C	A	194	93.303	46.042	-19.127	1.00	78.19	A16S
ATOM	4192	O5*	C	A	194	95.203	47.124	-17.926	1.00	92.27	A16S
ATOM	4193	C5*	C	A	194	96.546	47.163	-17.407	1.00	92.27	A16S
ATOM	4194	C4*	C	A	194	96.709	48.324	-16.462	1.00	92.27	A16S
ATOM	4195	O4*	C	A	194	96.379	49.543	-17.171	1.00	92.27	A16S
ATOM	4196	C1*	C	A	194	95.752	50.457	-16.290	1.00	92.27	A16S
ATOM	4197	N1	C	A	194	94.403	50.759	-16.797	1.00	78.19	A16S
ATOM	4198	C6	C	A	194	93.830	49.986	-17.769	1.00	78.19	A16S
ATOM	4199	C2	C	A	194	93.705	51.849	-16.259	1.00	78.19	A16S
ATOM	4200	O2	C	A	194	94.250	52.541	-15.391	1.00	78.19	A16S
ATOM	4201	N3	C	A	194	92.457	52.116	-16.698	1.00	78.19	A16S
ATOM	4202	C4	C	A	194	91.903	51.345	-17.635	1.00	78.19	A16S
ATOM	4203	N4	C	A	194	90.661	51.628	-18.029	1.00	78.19	A16S
ATOM	4204	C5	C	A	194	92.595	50.240	-18.211	1.00	78.19	A16S
ATOM	4205	C2*	C	A	194	95.714	49.818	-14.904	1.00	92.27	A16S
ATOM	4206	O2*	C	A	194	96.807	50.330	-14.167	1.00	92.27	A16S
ATOM	4207	C3*	C	A	194	95.801	48.328	-15.242	1.00	92.27	A16S
ATOM	4208	O3*	C	A	194	96.348	47.545	-14.172	1.00	92.27	A16S
ATOM	4209	P	A	A	195	95.526	46.283	-13.585	1.00	83.81	A16S
ATOM	4210	O1P	A	A	195	96.527	45.221	-13.270	1.00	86.86	A16S
ATOM	4211	O2P	A	A	195	94.377	45.977	-14.483	1.00	86.86	A16S
ATOM	4212	O5*	A	A	195	94.945	46.782	-12.193	1.00	83.81	A16S
ATOM	4213	C5*	A	A	195	94.166	47.971	-12.114	1.00	83.81	A16S
ATOM	4214	C4*	A	A	195	94.752	48.898	-11.079	1.00	83.81	A16S
ATOM	4215	O4*	A	A	195	94.036	50.155	-11.120	1.00	83.81	A16S
ATOM	4216	C1*	A	A	195	93.819	50.623	-9.808	1.00	83.81	A16S
ATOM	4217	N9	A	A	195	92.374	50.745	-9.639	1.00	86.86	A16S
ATOM	4218	C4	A	A	195	91.703	51.766	-9.016	1.00	86.86	A16S
ATOM	4219	N3	A	A	195	92.234	52.821	-8.377	1.00	86.86	A16S
ATOM	4220	C2	A	A	195	91.277	53.626	-7.921	1.00	86.86	A16S
ATOM	4221	N1	A	A	195	89.950	53.505	-8.018	1.00	86.86	A16S
ATOM	4222	C6	A	A	195	89.447	52.428	-8.658	1.00	86.86	A16S
ATOM	4223	N6	A	A	195	88.117	52.299	-8.740	1.00	86.86	A16S
ATOM	4224	C5	A	A	195	90.363	51.499	-9.196	1.00	86.86	A16S
ATOM	4225	N7	A	A	195	90.192	50.313	-9.890	1.00	86.86	A16S
ATOM	4226	C8	A	A	195	91.410	49.901	-10.117	1.00	86.86	A16S
ATOM	4227	C2*	A	A	195	94.554	49.692	-8.834	1.00	83.81	A16S
ATOM	4228	O2*	A	A	195	95.801	50.282	-8.520	1.00	83.81	A16S



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ATOM	4229	C3*	A	A	195	94.655	48.396	-9.646	1.00	83.81	A16S
ATOM	4230	O3*	A	A	195	95.827	47.622	-9.345	1.00	83.81	A16S
ATOM	4231	P	A	A	196	95.699	46.207	-8.578	1.00	88.28	A16S
ATOM	4232	O1P	A	A	196	97.010	45.505	-8.689	1.00	75.51	A16S
ATOM	4233	O2P	A	A	196	94.458	45.512	-9.022	1.00	75.51	A16S
ATOM	4234	O5*	A	A	196	95.563	46.639	-7.055	1.00	88.28	A16S
ATOM	4235	C5*	A	A	196	96.674	47.252	-6.375	1.00	88.28	A16S
ATOM	4236	C4*	A	A	196	96.196	47.965	-5.139	1.00	88.28	A16S
ATOM	4237	O4*	A	A	196	95.256	48.986	-5.543	1.00	88.28	A16S
ATOM	4238	C1*	A	A	196	94.189	49.044	-4.620	1.00	88.28	A16S
ATOM	4239	N9	A	A	196	92.966	48.763	-5.364	1.00	75.51	A16S
ATOM	4240	C4	A	A	196	91.906	49.619	-5.534	1.00	75.51	A16S
ATOM	4241	N3	A	A	196	91.777	50.862	-5.041	1.00	75.51	A16S
ATOM	4242	C2	A	A	196	90.621	51.394	-5.419	1.00	75.51	A16S
ATOM	4243	N1	A	A	196	89.651	50.863	-6.172	1.00	75.51	A16S
ATOM	4244	C6	A	A	196	89.809	49.610	-6.650	1.00	75.51	A16S
ATOM	4245	N6	A	A	196	88.834	49.080	-7.396	1.00	75.51	A16S
ATOM	4246	C5	A	A	196	90.996	48.940	-6.326	1.00	75.51	A16S
ATOM	4247	N7	A	A	196	91.471	47.677	-6.649	1.00	75.51	A16S
ATOM	4248	C8	A	A	196	92.638	47.619	-6.052	1.00	75.51	A16S
ATOM	4249	C2*	A	A	196	94.487	48.063	-3.479	1.00	88.28	A16S
ATOM	4250	O2*	A	A	196	95.068	48.755	-2.384	1.00	88.28	A16S
ATOM	4251	C3*	A	A	196	95.446	47.085	-4.152	1.00	88.28	A16S
ATOM	4252	O3*	A	A	196	96.356	46.497	-3.223	1.00	88.28	A16S
ATOM	4253	P	A	A	197	96.551	44.900	-3.190	1.00	106.04	A16S
ATOM	4254	O1P	A	A	197	95.240	44.272	-3.488	1.00	84.68	A16S
ATOM	4255	O2P	A	A	197	97.726	44.565	-4.036	1.00	84.68	A16S
ATOM	4256	O5*	A	A	197	96.918	44.605	-1.667	1.00	106.04	A16S
ATOM	4257	C5*	A	A	197	96.181	43.633	-0.883	1.00	106.04	A16S
ATOM	4258	C4*	A	A	197	95.649	44.280	0.378	1.00	106.04	A16S
ATOM	4259	O4*	A	A	197	96.741	44.932	1.047	1.00	106.04	A16S
ATOM	4260	C1*	A	A	197	96.311	46.138	1.627	1.00	106.04	A16S
ATOM	4261	N9	A	A	197	97.402	47.099	1.469	1.00	84.68	A16S
ATOM	4262	C4	A	A	197	97.945	47.890	2.453	1.00	84.68	A16S
ATOM	4263	N3	A	A	197	97.490	48.069	3.703	1.00	84.68	A16S
ATOM	4264	C2	A	A	197	98.324	48.831	4.398	1.00	84.68	A16S
ATOM	4265	N1	A	A	197	99.476	49.384	4.020	1.00	84.68	A16S
ATOM	4266	C6	A	A	197	99.899	49.193	2.755	1.00	84.68	A16S
ATOM	4267	N6	A	A	197	101.048	49.746	2.378	1.00	84.68	A16S
ATOM	4268	C5	A	A	197	99.100	48.418	1.914	1.00	84.68	A16S
ATOM	4269	N7	A	A	197	99.234	48.048	0.587	1.00	84.68	A16S
ATOM	4270	C8	A	A	197	98.186	47.294	0.363	1.00	84.68	A16S
ATOM	4271	C2*	A	A	197	94.867	46.431	1.206	1.00	106.04	A16S
ATOM	4272	O2*	A	A	197	94.004	46.348	2.319	1.00	106.04	A16S
ATOM	4273	C3*	A	A	197	94.604	45.356	0.147	1.00	106.04	A16S
ATOM	4274	O3*	A	A	197	93.286	44.751	0.152	1.00	106.04	A16S
ATOM	4275	P	G	A	198	92.751	43.848	1.415	1.00	85.52	A16S
ATOM	4276	O1P	G	A	198	92.401	42.513	0.834	1.00	72.79	A16S
ATOM	4277	O2P	G	A	198	91.721	44.608	2.192	1.00	72.79	A16S
ATOM	4278	O5*	G	A	198	93.987	43.587	2.389	1.00	85.52	A16S
ATOM	4279	C5*	G	A	198	93.770	43.252	3.780	1.00	85.52	A16S
ATOM	4280	C4*	G	A	198	94.972	43.648	4.590	1.00	85.52	A16S
ATOM	4281	O4*	G	A	198	95.366	44.975	4.177	1.00	85.52	A16S
ATOM	4282	C1*	G	A	198	95.790	45.725	5.296	1.00	85.52	A16S
ATOM	4283	N9	G	A	198	94.815	46.792	5.509	1.00	72.79	A16S
ATOM	4284	C4	G	A	198	94.991	47.927	6.256	1.00	72.79	A16S
ATOM	4285	N3	G	A	198	96.108	48.266	6.919	1.00	72.79	A16S
ATOM	4286	C2	G	A	198	95.965	49.399	7.574	1.00	72.79	A16S
ATOM	4287	N2	G	A	198	96.972	49.860	8.302	1.00	72.79	A16S
ATOM	4288	N1	G	A	198	94.820	50.151	7.570	1.00	72.79	A16S
ATOM	4289	C6	G	A	198	93.650	49.814	6.898	1.00	72.79	A16S
ATOM	4290	O6	G	A	198	92.653	50.546	6.977	1.00	72.79	A16S
ATOM	4291	C5	G	A	198	93.792	48.599	6.192	1.00	72.79	A16S
ATOM	4292	N7	G	A	198	92.883	47.912	5.405	1.00	72.79	A16S
ATOM	4293	C8	G	A	198	93.531	46.849	5.020	1.00	72.79	A16S
ATOM	4294	C2*	G	A	198	95.850	44.759	6.477	1.00	85.52	A16S
ATOM	4295	O2*	G	A	198	97.125	44.145	6.518	1.00	85.52	A16S
ATOM	4296	C3*	G	A	198	94.780	43.753	6.093	1.00	85.52	A16S
ATOM	4297	O3*	G	A	198	94.994	42.524	6.764	1.00	85.52	A16S
ATOM	4298	P	G	A	199	94.400	42.312	8.245	1.00	75.30	A16S
ATOM	4299	O1P	G	A	199	94.860	40.963	8.683	1.00	79.57	A16S
ATOM	4300	O2P	G	A	199	92.944	42.630	8.226	1.00	79.57	A16S
ATOM	4301	O5*	G	A	199	95.137	43.399	9.147	1.00	75.30	A16S
ATOM	4302	C5*	G	A	199	96.470	43.169	9.609	1.00	75.30	A16S
ATOM	4303	C4*	G	A	199	96.984	44.373	10.349	1.00	75.30	A16S
ATOM	4304	O4*	G	A	199	96.844	45.537	9.502	1.00	75.30	A16S
ATOM	4305	C1*	G	A	199	96.625	46.688	10.297	1.00	75.30	A16S



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ATOM	4306	N9	G	A	199	95.311	47.232	9.994	1.00	79.57	A16S
ATOM	4307	C4	G	A	199	94.832	48.427	10.449	1.00	79.57	A16S
ATOM	4308	N3	G	A	199	95.522	49.315	11.189	1.00	79.57	A16S
ATOM	4309	C2	G	A	199	94.793	50.364	11.502	1.00	79.57	A16S
ATOM	4310	N2	G	A	199	95.344	51.350	12.221	1.00	79.57	A16S
ATOM	4311	N1	G	A	199	93.474	50.521	11.130	1.00	79.57	A16S
ATOM	4312	C6	G	A	199	92.740	49.604	10.373	1.00	79.57	A16S
ATOM	4313	O6	G	A	199	91.544	49.818	10.112	1.00	79.57	A16S
ATOM	4314	C5	G	A	199	93.527	48.491	10.012	1.00	79.57	A16S
ATOM	4315	N7	G	A	199	93.206	47.374	9.254	1.00	79.57	A16S
ATOM	4316	C8	G	A	199	94.297	46.656	9.265	1.00	79.57	A16S
ATOM	4317	C2*	G	A	199	96.623	46.240	11.748	1.00	75.30	A16S
ATOM	4318	O2*	G	A	199	97.904	46.455	12.301	1.00	75.30	A16S
ATOM	4319	C3*	G	A	199	96.241	44.777	11.603	1.00	75.30	A16S
ATOM	4320	O3*	G	A	199	96.617	44.024	12.729	1.00	75.30	A16S
ATOM	4321	P	G	A	200	95.533	43.746	13.879	1.00	88.44	A16S
ATOM	4322	O1P	G	A	200	96.205	42.807	14.824	1.00	72.36	A16S
ATOM	4323	O2P	G	A	200	94.241	43.364	13.231	1.00	72.36	A16S
ATOM	4324	O5*	G	A	200	95.352	45.156	14.598	1.00	88.44	A16S
ATOM	4325	C5*	G	A	200	96.499	45.866	15.077	1.00	88.44	A16S
ATOM	4326	C4*	G	A	200	96.093	47.165	15.721	1.00	88.44	A16S
ATOM	4327	O4*	G	A	200	95.617	48.105	14.731	1.00	88.44	A16S
ATOM	4328	C1*	G	A	200	94.645	48.949	15.315	1.00	88.44	A16S
ATOM	4329	N9	G	A	200	93.417	48.868	14.536	1.00	72.36	A16S
ATOM	4330	C4	G	A	200	92.465	49.847	14.440	1.00	72.36	A16S
ATOM	4331	N3	G	A	200	92.500	51.049	15.058	1.00	72.36	A16S
ATOM	4332	C2	G	A	200	91.440	51.785	14.764	1.00	72.36	A16S
ATOM	4333	N2	G	A	200	91.320	53.015	15.286	1.00	72.36	A16S
ATOM	4334	N1	G	A	200	90.426	51.371	13.930	1.00	72.36	A16S
ATOM	4335	C6	G	A	200	90.378	50.140	13.278	1.00	72.36	A16S
ATOM	4336	O6	G	A	200	89.434	49.872	12.527	1.00	72.36	A16S
ATOM	4337	C5	G	A	200	91.503	49.341	13.590	1.00	72.36	A16S
ATOM	4338	N7	G	A	200	91.839	48.063	13.171	1.00	72.36	A16S
ATOM	4339	C8	G	A	200	92.980	47.823	13.758	1.00	72.36	A16S
ATOM	4340	C2*	G	A	200	94.449	48.516	16.765	1.00	88.44	A16S
ATOM	4341	O2*	G	A	200	95.197	49.389	17.585	1.00	88.44	A16S
ATOM	4342	C3*	G	A	200	94.976	47.084	16.741	1.00	88.44	A16S
ATOM	4343	O3*	G	A	200	95.489	46.662	17.997	1.00	88.44	A16S
ATOM	4344	P	C	A	201	94.620	45.678	18.926	1.00	136.55	A16S
ATOM	4345	O1P	C	A	201	95.523	44.595	19.395	1.00	79.27	A16S
ATOM	4346	O2P	C	A	201	93.340	45.325	18.225	1.00	79.27	A16S
ATOM	4347	O5*	C	A	201	94.341	46.578	20.210	1.00	136.55	A16S
ATOM	4348	C5*	C	A	201	93.010	46.879	20.653	1.00	136.55	A16S
ATOM	4349	C4*	C	A	201	92.715	48.337	20.421	1.00	136.55	A16S
ATOM	4350	O4*	C	A	201	92.672	48.569	19.004	1.00	136.55	A16S
ATOM	4351	C1*	C	A	201	91.674	49.518	18.713	1.00	136.55	A16S
ATOM	4352	N1	C	A	201	90.775	48.952	17.704	1.00	79.27	A16S
ATOM	4353	C6	C	A	201	90.977	47.691	17.208	1.00	79.27	A16S
ATOM	4354	C2	C	A	201	89.730	49.744	17.222	1.00	79.27	A16S
ATOM	4355	O2	C	A	201	89.526	50.854	17.753	1.00	79.27	A16S
ATOM	4356	N3	C	A	201	88.965	49.278	16.204	1.00	79.27	A16S
ATOM	4357	C4	C	A	201	89.199	48.060	15.696	1.00	79.27	A16S
ATOM	4358	N4	C	A	201	88.444	47.647	14.676	1.00	79.27	A16S
ATOM	4359	C5	C	A	201	90.224	47.211	16.211	1.00	79.27	A16S
ATOM	4360	C2*	C	A	201	91.008	49.957	20.014	1.00	136.55	A16S
ATOM	4361	O2*	C	A	201	91.543	51.210	20.386	1.00	136.55	A16S
ATOM	4362	C3*	C	A	201	91.380	48.819	20.954	1.00	136.55	A16S
ATOM	4363	O3*	C	A	201	91.613	49.341	22.245	1.00	136.55	A16S
ATOM	4364	P	U	A	202	90.945	48.651	23.516	1.00	157.04	A16S
ATOM	4365	O1P	U	A	202	92.067	48.323	24.441	1.00	126.16	A16S
ATOM	4366	O2P	U	A	202	90.029	47.568	23.030	1.00	126.16	A16S
ATOM	4367	O5*	U	A	202	90.108	49.847	24.155	1.00	157.04	A16S
ATOM	4368	C5*	U	A	202	88.721	49.687	24.485	1.00	157.04	A16S
ATOM	4369	C4*	U	A	202	87.932	50.890	24.034	1.00	157.04	A16S
ATOM	4370	O4*	U	A	202	88.343	52.061	24.774	1.00	157.04	A16S
ATOM	4371	C1*	U	A	202	88.138	53.213	23.981	1.00	157.04	A16S
ATOM	4372	N1	U	A	202	89.273	54.140	24.150	1.00	126.16	A16S
ATOM	4373	C6	U	A	202	90.320	53.851	25.005	1.00	126.16	A16S
ATOM	4374	C2	U	A	202	89.247	55.342	23.449	1.00	126.16	A16S
ATOM	4375	O2	U	A	202	88.369	55.629	22.649	1.00	126.16	A16S
ATOM	4376	N3	U	A	202	90.293	56.195	23.719	1.00	126.16	A16S
ATOM	4377	C4	U	A	202	91.346	55.979	24.585	1.00	126.16	A16S
ATOM	4378	O4	U	A	202	92.163	56.881	24.783	1.00	126.16	A16S
ATOM	4379	C5	U	A	202	91.326	54.706	25.239	1.00	126.16	A16S
ATOM	4380	C2*	U	A	202	87.753	52.777	22.564	1.00	157.04	A16S
ATOM	4381	O2*	U	A	202	86.387	53.061	22.370	1.00	157.04	A16S
ATOM	4382	C3*	U	A	202	88.093	51.286	22.577	1.00	157.04	A16S



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ATOM	4383	O3*	U	A	202	87.287	50.468	21.716	1.00157.04	A16S
ATOM	4384	P	U	A	203	85.807	50.008	22.176	1.00128.42	A16S
ATOM	4385	O1P	U	A	203	85.061	51.168	22.728	1.00131.96	A16S
ATOM	4386	O2P	U	A	203	85.978	48.793	23.013	1.00131.96	A16S
ATOM	4387	O5*	U	A	203	85.101	49.550	20.821	1.00128.42	A16S
ATOM	4388	C5*	U	A	203	84.894	50.475	19.739	1.00128.42	A16S
ATOM	4389	C4*	U	A	203	84.938	49.743	18.423	1.00128.42	A16S
ATOM	4390	O4*	U	A	203	86.213	49.083	18.319	1.00128.42	A16S
ATOM	4391	C1*	U	A	203	86.080	47.943	17.497	1.00128.42	A16S
ATOM	4392	N1	U	A	203	86.956	46.869	17.997	1.00131.96	A16S
ATOM	4393	C6	U	A	203	87.708	47.038	19.149	1.00131.96	A16S
ATOM	4394	C2	U	A	203	87.048	45.694	17.252	1.00131.96	A16S
ATOM	4395	O2	U	A	203	86.363	45.468	16.257	1.00131.96	A16S
ATOM	4396	N3	U	A	203	87.975	44.792	17.719	1.00131.96	A16S
ATOM	4397	C4	U	A	203	88.792	44.928	18.833	1.00131.96	A16S
ATOM	4398	O4	U	A	203	89.664	44.084	19.048	1.00131.96	A16S
ATOM	4399	C5	U	A	203	88.597	46.136	19.576	1.00131.96	A16S
ATOM	4400	C2*	U	A	203	84.593	47.655	17.275	1.00128.42	A16S
ATOM	4401	O2*	U	A	203	84.293	47.877	15.906	1.00128.42	A16S
ATOM	4402	C3*	U	A	203	83.910	48.633	18.243	1.00128.42	A16S
ATOM	4403	O3*	U	A	203	82.748	49.173	17.604	1.00128.42	A16S
ATOM	4404	P	U	A	204	81.551	49.806	18.475	1.00148.22	A16S
ATOM	4405	O1P	U	A	204	82.096	50.304	19.765	1.00197.74	A16S
ATOM	4406	O2P	U	A	204	80.432	48.825	18.479	1.00197.74	A16S
ATOM	4407	O5*	U	A	204	81.107	51.072	17.613	1.00148.22	A16S
ATOM	4408	C5*	U	A	204	79.740	51.244	17.199	1.00148.22	A16S
ATOM	4409	C4*	U	A	204	79.653	51.316	15.694	1.00148.22	A16S
ATOM	4410	O4*	U	A	204	80.380	50.203	15.120	1.00148.22	A16S
ATOM	4411	C1*	U	A	204	79.695	49.724	13.979	1.00148.22	A16S
ATOM	4412	N1	U	A	204	79.435	48.284	14.150	1.00197.74	A16S
ATOM	4413	C6	U	A	204	79.854	47.608	15.278	1.00197.74	A16S
ATOM	4414	C2	U	A	204	78.751	47.618	13.136	1.00197.74	A16S
ATOM	4415	O2	U	A	204	78.363	48.169	12.115	1.00197.74	A16S
ATOM	4416	N3	U	A	204	78.541	46.280	13.364	1.00197.74	A16S
ATOM	4417	C4	U	A	204	78.932	45.550	14.469	1.00197.74	A16S
ATOM	4418	O4	U	A	204	78.656	44.350	14.530	1.00197.74	A16S
ATOM	4419	C5	U	A	204	79.633	46.303	15.465	1.00197.74	A16S
ATOM	4420	C2*	U	A	204	78.439	50.580	13.775	1.00148.22	A16S
ATOM	4421	O2*	U	A	204	78.679	51.523	12.753	1.00148.22	A16S
ATOM	4422	C3*	U	A	204	78.232	51.202	15.156	1.00148.22	A16S
ATOM	4423	O3*	U	A	204	77.526	52.456	15.035	1.00148.22	A16S
ATOM	4424	P	G	A	216	78.317	53.865	15.134	1.00177.45	A16S
ATOM	4425	O1P	G	A	216	78.841	54.037	16.522	1.00 94.96	A16S
ATOM	4426	O2P	G	A	216	77.478	54.937	14.541	1.00 94.96	A16S
ATOM	4427	O5*	G	A	216	79.524	53.654	14.118	1.00177.45	A16S
ATOM	4428	C5*	G	A	216	80.139	54.760	13.438	1.00177.45	A16S
ATOM	4429	C4*	G	A	216	81.425	55.097	14.125	1.00177.45	A16S
ATOM	4430	O4*	G	A	216	82.018	53.867	14.575	1.00177.45	A16S
ATOM	4431	C1*	G	A	216	83.411	54.012	14.587	1.00177.45	A16S
ATOM	4432	N9	G	A	216	84.010	52.840	13.969	1.00 94.96	A16S
ATOM	4433	C4	G	A	216	85.035	52.127	14.514	1.00 94.96	A16S
ATOM	4434	N3	G	A	216	85.672	52.432	15.662	1.00 94.96	A16S
ATOM	4435	C2	G	A	216	86.582	51.543	15.971	1.00 94.96	A16S
ATOM	4436	N2	G	A	216	87.289	51.704	17.093	1.00 94.96	A16S
ATOM	4437	N1	G	A	216	86.854	50.434	15.208	1.00 94.96	A16S
ATOM	4438	C6	G	A	216	86.208	50.098	14.022	1.00 94.96	A16S
ATOM	4439	O6	G	A	216	86.512	49.064	13.429	1.00 94.96	A16S
ATOM	4440	C5	G	A	216	85.229	51.056	13.674	1.00 94.96	A16S
ATOM	4441	N7	G	A	216	84.366	51.121	12.584	1.00 94.96	A16S
ATOM	4442	C8	G	A	216	83.664	52.203	12.798	1.00 94.96	A16S
ATOM	4443	C2*	G	A	216	83.784	55.382	14.028	1.00177.45	A16S
ATOM	4444	O2*	G	A	216	84.074	56.223	15.126	1.00177.45	A16S
ATOM	4445	C3*	G	A	216	82.503	55.794	13.312	1.00177.45	A16S
ATOM	4446	O3*	G	A	216	82.332	57.201	13.402	1.00177.45	A16S
ATOM	4447	P	C	A	217	83.252	58.177	12.521	1.00144.50	A16S
ATOM	4448	O1P	C	A	217	82.795	59.557	12.865	1.00 89.29	A16S
ATOM	4449	O2P	C	A	217	83.172	57.694	11.107	1.00 89.29	A16S
ATOM	4450	O5*	C	A	217	84.745	57.970	13.074	1.00144.50	A16S
ATOM	4451	C5*	C	A	217	85.374	58.979	13.915	1.00144.50	A16S
ATOM	4452	C4*	C	A	217	86.694	58.490	14.512	1.00144.50	A16S
ATOM	4453	O4*	C	A	217	86.530	57.156	15.063	1.00144.50	A16S
ATOM	4454	C1*	C	A	217	87.771	56.472	15.035	1.00144.50	A16S
ATOM	4455	N1	C	A	217	87.674	55.325	14.122	1.00 89.29	A16S
ATOM	4456	C6	C	A	217	86.989	55.413	12.940	1.00 89.29	A16S
ATOM	4457	C2	C	A	217	88.322	54.147	14.471	1.00 89.29	A16S
ATOM	4458	O2	C	A	217	88.936	54.101	15.547	1.00 89.29	A16S
ATOM	4459	N3	C	A	217	88.273	53.092	13.630	1.00 89.29	A16S



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ATOM	4460	C4	C	A	217	87.613	53.192	12.475	1.00	89.29	A16S
ATOM	4461	N4	C	A	217	87.600	52.132	11.670	1.00	89.29	A16S
ATOM	4462	C5	C	A	217	86.939	54.383	12.095	1.00	89.29	A16S
ATOM	4463	C2*	C	A	217	88.809	57.433	14.480	1.00	144.50	A16S
ATOM	4464	O2*	C	A	217	89.438	58.090	15.560	1.00	144.50	A16S
ATOM	4465	C3*	C	A	217	87.939	58.356	13.640	1.00	144.50	A16S
ATOM	4466	O3*	C	A	217	88.636	59.566	13.406	1.00	144.50	A16S
ATOM	4467	P	C	A	218	89.744	59.625	12.239	1.00	94.25	A16S
ATOM	4468	O1P	C	A	218	90.243	61.019	12.219	1.00	76.93	A16S
ATOM	4469	O2P	C	A	218	89.168	59.027	11.005	1.00	76.93	A16S
ATOM	4470	O5*	C	A	218	90.935	58.693	12.751	1.00	94.25	A16S
ATOM	4471	C5*	C	A	218	91.674	59.033	13.948	1.00	94.25	A16S
ATOM	4472	C4*	C	A	218	92.775	58.026	14.209	1.00	94.25	A16S
ATOM	4473	O4*	C	A	218	92.204	56.724	14.505	1.00	94.25	A16S
ATOM	4474	C1*	C	A	218	93.034	55.701	13.978	1.00	94.25	A16S
ATOM	4475	N1	C	A	218	92.272	54.931	12.976	1.00	76.93	A16S
ATOM	4476	C6	C	A	218	91.112	55.418	12.441	1.00	76.93	A16S
ATOM	4477	C2	C	A	218	92.758	53.682	12.576	1.00	76.93	A16S
ATOM	4478	O2	C	A	218	93.807	53.264	13.074	1.00	76.93	A16S
ATOM	4479	N3	C	A	218	92.071	52.962	11.659	1.00	76.93	A16S
ATOM	4480	C4	C	A	218	90.933	53.442	11.153	1.00	76.93	A16S
ATOM	4481	N4	C	A	218	90.273	52.695	10.265	1.00	76.93	A16S
ATOM	4482	C5	C	A	218	90.416	54.714	11.538	1.00	76.93	A16S
ATOM	4483	C2*	C	A	218	94.260	56.372	13.367	1.00	94.25	A16S
ATOM	4484	O2*	C	A	218	95.307	56.363	14.315	1.00	94.25	A16S
ATOM	4485	C3*	C	A	218	93.725	57.764	13.055	1.00	94.25	A16S
ATOM	4486	O3*	C	A	218	94.753	58.738	12.965	1.00	94.25	A16S
ATOM	4487	P	C	A	219	95.357	59.113	11.522	1.00	107.69	A16S
ATOM	4488	O1P	C	A	219	96.216	60.311	11.746	1.00	67.70	A16S
ATOM	4489	O2P	C	A	219	94.260	59.155	10.491	1.00	67.70	A16S
ATOM	4490	O5*	C	A	219	96.307	57.881	11.181	1.00	107.69	A16S
ATOM	4491	C5*	C	A	219	97.490	57.649	11.953	1.00	107.69	A16S
ATOM	4492	C4*	C	A	219	98.142	56.361	11.539	1.00	107.69	A16S
ATOM	4493	O4*	C	A	219	97.273	55.254	11.886	1.00	107.69	A16S
ATOM	4494	C1*	C	A	219	97.390	54.234	10.909	1.00	107.69	A16S
ATOM	4495	N1	C	A	219	96.101	54.095	10.207	1.00	67.70	A16S
ATOM	4496	C6	C	A	219	95.131	55.049	10.314	1.00	67.70	A16S
ATOM	4497	C2	C	A	219	95.882	52.953	9.412	1.00	67.70	A16S
ATOM	4498	O2	C	A	219	96.776	52.112	9.316	1.00	67.70	A16S
ATOM	4499	N3	C	A	219	94.704	52.804	8.768	1.00	67.70	A16S
ATOM	4500	C4	C	A	219	93.763	53.740	8.886	1.00	67.70	A16S
ATOM	4501	N4	C	A	219	92.614	53.556	8.232	1.00	67.70	A16S
ATOM	4502	C5	C	A	219	93.957	54.912	9.680	1.00	67.70	A16S
ATOM	4503	C2*	C	A	219	98.472	54.671	9.930	1.00	107.69	A16S
ATOM	4504	O2*	C	A	219	99.719	54.150	10.358	1.00	107.69	A16S
ATOM	4505	C3*	C	A	219	98.377	56.183	10.050	1.00	107.69	A16S
ATOM	4506	O3*	C	A	219	99.520	56.854	9.551	1.00	107.69	A16S
ATOM	4507	P	G	A	220	99.481	57.467	8.059	1.00	109.44	A16S
ATOM	4508	O1P	G	A	220	100.844	58.001	7.819	1.00	85.69	A16S
ATOM	4509	O2P	G	A	220	98.307	58.365	7.913	1.00	85.69	A16S
ATOM	4510	O5*	G	A	220	99.218	56.212	7.107	1.00	109.44	A16S
ATOM	4511	C5*	G	A	220	100.177	55.145	7.036	1.00	109.44	A16S
ATOM	4512	C4*	G	A	220	99.653	53.968	6.237	1.00	109.44	A16S
ATOM	4513	O4*	G	A	220	98.477	53.383	6.864	1.00	109.44	A16S
ATOM	4514	C1*	G	A	220	97.732	52.668	5.886	1.00	109.44	A16S
ATOM	4515	N9	G	A	220	96.387	53.220	5.775	1.00	85.69	A16S
ATOM	4516	C4	G	A	220	95.337	52.630	5.120	1.00	85.69	A16S
ATOM	4517	N3	G	A	220	95.354	51.414	4.535	1.00	85.69	A16S
ATOM	4518	C2	G	A	220	94.201	51.131	3.953	1.00	85.69	A16S
ATOM	4519	N2	G	A	220	94.029	49.947	3.333	1.00	85.69	A16S
ATOM	4520	N1	G	A	220	93.126	51.982	3.938	1.00	85.69	A16S
ATOM	4521	C6	G	A	220	93.091	53.241	4.531	1.00	85.69	A16S
ATOM	4522	O6	G	A	220	92.068	53.939	4.446	1.00	85.69	A16S
ATOM	4523	C5	G	A	220	94.314	53.547	5.171	1.00	85.69	A16S
ATOM	4524	N7	G	A	220	94.697	54.676	5.878	1.00	85.69	A16S
ATOM	4525	C8	G	A	220	95.930	54.433	6.227	1.00	85.69	A16S
ATOM	4526	C2*	G	A	220	98.432	52.884	4.547	1.00	109.44	A16S
ATOM	4527	O2*	G	A	220	99.311	51.808	4.298	1.00	109.44	A16S
ATOM	4528	C3*	G	A	220	99.201	54.171	4.802	1.00	109.44	A16S
ATOM	4529	O3*	G	A	220	100.249	54.287	3.859	1.00	109.44	A16S
ATOM	4530	P	C	A	221	99.941	54.953	2.424	1.00	76.41	A16S
ATOM	4531	O1P	C	A	221	101.253	55.192	1.756	1.00	87.02	A16S
ATOM	4532	O2P	C	A	221	98.988	56.084	2.622	1.00	87.02	A16S
ATOM	4533	O5*	C	A	221	99.183	53.827	1.595	1.00	76.41	A16S
ATOM	4534	C5*	C	A	221	99.774	52.549	1.403	1.00	76.41	A16S
ATOM	4535	C4*	C	A	221	98.802	51.650	0.708	1.00	76.41	A16S
ATOM	4536	O4*	C	A	221	97.602	51.521	1.509	1.00	76.41	A16S



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ATOM	4537	C1*	C	A	221	96.465	51.450	0.663	1.00	76.41	A16S
ATOM	4538	N1	C	A	221	95.569	52.579	0.974	1.00	87.02	A16S
ATOM	4539	C6	C	A	221	95.984	53.619	1.761	1.00	87.02	A16S
ATOM	4540	C2	C	A	221	94.274	52.581	0.426	1.00	87.02	A16S
ATOM	4541	O2	C	A	221	93.906	51.604	-0.265	1.00	87.02	A16S
ATOM	4542	N3	C	A	221	93.459	53.640	0.660	1.00	87.02	A16S
ATOM	4543	C4	C	A	221	93.887	54.659	1.407	1.00	87.02	A16S
ATOM	4544	N4	C	A	221	93.062	55.691	1.585	1.00	87.02	A16S
ATOM	4545	C5	C	A	221	95.185	54.667	1.999	1.00	87.02	A16S
ATOM	4546	C2*	C	A	221	96.957	51.505	-0.785	1.00	76.41	A16S
ATOM	4547	O2*	C	A	221	97.035	50.197	-1.336	1.00	76.41	A16S
ATOM	4548	C3*	C	A	221	98.305	52.193	-0.612	1.00	76.41	A16S
ATOM	4549	O3*	C	A	221	99.220	51.915	-1.648	1.00	76.41	A16S
ATOM	4550	P	U	A	222	99.485	53.024	-2.762	1.00	73.17	A16S
ATOM	4551	O1P	U	A	222	100.667	52.569	-3.530	1.00	74.52	A16S
ATOM	4552	O2P	U	A	222	99.495	54.357	-2.093	1.00	74.52	A16S
ATOM	4553	O5*	U	A	222	98.198	52.931	-3.688	1.00	73.17	A16S
ATOM	4554	C5*	U	A	222	97.878	51.710	-4.349	1.00	73.17	A16S
ATOM	4555	C4*	U	A	222	96.707	51.913	-5.262	1.00	73.17	A16S
ATOM	4556	O4*	U	A	222	95.500	52.082	-4.488	1.00	73.17	A16S
ATOM	4557	C1*	U	A	222	94.643	52.998	-5.137	1.00	73.17	A16S
ATOM	4558	N1	U	A	222	94.393	54.118	-4.220	1.00	74.52	A16S
ATOM	4559	C6	U	A	222	95.172	54.318	-3.110	1.00	74.52	A16S
ATOM	4560	C2	U	A	222	93.336	54.957	-4.501	1.00	74.52	A16S
ATOM	4561	O2	U	A	222	92.642	54.837	-5.492	1.00	74.52	A16S
ATOM	4562	N3	U	A	222	93.122	55.951	-3.584	1.00	74.52	A16S
ATOM	4563	C4	U	A	222	93.847	56.197	-2.446	1.00	74.52	A16S
ATOM	4564	O4	U	A	222	93.511	57.121	-1.696	1.00	74.52	A16S
ATOM	4565	C5	U	A	222	94.943	55.301	-2.237	1.00	74.52	A16S
ATOM	4566	C2*	U	A	222	95.309	53.407	-6.447	1.00	73.17	A16S
ATOM	4567	O2*	U	A	222	94.826	52.548	-7.460	1.00	73.17	A16S
ATOM	4568	C3*	U	A	222	96.776	53.150	-6.132	1.00	73.17	A16S
ATOM	4569	O3*	U	A	222	97.562	52.893	-7.284	1.00	73.17	A16S
ATOM	4570	P	U	A	223	98.426	54.078	-7.933	1.00	76.16	A16S
ATOM	4571	O1P	U	A	223	99.418	53.416	-8.823	1.00	76.19	A16S
ATOM	4572	O2P	U	A	223	98.882	54.979	-6.849	1.00	76.19	A16S
ATOM	4573	O5*	U	A	223	97.370	54.871	-8.816	1.00	76.16	A16S
ATOM	4574	C5*	U	A	223	96.611	54.179	-9.811	1.00	76.16	A16S
ATOM	4575	C4*	U	A	223	95.465	55.030	-10.279	1.00	76.16	A16S
ATOM	4576	O4*	U	A	223	94.422	55.082	-9.275	1.00	76.16	A16S
ATOM	4577	C1*	U	A	223	93.791	56.351	-9.308	1.00	76.16	A16S
ATOM	4578	N1	U	A	223	93.971	56.999	-8.000	1.00	76.19	A16S
ATOM	4579	C6	U	A	223	95.004	56.646	-7.171	1.00	76.19	A16S
ATOM	4580	C2	U	A	223	93.069	57.980	-7.631	1.00	76.19	A16S
ATOM	4581	O2	U	A	223	92.131	58.321	-8.330	1.00	76.19	A16S
ATOM	4582	N3	U	A	223	93.303	58.548	-6.407	1.00	76.19	A16S
ATOM	4583	C4	U	A	223	94.318	58.240	-5.530	1.00	76.19	A16S
ATOM	4584	O4	U	A	223	94.391	58.834	-4.450	1.00	76.19	A16S
ATOM	4585	C5	U	A	223	95.203	57.216	-5.983	1.00	76.19	A16S
ATOM	4586	C2*	U	A	223	94.436	57.145	-10.440	1.00	76.16	A16S
ATOM	4587	O2*	U	A	223	93.680	56.922	-11.611	1.00	76.16	A16S
ATOM	4588	C3*	U	A	223	95.802	56.483	-10.531	1.00	76.16	A16S
ATOM	4589	O3*	U	A	223	96.445	56.662	-11.777	1.00	76.16	A16S
ATOM	4590	P	C	A	224	97.596	57.777	-11.915	1.00	92.96	A16S
ATOM	4591	O1P	C	A	224	98.205	57.528	-13.255	1.00	72.05	A16S
ATOM	4592	O2P	C	A	224	98.463	57.793	-10.704	1.00	72.05	A16S
ATOM	4593	O5*	C	A	224	96.768	59.139	-11.940	1.00	92.96	A16S
ATOM	4594	C5*	C	A	224	95.725	59.318	-12.904	1.00	92.96	A16S
ATOM	4595	C4*	C	A	224	94.821	60.457	-12.513	1.00	92.96	A16S
ATOM	4596	O4*	C	A	224	94.077	60.134	-11.315	1.00	92.96	A16S
ATOM	4597	C1*	C	A	224	93.739	61.333	-10.645	1.00	92.96	A16S
ATOM	4598	N1	C	A	224	94.279	61.300	-9.287	1.00	72.05	A16S
ATOM	4599	C6	C	A	224	95.242	60.405	-8.928	1.00	72.05	A16S
ATOM	4600	C2	C	A	224	93.803	62.237	-8.363	1.00	72.05	A16S
ATOM	4601	O2	C	A	224	92.905	63.022	-8.701	1.00	72.05	A16S
ATOM	4602	N3	C	A	224	94.328	62.270	-7.132	1.00	72.05	A16S
ATOM	4603	C4	C	A	224	95.289	61.417	-6.798	1.00	72.05	A16S
ATOM	4604	N4	C	A	224	95.797	61.519	-5.570	1.00	72.05	A16S
ATOM	4605	C5	C	A	224	95.774	60.430	-7.706	1.00	72.05	A16S
ATOM	4606	C2*	C	A	224	94.362	62.496	-11.413	1.00	92.96	A16S
ATOM	4607	O2*	C	A	224	93.371	63.077	-12.234	1.00	92.96	A16S
ATOM	4608	C3*	C	A	224	95.463	61.796	-12.198	1.00	92.96	A16S
ATOM	4609	O3*	C	A	224	95.793	62.515	-13.378	1.00	92.96	A16S
ATOM	4610	P	C	A	225	97.016	63.561	-13.360	1.00	83.79	A16S
ATOM	4611	O1P	C	A	225	97.384	63.768	-14.796	1.00	77.48	A16S
ATOM	4612	O2P	C	A	225	98.043	63.087	-12.403	1.00	77.48	A16S
ATOM	4613	O5*	C	A	225	96.386	64.888	-12.738	1.00	83.79	A16S



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ATOM	4614	C5*	C	A	225	95.349	65.595	-13.427	1.00	83.79	A16S
ATOM	4615	C4*	C	A	225	94.748	66.646	-12.532	1.00	83.79	A16S
ATOM	4616	O4*	C	A	225	94.172	66.011	-11.363	1.00	83.79	A16S
ATOM	4617	C1*	C	A	225	94.260	66.889	-10.255	1.00	83.79	A16S
ATOM	4618	N1	C	A	225	95.005	66.227	-9.175	1.00	77.48	A16S
ATOM	4619	C6	C	A	225	95.670	65.049	-9.384	1.00	77.48	A16S
ATOM	4620	C2	C	A	225	95.026	66.840	-7.908	1.00	77.48	A16S
ATOM	4621	O2	C	A	225	94.404	67.901	-7.744	1.00	77.48	A16S
ATOM	4622	N3	C	A	225	95.718	66.260	-6.901	1.00	77.48	A16S
ATOM	4623	C4	C	A	225	96.364	65.112	-7.115	1.00	77.48	A16S
ATOM	4624	N4	C	A	225	97.029	64.574	-6.090	1.00	77.48	A16S
ATOM	4625	C5	C	A	225	96.355	64.461	-8.392	1.00	77.48	A16S
ATOM	4626	C2*	C	A	225	94.957	68.165	-10.722	1.00	83.79	A16S
ATOM	4627	O2*	C	A	225	93.979	69.135	-11.028	1.00	83.79	A16S
ATOM	4628	C3*	C	A	225	95.704	67.670	-11.951	1.00	83.79	A16S
ATOM	4629	O3*	C	A	225	95.999	68.717	-12.856	1.00	83.79	A16S
ATOM	4630	P	G	A	226	97.478	69.346	-12.868	1.00	90.15	A16S
ATOM	4631	O1P	G	A	226	97.523	70.258	-14.045	1.00	80.14	A16S
ATOM	4632	O2P	G	A	226	98.475	68.258	-12.746	1.00	80.14	A16S
ATOM	4633	O5*	G	A	226	97.556	70.192	-11.523	1.00	90.15	A16S
ATOM	4634	C5*	G	A	226	96.908	71.455	-11.459	1.00	90.15	A16S
ATOM	4635	C4*	G	A	226	96.832	71.948	-10.045	1.00	90.15	A16S
ATOM	4636	O4*	G	A	226	96.188	70.955	-9.203	1.00	90.15	A16S
ATOM	4637	C1*	G	A	226	96.663	71.092	-7.871	1.00	90.15	A16S
ATOM	4638	N9	G	A	226	97.333	69.864	-7.447	1.00	80.14	A16S
ATOM	4639	C4	G	A	226	97.755	69.611	-6.169	1.00	80.14	A16S
ATOM	4640	N3	G	A	226	97.586	70.430	-5.116	1.00	80.14	A16S
ATOM	4641	C2	G	A	226	98.124	69.942	-4.018	1.00	80.14	A16S
ATOM	4642	N2	G	A	226	98.050	70.642	-2.887	1.00	80.14	A16S
ATOM	4643	N1	G	A	226	98.777	68.737	-3.946	1.00	80.14	A16S
ATOM	4644	C6	G	A	226	98.965	67.868	-5.014	1.00	80.14	A16S
ATOM	4645	O6	G	A	226	99.577	66.806	-4.836	1.00	80.14	A16S
ATOM	4646	C5	G	A	226	98.384	68.388	-6.219	1.00	80.14	A16S
ATOM	4647	N7	G	A	226	98.337	67.864	-7.506	1.00	80.14	A16S
ATOM	4648	C8	G	A	226	97.700	68.771	-8.201	1.00	80.14	A16S
ATOM	4649	C2*	G	A	226	97.679	72.230	-7.871	1.00	90.15	A16S
ATOM	4650	O2*	G	A	226	97.030	73.436	-7.513	1.00	90.15	A16S
ATOM	4651	C3*	G	A	226	98.137	72.209	-9.321	1.00	90.15	A16S
ATOM	4652	O3*	G	A	226	98.796	73.399	-9.705	1.00	90.15	A16S
ATOM	4653	P	G	A	227	100.394	73.500	-9.523	1.00	81.08	A16S
ATOM	4654	O1P	G	A	227	100.811	74.657	-10.357	1.00	83.49	A16S
ATOM	4655	O2P	G	A	227	101.044	72.171	-9.746	1.00	83.49	A16S
ATOM	4656	O5*	G	A	227	100.574	73.866	-7.982	1.00	81.08	A16S
ATOM	4657	C5*	G	A	227	99.832	74.946	-7.397	1.00	81.08	A16S
ATOM	4658	C4*	G	A	227	99.871	74.849	-5.896	1.00	81.08	A16S
ATOM	4659	O4*	G	A	227	99.341	73.562	-5.494	1.00	81.08	A16S
ATOM	4660	C1*	G	A	227	100.013	73.105	-4.335	1.00	81.08	A16S
ATOM	4661	N9	G	A	227	100.651	71.824	-4.621	1.00	83.49	A16S
ATOM	4662	C4	G	A	227	101.337	71.066	-3.711	1.00	83.49	A16S
ATOM	4663	N3	G	A	227	101.531	71.384	-2.417	1.00	83.49	A16S
ATOM	4664	C2	G	A	227	102.250	70.476	-1.793	1.00	83.49	A16S
ATOM	4665	N2	G	A	227	102.554	70.653	-0.498	1.00	83.49	A16S
ATOM	4666	N1	G	A	227	102.729	69.331	-2.391	1.00	83.49	A16S
ATOM	4667	C6	G	A	227	102.530	68.981	-3.722	1.00	83.49	A16S
ATOM	4668	O6	G	A	227	102.992	67.925	-4.157	1.00	83.49	A16S
ATOM	4669	C5	G	A	227	101.774	69.958	-4.406	1.00	83.49	A16S
ATOM	4670	N7	G	A	227	101.368	70.015	-5.732	1.00	83.49	A16S
ATOM	4671	C8	G	A	227	100.703	71.138	-5.815	1.00	83.49	A16S
ATOM	4672	C2*	G	A	227	101.039	74.163	-3.948	1.00	81.08	A16S
ATOM	4673	O2*	G	A	227	100.478	74.973	-2.944	1.00	81.08	A16S
ATOM	4674	C3*	G	A	227	101.252	74.882	-5.273	1.00	81.08	A16S
ATOM	4675	O3*	G	A	227	101.724	76.207	-5.112	1.00	81.08	A16S
ATOM	4676	P	A	A	228	103.260	76.544	-5.443	1.00	80.82	A16S
ATOM	4677	O1P	A	A	228	103.390	78.018	-5.305	1.00	66.88	A16S
ATOM	4678	O2P	A	A	228	103.648	75.877	-6.720	1.00	66.88	A16S
ATOM	4679	O5*	A	A	228	104.067	75.883	-4.243	1.00	80.82	A16S
ATOM	4680	C5*	A	A	228	103.891	76.367	-2.902	1.00	80.82	A16S
ATOM	4681	C4*	A	A	228	104.560	75.448	-1.909	1.00	80.82	A16S
ATOM	4682	O4*	A	A	228	103.931	74.136	-1.937	1.00	80.82	A16S
ATOM	4683	C1*	A	A	228	104.897	73.123	-1.682	1.00	80.82	A16S
ATOM	4684	N9	A	A	228	105.022	72.281	-2.878	1.00	66.88	A16S
ATOM	4685	C4	A	A	228	105.502	70.992	-2.952	1.00	66.88	A16S
ATOM	4686	N3	A	A	228	105.939	70.220	-1.943	1.00	66.88	A16S
ATOM	4687	C2	A	A	228	106.340	69.035	-2.399	1.00	66.88	A16S
ATOM	4688	N1	A	A	228	106.356	68.569	-3.653	1.00	66.88	A16S
ATOM	4689	C6	A	A	228	105.914	69.376	-4.646	1.00	66.88	A16S
ATOM	4690	N6	A	A	228	105.938	68.930	-5.912	1.00	66.88	A16S



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ATOM	4691	C5	A	A 228	105.457	70.651	-4.292	1.00	66.88	A16S
ATOM	4692	N7	A	A 228	104.950	71.693	-5.049	1.00	66.88	A16S
ATOM	4693	C8	A	A 228	104.705	72.631	-4.168	1.00	66.88	A16S
ATOM	4694	C2*	A	A 228	106.205	73.839	-1.373	1.00	80.82	A16S
ATOM	4695	O2*	A	A 228	106.259	73.992	0.032	1.00	80.82	A16S
ATOM	4696	C3*	A	A 228	106.024	75.145	-2.151	1.00	80.82	A16S
ATOM	4697	O3*	A	A 228	106.881	76.217	-1.771	1.00	80.82	A16S
ATOM	4698	P	U	A 229	108.239	76.477	-2.610	1.00	78.82	A16S
ATOM	4699	O1P	U	A 229	108.860	77.701	-2.017	1.00	66.29	A16S
ATOM	4700	O2P	U	A 229	107.955	76.417	-4.090	1.00	66.29	A16S
ATOM	4701	O5*	U	A 229	109.175	75.253	-2.197	1.00	78.82	A16S
ATOM	4702	C5*	U	A 229	109.470	75.029	-0.809	1.00	78.82	A16S
ATOM	4703	C4*	U	A 229	110.163	73.709	-0.609	1.00	78.82	A16S
ATOM	4704	O4*	U	A 229	109.278	72.602	-0.910	1.00	78.82	A16S
ATOM	4705	C1*	U	A 229	110.025	71.531	-1.463	1.00	78.82	A16S
ATOM	4706	N1	U	A 229	109.605	71.340	-2.859	1.00	66.29	A16S
ATOM	4707	C6	U	A 229	109.049	72.376	-3.574	1.00	66.29	A16S
ATOM	4708	C2	U	A 229	109.804	70.091	-3.454	1.00	66.29	A16S
ATOM	4709	O2	U	A 229	110.270	69.123	-2.853	1.00	66.29	A16S
ATOM	4710	N3	U	A 229	109.433	70.017	-4.781	1.00	66.29	A16S
ATOM	4711	C4	U	A 229	108.882	71.027	-5.550	1.00	66.29	A16S
ATOM	4712	O4	U	A 229	108.579	70.807	-6.725	1.00	66.29	A16S
ATOM	4713	C5	U	A 229	108.692	72.264	-4.859	1.00	66.29	A16S
ATOM	4714	C2*	U	A 229	111.490	71.948	-1.427	1.00	78.82	A16S
ATOM	4715	O2*	U	A 229	112.050	71.522	-0.204	1.00	78.82	A16S
ATOM	4716	C3*	U	A 229	111.367	73.460	-1.487	1.00	78.82	A16S
ATOM	4717	O3*	U	A 229	112.524	74.127	-1.029	1.00	78.82	A16S
ATOM	4718	P	G	A 230	113.660	74.521	-2.089	1.00	76.51	A16S
ATOM	4719	O1P	G	A 230	114.751	75.207	-1.330	1.00	62.78	A16S
ATOM	4720	O2P	G	A 230	113.000	75.208	-3.232	1.00	62.78	A16S
ATOM	4721	O5*	G	A 230	114.174	73.109	-2.620	1.00	76.51	A16S
ATOM	4722	C5*	G	A 230	114.761	72.164	-1.714	1.00	76.51	A16S
ATOM	4723	C4*	G	A 230	115.073	70.870	-2.420	1.00	76.51	A16S
ATOM	4724	O4*	G	A 230	113.846	70.205	-2.794	1.00	76.51	A16S
ATOM	4725	C1*	G	A 230	114.040	69.510	-4.015	1.00	76.51	A16S
ATOM	4726	N9	G	A 230	113.154	70.088	-5.019	1.00	62.78	A16S
ATOM	4727	C4	G	A 230	112.795	69.504	-6.205	1.00	62.78	A16S
ATOM	4728	N3	G	A 230	113.171	68.285	-6.625	1.00	62.78	A16S
ATOM	4729	C2	G	A 230	112.652	67.986	-7.801	1.00	62.78	A16S
ATOM	4730	N2	G	A 230	112.870	66.779	-8.337	1.00	62.78	A16S
ATOM	4731	N1	G	A 230	111.867	68.836	-8.532	1.00	62.78	A16S
ATOM	4732	C6	G	A 230	111.482	70.108	-8.133	1.00	62.78	A16S
ATOM	4733	O6	G	A 230	110.782	70.814	-8.891	1.00	62.78	A16S
ATOM	4734	C5	G	A 230	111.994	70.424	-6.839	1.00	62.78	A16S
ATOM	4735	N7	G	A 230	111.829	71.560	-6.053	1.00	62.78	A16S
ATOM	4736	C8	G	A 230	112.537	71.317	-4.985	1.00	62.78	A16S
ATOM	4737	C2*	G	A 230	115.496	69.699	-4.432	1.00	76.51	A16S
ATOM	4738	O2*	G	A 230	116.293	68.634	-3.963	1.00	76.51	A16S
ATOM	4739	C3*	G	A 230	115.838	70.991	-3.723	1.00	76.51	A16S
ATOM	4740	O3*	G	A 230	117.224	71.106	-3.534	1.00	76.51	A16S
ATOM	4741	P	G	A 231	118.073	71.993	-4.561	1.00	78.45	A16S
ATOM	4742	O1P	G	A 231	119.457	71.957	-3.995	1.00	70.25	A16S
ATOM	4743	O2P	G	A 231	117.383	73.315	-4.741	1.00	70.25	A16S
ATOM	4744	O5*	G	A 231	117.982	71.167	-5.936	1.00	78.45	A16S
ATOM	4745	C5*	G	A 231	118.632	69.887	-6.036	1.00	78.45	A16S
ATOM	4746	C4*	G	A 231	118.090	69.035	-7.172	1.00	78.45	A16S
ATOM	4747	O4*	G	A 231	116.640	69.027	-7.210	1.00	78.45	A16S
ATOM	4748	C1*	G	A 231	116.216	68.574	-8.490	1.00	78.45	A16S
ATOM	4749	N9	G	A 231	115.301	69.535	-9.098	1.00	70.25	A16S
ATOM	4750	C4	G	A 231	114.725	69.397	-10.339	1.00	70.25	A16S
ATOM	4751	N3	G	A 231	114.866	68.340	-11.157	1.00	70.25	A16S
ATOM	4752	C2	G	A 231	114.215	68.502	-12.290	1.00	70.25	A16S
ATOM	4753	N2	G	A 231	114.229	67.528	-13.214	1.00	70.25	A16S
ATOM	4754	N1	G	A 231	113.502	69.621	-12.605	1.00	70.25	A16S
ATOM	4755	C6	G	A 231	113.355	70.729	-11.787	1.00	70.25	A16S
ATOM	4756	O6	G	A 231	112.713	71.707	-12.190	1.00	70.25	A16S
ATOM	4757	C5	G	A 231	114.025	70.556	-10.551	1.00	70.25	A16S
ATOM	4758	N7	G	A 231	114.119	71.395	-9.449	1.00	70.25	A16S
ATOM	4759	C8	G	A 231	114.881	70.746	-8.610	1.00	70.25	A16S
ATOM	4760	C2*	G	A 231	117.459	68.477	-9.370	1.00	78.45	A16S
ATOM	4761	O2*	G	A 231	117.846	67.124	-9.486	1.00	78.45	A16S
ATOM	4762	C3*	G	A 231	118.457	69.344	-8.609	1.00	78.45	A16S
ATOM	4763	O3*	G	A 231	119.776	68.956	-8.957	1.00	78.45	A16S
ATOM	4764	P	G	A 232	120.470	69.585	-10.275	1.00	67.23	A16S
ATOM	4765	O1P	G	A 232	121.921	69.261	-10.150	1.00	68.55	A16S
ATOM	4766	O2P	G	A 232	120.052	71.013	-10.447	1.00	68.55	A16S
ATOM	4767	O5*	G	A 232	119.855	68.741	-11.488	1.00	67.23	A16S



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ATOM	4768	C5*	G	A	232	120.026	67.307	-11.551	1.00	67.23	A16S
ATOM	4769	C4*	G	A	232	119.546	66.770	-12.879	1.00	67.23	A16S
ATOM	4770	O4*	G	A	232	118.104	66.842	-12.963	1.00	67.23	A16S
ATOM	4771	C1*	G	A	232	117.717	67.226	-14.269	1.00	67.23	A16S
ATOM	4772	N9	G	A	232	117.135	68.556	-14.163	1.00	68.55	A16S
ATOM	4773	C4	G	A	232	116.275	69.173	-15.039	1.00	68.55	A16S
ATOM	4774	N3	G	A	232	115.814	68.662	-16.196	1.00	68.55	A16S
ATOM	4775	C2	G	A	232	114.992	69.500	-16.812	1.00	68.55	A16S
ATOM	4776	N2	G	A	232	114.430	69.166	-17.989	1.00	68.55	A16S
ATOM	4777	N1	G	A	232	114.652	70.736	-16.328	1.00	68.55	A16S
ATOM	4778	C6	G	A	232	115.109	71.285	-15.136	1.00	68.55	A16S
ATOM	4779	O6	G	A	232	114.725	72.425	-14.782	1.00	68.55	A16S
ATOM	4780	C5	G	A	232	115.995	70.396	-14.468	1.00	68.55	A16S
ATOM	4781	N7	G	A	232	116.674	70.546	-13.269	1.00	68.55	A16S
ATOM	4782	C8	G	A	232	117.340	69.437	-13.134	1.00	68.55	A16S
ATOM	4783	C2*	G	A	232	118.976	67.230	-15.126	1.00	67.23	A16S
ATOM	4784	O2*	G	A	232	119.164	65.945	-15.676	1.00	67.23	A16S
ATOM	4785	C3*	G	A	232	120.042	67.529	-14.090	1.00	67.23	A16S
ATOM	4786	O3*	G	A	232	121.312	67.073	-14.502	1.00	67.23	A16S
ATOM	4787	P	C	A	233	122.336	68.113	-15.164	1.00	66.12	A16S
ATOM	4788	O1P	C	A	233	123.600	67.404	-15.539	1.00	72.96	A16S
ATOM	4789	O2P	C	A	233	122.383	69.286	-14.234	1.00	72.96	A16S
ATOM	4790	O5*	C	A	233	121.619	68.548	-16.514	1.00	66.12	A16S
ATOM	4791	C5*	C	A	233	121.332	67.581	-17.516	1.00	66.12	A16S
ATOM	4792	C4*	C	A	233	120.457	68.186	-18.571	1.00	66.12	A16S
ATOM	4793	O4*	C	A	233	119.153	68.491	-18.013	1.00	66.12	A16S
ATOM	4794	C1*	C	A	233	118.633	69.663	-18.621	1.00	66.12	A16S
ATOM	4795	N1	C	A	233	118.424	70.682	-17.578	1.00	72.96	A16S
ATOM	4796	C6	C	A	233	118.971	70.531	-16.340	1.00	72.96	A16S
ATOM	4797	C2	C	A	233	117.669	71.826	-17.881	1.00	72.96	A16S
ATOM	4798	O2	C	A	233	117.164	71.943	-19.011	1.00	72.96	A16S
ATOM	4799	N3	C	A	233	117.510	72.776	-16.937	1.00	72.96	A16S
ATOM	4800	C4	C	A	233	118.058	72.618	-15.735	1.00	72.96	A16S
ATOM	4801	N4	C	A	233	117.871	73.580	-14.827	1.00	72.96	A16S
ATOM	4802	C5	C	A	233	118.819	71.466	-15.402	1.00	72.96	A16S
ATOM	4803	C2*	C	A	233	119.654	70.121	-19.659	1.00	66.12	A16S
ATOM	4804	O2*	C	A	233	119.309	69.561	-20.906	1.00	66.12	A16S
ATOM	4805	C3*	C	A	233	120.936	69.513	-19.115	1.00	66.12	A16S
ATOM	4806	O3*	C	A	233	121.921	69.350	-20.109	1.00	66.12	A16S
ATOM	4807	P	C	A	234	122.948	70.553	-20.396	1.00	74.55	A16S
ATOM	4808	O1P	C	A	234	123.895	70.059	-21.425	1.00	63.35	A16S
ATOM	4809	O2P	C	A	234	123.468	71.092	-19.105	1.00	63.35	A16S
ATOM	4810	O5*	C	A	234	122.034	71.664	-21.079	1.00	74.55	A16S
ATOM	4811	C5*	C	A	234	121.386	71.382	-22.333	1.00	74.55	A16S
ATOM	4812	C4*	C	A	234	120.727	72.619	-22.872	1.00	74.55	A16S
ATOM	4813	O4*	C	A	234	119.565	72.957	-22.080	1.00	74.55	A16S
ATOM	4814	C1*	C	A	234	119.453	74.363	-21.976	1.00	74.55	A16S
ATOM	4815	N1	C	A	234	119.647	74.738	-20.574	1.00	63.35	A16S
ATOM	4816	C6	C	A	234	120.264	73.888	-19.699	1.00	63.35	A16S
ATOM	4817	C2	C	A	234	119.197	76.005	-20.143	1.00	63.35	A16S
ATOM	4818	O2	C	A	234	118.621	76.760	-20.967	1.00	63.35	A16S
ATOM	4819	N3	C	A	234	119.399	76.371	-18.848	1.00	63.35	A16S
ATOM	4820	C4	C	A	234	120.010	75.527	-18.005	1.00	63.35	A16S
ATOM	4821	N4	C	A	234	120.195	75.925	-16.742	1.00	63.35	A16S
ATOM	4822	C5	C	A	234	120.461	74.235	-18.420	1.00	63.35	A16S
ATOM	4823	C2*	C	A	234	120.556	74.975	-22.826	1.00	74.55	A16S
ATOM	4824	O2*	C	A	234	120.009	75.251	-24.097	1.00	74.55	A16S
ATOM	4825	C3*	C	A	234	121.587	73.857	-22.808	1.00	74.55	A16S
ATOM	4826	O3*	C	A	234	122.523	73.895	-23.858	1.00	74.55	A16S
ATOM	4827	P	C	A	235	123.849	74.772	-23.674	1.00	66.95	A16S
ATOM	4828	O1P	C	A	235	124.660	74.558	-24.906	1.00	64.25	A16S
ATOM	4829	O2P	C	A	235	124.452	74.475	-22.325	1.00	64.25	A16S
ATOM	4830	O5*	C	A	235	123.286	76.273	-23.672	1.00	66.95	A16S
ATOM	4831	C5*	C	A	235	122.645	76.806	-24.849	1.00	66.95	A16S
ATOM	4832	C4*	C	A	235	122.066	78.173	-24.589	1.00	66.95	A16S
ATOM	4833	O4*	C	A	235	121.080	78.088	-23.543	1.00	66.95	A16S
ATOM	4834	C1*	C	A	235	121.025	79.316	-22.847	1.00	66.95	A16S
ATOM	4835	N1	C	A	235	121.381	79.085	-21.447	1.00	64.25	A16S
ATOM	4836	C6	C	A	235	121.993	77.930	-21.048	1.00	64.25	A16S
ATOM	4837	C2	C	A	235	121.088	80.080	-20.527	1.00	64.25	A16S
ATOM	4838	O2	C	A	235	120.541	81.126	-20.930	1.00	64.25	A16S
ATOM	4839	N3	C	A	235	121.409	79.895	-19.231	1.00	64.25	A16S
ATOM	4840	C4	C	A	235	122.015	78.771	-18.849	1.00	64.25	A16S
ATOM	4841	N4	C	A	235	122.340	78.644	-17.561	1.00	64.25	A16S
ATOM	4842	C5	C	A	235	122.325	77.734	-19.770	1.00	64.25	A16S
ATOM	4843	C2*	C	A	235	122.037	80.261	-23.479	1.00	66.95	A16S
ATOM	4844	O2*	C	A	235	121.375	81.112	-24.396	1.00	66.95	A16S



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ATOM	4845	C3*	C	A	235	122.999	79.275	-24.121	1.00	66.95	A16S
ATOM	4846	O3*	C	A	235	123.696	79.883	-25.188	1.00	66.95	A16S
ATOM	4847	P	G	A	236	125.067	80.673	-24.895	1.00	61.11	A16S
ATOM	4848	O1P	G	A	236	125.735	80.784	-26.232	1.00	62.89	A16S
ATOM	4849	O2P	G	A	236	125.791	80.014	-23.768	1.00	62.89	A16S
ATOM	4850	O5*	G	A	236	124.579	82.112	-24.406	1.00	61.11	A16S
ATOM	4851	C5*	G	A	236	124.042	83.058	-25.334	1.00	61.11	A16S
ATOM	4852	C4*	G	A	236	123.932	84.415	-24.689	1.00	61.11	A16S
ATOM	4853	O4*	G	A	236	122.953	84.377	-23.624	1.00	61.11	A16S
ATOM	4854	C1*	G	A	236	123.371	85.209	-22.554	1.00	61.11	A16S
ATOM	4855	N9	G	A	236	123.633	84.352	-21.406	1.00	62.89	A16S
ATOM	4856	C4	G	A	236	123.788	84.735	-20.093	1.00	62.89	A16S
ATOM	4857	N3	G	A	236	123.687	85.989	-19.609	1.00	62.89	A16S
ATOM	4858	C2	G	A	236	123.893	86.031	-18.299	1.00	62.89	A16S
ATOM	4859	N2	G	A	236	123.797	87.195	-17.640	1.00	62.89	A16S
ATOM	4860	N1	G	A	236	124.196	84.938	-17.536	1.00	62.89	A16S
ATOM	4861	C6	G	A	236	124.314	83.640	-18.013	1.00	62.89	A16S
ATOM	4862	O6	G	A	236	124.603	82.710	-17.232	1.00	62.89	A16S
ATOM	4863	C5	G	A	236	124.074	83.575	-19.409	1.00	62.89	A16S
ATOM	4864	N7	G	A	236	124.077	82.485	-20.267	1.00	62.89	A16S
ATOM	4865	C8	G	A	236	123.808	82.991	-21.435	1.00	62.89	A16S
ATOM	4866	C2*	G	A	236	124.649	85.913	-23.004	1.00	61.11	A16S
ATOM	4867	O2*	G	A	236	124.303	87.153	-23.586	1.00	61.11	A16S
ATOM	4868	C3*	G	A	236	125.194	84.933	-24.030	1.00	61.11	A16S
ATOM	4869	O3*	G	A	236	126.029	85.575	-24.971	1.00	61.11	A16S
ATOM	4870	P	C	A	237	127.620	85.387	-24.873	1.00	69.09	A16S
ATOM	4871	O1P	C	A	237	128.185	86.032	-26.110	1.00	65.30	A16S
ATOM	4872	O2P	C	A	237	127.920	83.955	-24.589	1.00	65.30	A16S
ATOM	4873	O5*	C	A	237	128.022	86.194	-23.559	1.00	69.09	A16S
ATOM	4874	C5*	C	A	237	127.853	87.608	-23.494	1.00	69.09	A16S
ATOM	4875	C4*	C	A	237	128.006	88.089	-22.077	1.00	69.09	A16S
ATOM	4876	O4*	C	A	237	126.949	87.528	-21.263	1.00	69.09	A16S
ATOM	4877	C1*	C	A	237	127.435	87.271	-19.956	1.00	69.09	A16S
ATOM	4878	N1	C	A	237	127.398	85.813	-19.711	1.00	65.30	A16S
ATOM	4879	C6	C	A	237	127.398	84.921	-20.749	1.00	65.30	A16S
ATOM	4880	C2	C	A	237	127.402	85.354	-18.397	1.00	65.30	A16S
ATOM	4881	O2	C	A	237	127.363	86.178	-17.486	1.00	65.30	A16S
ATOM	4882	N3	C	A	237	127.458	84.026	-18.156	1.00	65.30	A16S
ATOM	4883	C4	C	A	237	127.509	83.167	-19.173	1.00	65.30	A16S
ATOM	4884	N4	C	A	237	127.627	81.867	-18.896	1.00	65.30	A16S
ATOM	4885	C5	C	A	237	127.458	83.602	-20.525	1.00	65.30	A16S
ATOM	4886	C2*	C	A	237	128.869	87.792	-19.902	1.00	69.09	A16S
ATOM	4887	O2*	C	A	237	128.821	89.128	-19.459	1.00	69.09	A16S
ATOM	4888	C3*	C	A	237	129.279	87.685	-21.361	1.00	69.09	A16S
ATOM	4889	O3*	C	A	237	130.358	88.530	-21.693	1.00	69.09	A16S
ATOM	4890	P	G	A	238	131.842	87.920	-21.747	1.00	60.98	A16S
ATOM	4891	O1P	G	A	238	132.744	88.967	-22.306	1.00	59.01	A16S
ATOM	4892	O2P	G	A	238	131.765	86.594	-22.403	1.00	59.01	A16S
ATOM	4893	O5*	G	A	238	132.214	87.729	-20.214	1.00	60.98	A16S
ATOM	4894	C5*	G	A	238	132.347	88.885	-19.392	1.00	60.98	A16S
ATOM	4895	C4*	G	A	238	132.665	88.505	-17.979	1.00	60.98	A16S
ATOM	4896	O4*	G	A	238	131.535	87.809	-17.405	1.00	60.98	A16S
ATOM	4897	C1*	G	A	238	131.991	86.882	-16.433	1.00	60.98	A16S
ATOM	4898	N9	G	A	238	131.518	85.548	-16.807	1.00	59.01	A16S
ATOM	4899	C4	G	A	238	131.424	84.455	-15.975	1.00	59.01	A16S
ATOM	4900	N3	G	A	238	131.740	84.425	-14.659	1.00	59.01	A16S
ATOM	4901	C2	G	A	238	131.544	83.223	-14.131	1.00	59.01	A16S
ATOM	4902	N2	G	A	238	131.809	83.010	-12.829	1.00	59.01	A16S
ATOM	4903	N1	G	A	238	131.076	82.145	-14.838	1.00	59.01	A16S
ATOM	4904	C6	G	A	238	130.747	82.157	-16.189	1.00	59.01	A16S
ATOM	4905	O6	G	A	238	130.341	81.134	-16.728	1.00	59.01	A16S
ATOM	4906	C5	G	A	238	130.947	83.431	-16.769	1.00	59.01	A16S
ATOM	4907	N7	G	A	238	130.738	83.868	-18.071	1.00	59.01	A16S
ATOM	4908	C8	G	A	238	131.087	85.128	-18.048	1.00	59.01	A16S
ATOM	4909	C2*	G	A	238	133.520	86.990	-16.383	1.00	60.98	A16S
ATOM	4910	O2*	G	A	238	133.924	87.876	-15.351	1.00	60.98	A16S
ATOM	4911	C3*	G	A	238	133.832	87.564	-17.760	1.00	60.98	A16S
ATOM	4912	O3*	G	A	238	135.099	88.208	-17.800	1.00	60.98	A16S
ATOM	4913	P	U	A	239	136.360	87.407	-18.385	1.00	72.70	A16S
ATOM	4914	O1P	U	A	239	137.527	88.317	-18.346	1.00	78.69	A16S
ATOM	4915	O2P	U	A	239	135.970	86.760	-19.670	1.00	78.69	A16S
ATOM	4916	O5*	U	A	239	136.615	86.273	-17.297	1.00	72.70	A16S
ATOM	4917	C5*	U	A	239	137.067	86.624	-15.980	1.00	72.70	A16S
ATOM	4918	C4*	U	A	239	137.215	85.389	-15.133	1.00	72.70	A16S
ATOM	4919	O4*	U	A	239	135.911	84.790	-14.937	1.00	72.70	A16S
ATOM	4920	C1*	U	A	239	136.046	83.384	-14.835	1.00	72.70	A16S
ATOM	4921	N1	U	A	239	135.243	82.743	-15.890	1.00	78.69	A16S



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ATOM	4922	C6	U	A	239	135.151	83.279	-17.149	1.00	78.69	A16S
ATOM	4923	C2	U	A	239	134.597	81.558	-15.577	1.00	78.69	A16S
ATOM	4924	O2	U	A	239	134.617	81.067	-14.461	1.00	78.69	A16S
ATOM	4925	N3	U	A	239	133.924	80.967	-16.618	1.00	78.69	A16S
ATOM	4926	C4	U	A	239	133.821	81.430	-17.911	1.00	78.69	A16S
ATOM	4927	O4	U	A	239	133.299	80.713	-18.778	1.00	78.69	A16S
ATOM	4928	C5	U	A	239	134.480	82.682	-18.141	1.00	78.69	A16S
ATOM	4929	C2*	U	A	239	137.536	83.051	-14.952	1.00	72.70	A16S
ATOM	4930	O2*	U	A	239	138.094	82.960	-13.654	1.00	72.70	A16S
ATOM	4931	C3*	U	A	239	138.072	84.264	-15.698	1.00	72.70	A16S
ATOM	4932	O3*	U	A	239	139.456	84.441	-15.417	1.00	72.70	A16S
ATOM	4933	P	C	A	240	140.497	84.673	-16.626	1.00	78.32	A16S
ATOM	4934	O1P	C	A	240	140.445	86.137	-16.938	1.00	60.68	A16S
ATOM	4935	O2P	C	A	240	140.286	83.678	-17.724	1.00	60.68	A16S
ATOM	4936	O5*	C	A	240	141.911	84.353	-15.973	1.00	78.32	A16S
ATOM	4937	C5*	C	A	240	142.420	85.151	-14.900	1.00	78.32	A16S
ATOM	4938	C4*	C	A	240	143.802	84.690	-14.526	1.00	78.32	A16S
ATOM	4939	O4*	C	A	240	143.717	83.360	-13.952	1.00	78.32	A16S
ATOM	4940	C1*	C	A	240	144.841	82.598	-14.350	1.00	78.32	A16S
ATOM	4941	N1	C	A	240	144.385	81.497	-15.222	1.00	60.68	A16S
ATOM	4942	C6	C	A	240	143.288	81.636	-16.025	1.00	60.68	A16S
ATOM	4943	C2	C	A	240	145.100	80.313	-15.223	1.00	60.68	A16S
ATOM	4944	O2	C	A	240	146.111	80.234	-14.513	1.00	60.68	A16S
ATOM	4945	N3	C	A	240	144.688	79.288	-16.004	1.00	60.68	A16S
ATOM	4946	C4	C	A	240	143.615	79.431	-16.775	1.00	60.68	A16S
ATOM	4947	N4	C	A	240	143.232	78.398	-17.519	1.00	60.68	A16S
ATOM	4948	C5	C	A	240	142.878	80.639	-16.813	1.00	60.68	A16S
ATOM	4949	C2*	C	A	240	145.768	83.535	-15.117	1.00	78.32	A16S
ATOM	4950	O2*	C	A	240	146.636	84.163	-14.205	1.00	78.32	A16S
ATOM	4951	C3*	C	A	240	144.780	84.537	-15.678	1.00	78.32	A16S
ATOM	4952	O3*	C	A	240	145.421	85.742	-16.044	1.00	78.32	A16S
ATOM	4953	P	C	A	241	146.163	85.837	-17.471	1.00	73.66	A16S
ATOM	4954	O1P	C	A	241	146.614	87.249	-17.599	1.00	68.05	A16S
ATOM	4955	O2P	C	A	241	145.311	85.233	-18.535	1.00	68.05	A16S
ATOM	4956	O5*	C	A	241	147.438	84.892	-17.310	1.00	73.66	A16S
ATOM	4957	C5*	C	A	241	148.546	85.271	-16.456	1.00	73.66	A16S
ATOM	4958	C4*	C	A	241	149.717	84.340	-16.671	1.00	73.66	A16S
ATOM	4959	O4*	C	A	241	149.362	83.006	-16.214	1.00	73.66	A16S
ATOM	4960	C1*	C	A	241	149.864	82.038	-17.120	1.00	73.66	A16S
ATOM	4961	N1	C	A	241	148.714	81.361	-17.764	1.00	68.05	A16S
ATOM	4962	C6	C	A	241	147.481	81.951	-17.790	1.00	68.05	A16S
ATOM	4963	C2	C	A	241	148.905	80.097	-18.364	1.00	68.05	A16S
ATOM	4964	O2	C	A	241	150.033	79.575	-18.338	1.00	68.05	A16S
ATOM	4965	N3	C	A	241	147.854	79.482	-18.957	1.00	68.05	A16S
ATOM	4966	C4	C	A	241	146.659	80.068	-18.967	1.00	68.05	A16S
ATOM	4967	N4	C	A	241	145.652	79.422	-19.550	1.00	68.05	A16S
ATOM	4968	C5	C	A	241	146.439	81.348	-18.374	1.00	68.05	A16S
ATOM	4969	C2*	C	A	241	150.734	82.777	-18.138	1.00	73.66	A16S
ATOM	4970	O2*	C	A	241	152.071	82.781	-17.695	1.00	73.66	A16S
ATOM	4971	C3*	C	A	241	150.110	84.161	-18.125	1.00	73.66	A16S
ATOM	4972	O3*	C	A	241	150.996	85.166	-18.586	1.00	73.66	A16S
ATOM	4973	P	C	A	242	151.073	85.476	-20.160	1.00	76.03	A16S
ATOM	4974	O1P	C	A	242	151.967	86.628	-20.414	1.00	70.86	A16S
ATOM	4975	O2P	C	A	242	149.687	85.504	-20.674	1.00	70.86	A16S
ATOM	4976	O5*	C	A	242	151.798	84.196	-20.753	1.00	76.03	A16S
ATOM	4977	C5*	C	A	242	153.165	83.935	-20.439	1.00	76.03	A16S
ATOM	4978	C4*	C	A	242	153.665	82.790	-21.264	1.00	76.03	A16S
ATOM	4979	O4*	C	A	242	153.020	81.564	-20.838	1.00	76.03	A16S
ATOM	4980	C1*	C	A	242	152.777	80.737	-21.963	1.00	76.03	A16S
ATOM	4981	N1	C	A	242	151.326	80.517	-22.072	1.00	70.86	A16S
ATOM	4982	C6	C	A	242	150.443	81.442	-21.602	1.00	70.86	A16S
ATOM	4983	C2	C	A	242	150.865	79.349	-22.681	1.00	70.86	A16S
ATOM	4984	O2	C	A	242	151.688	78.516	-23.085	1.00	70.86	A16S
ATOM	4985	N3	C	A	242	149.540	79.154	-22.815	1.00	70.86	A16S
ATOM	4986	C4	C	A	242	148.687	80.069	-22.364	1.00	70.86	A16S
ATOM	4987	N4	C	A	242	147.385	79.844	-22.527	1.00	70.86	A16S
ATOM	4988	C5	C	A	242	149.129	81.259	-21.726	1.00	70.86	A16S
ATOM	4989	C2*	C	A	242	153.335	81.452	-23.197	1.00	76.03	A16S
ATOM	4990	O2*	C	A	242	154.646	81.006	-23.488	1.00	76.03	A16S
ATOM	4991	C3*	C	A	242	153.322	82.899	-22.735	1.00	76.03	A16S
ATOM	4992	O3*	C	A	242	154.251	83.687	-23.438	1.00	76.03	A16S
ATOM	4993	P	A	A	243	153.763	84.476	-24.740	1.00	73.16	A16S
ATOM	4994	O1P	A	A	243	154.972	85.105	-25.348	1.00	72.12	A16S
ATOM	4995	O2P	A	A	243	152.590	85.318	-24.368	1.00	72.12	A16S
ATOM	4996	O5*	A	A	243	153.247	83.318	-25.697	1.00	73.16	A16S
ATOM	4997	C5*	A	A	243	154.170	82.392	-26.263	1.00	73.16	A16S
ATOM	4998	C4*	A	A	243	153.875	82.226	-27.718	1.00	73.16	A16S



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ATOM	4999	O4*	A	A	243	152.507	81.806	-27.806	1.00	73.16	A16S
ATOM	5000	C1*	A	A	243	152.015	82.153	-29.066	1.00	73.16	A16S
ATOM	5001	N9	A	A	243	150.560	82.182	-28.998	1.00	72.12	A16S
ATOM	5002	C4	A	A	243	149.783	81.134	-29.422	1.00	72.12	A16S
ATOM	5003	N3	A	A	243	150.204	79.979	-29.963	1.00	72.12	A16S
ATOM	5004	C2	A	A	243	149.176	79.199	-30.259	1.00	72.12	A16S
ATOM	5005	N1	A	A	243	147.875	79.421	-30.090	1.00	72.12	A16S
ATOM	5006	C6	A	A	243	147.489	80.586	-29.540	1.00	72.12	A16S
ATOM	5007	N6	A	A	243	146.196	80.799	-29.370	1.00	72.12	A16S
ATOM	5008	C5	A	A	243	148.482	81.504	-29.180	1.00	72.12	A16S
ATOM	5009	N7	A	A	243	148.432	82.768	-28.608	1.00	72.12	A16S
ATOM	5010	C8	A	A	243	149.693	83.129	-28.529	1.00	72.12	A16S
ATOM	5011	C2*	A	A	243	152.801	83.351	-29.597	1.00	73.16	A16S
ATOM	5012	O2*	A	A	243	153.163	83.020	-30.921	1.00	73.16	A16S
ATOM	5013	C3*	A	A	243	153.910	83.508	-28.530	1.00	73.16	A16S
ATOM	5014	O3*	A	A	243	155.270	83.941	-28.842	1.00	73.16	A16S
ATOM	5015	P	U	A	244	156.191	83.202	-29.971	1.00	72.37	A16S
ATOM	5016	O1P	U	A	244	157.515	83.875	-29.827	1.00	77.86	A16S
ATOM	5017	O2P	U	A	244	155.566	83.107	-31.317	1.00	77.86	A16S
ATOM	5018	O5*	U	A	244	156.411	81.722	-29.446	1.00	72.37	A16S
ATOM	5019	C5*	U	A	244	156.766	81.516	-28.095	1.00	72.37	A16S
ATOM	5020	C4*	U	A	244	157.322	80.148	-27.896	1.00	72.37	A16S
ATOM	5021	O4*	U	A	244	158.646	80.089	-28.486	1.00	72.37	A16S
ATOM	5022	C1*	U	A	244	159.598	79.777	-27.489	1.00	72.37	A16S
ATOM	5023	N1	U	A	244	160.826	80.547	-27.736	1.00	77.86	A16S
ATOM	5024	C6	U	A	244	160.780	81.807	-28.279	1.00	77.86	A16S
ATOM	5025	C2	U	A	244	162.042	79.968	-27.383	1.00	77.86	A16S
ATOM	5026	O2	U	A	244	162.141	78.847	-26.904	1.00	77.86	A16S
ATOM	5027	N3	U	A	244	163.142	80.756	-27.603	1.00	77.86	A16S
ATOM	5028	C4	U	A	244	163.158	82.035	-28.118	1.00	77.86	A16S
ATOM	5029	O4	U	A	244	164.218	82.665	-28.137	1.00	77.86	A16S
ATOM	5030	C5	U	A	244	161.873	82.551	-28.475	1.00	77.86	A16S
ATOM	5031	C2*	U	A	244	158.956	80.138	-26.150	1.00	72.37	A16S
ATOM	5032	O2*	U	A	244	159.495	79.373	-25.086	1.00	72.37	A16S
ATOM	5033	C3*	U	A	244	157.483	79.850	-26.414	1.00	72.37	A16S
ATOM	5034	O3*	U	A	244	157.132	78.501	-26.148	1.00	72.37	A16S
ATOM	5035	P	C	A	245	155.597	78.129	-25.839	1.00	63.81	A16S
ATOM	5036	O1P	C	A	245	154.992	79.269	-25.093	1.00	72.31	A16S
ATOM	5037	O2P	C	A	245	155.585	76.758	-25.228	1.00	72.31	A16S
ATOM	5038	O5*	C	A	245	154.922	78.064	-27.289	1.00	63.81	A16S
ATOM	5039	C5*	C	A	245	155.285	77.030	-28.215	1.00	63.81	A16S
ATOM	5040	C4*	C	A	245	154.060	76.273	-28.673	1.00	63.81	A16S
ATOM	5041	O4*	C	A	245	153.106	76.171	-27.583	1.00	63.81	A16S
ATOM	5042	C1*	C	A	245	151.788	76.148	-28.106	1.00	63.81	A16S
ATOM	5043	N1	C	A	245	151.014	77.275	-27.546	1.00	72.31	A16S
ATOM	5044	C6	C	A	245	151.623	78.270	-26.828	1.00	72.31	A16S
ATOM	5045	C2	C	A	245	149.624	77.328	-27.788	1.00	72.31	A16S
ATOM	5046	O2	C	A	245	149.087	76.410	-28.419	1.00	72.31	A16S
ATOM	5047	N3	C	A	245	148.911	78.383	-27.333	1.00	72.31	A16S
ATOM	5048	C4	C	A	245	149.522	79.365	-26.665	1.00	72.31	A16S
ATOM	5049	N4	C	A	245	148.784	80.407	-26.277	1.00	72.31	A16S
ATOM	5050	C5	C	A	245	150.922	79.327	-26.376	1.00	72.31	A16S
ATOM	5051	C2*	C	A	245	151.892	76.249	-29.628	1.00	63.81	A16S
ATOM	5052	O2*	C	A	245	151.849	74.962	-30.210	1.00	63.81	A16S
ATOM	5053	C3*	C	A	245	153.256	76.891	-29.804	1.00	63.81	A16S
ATOM	5054	O3*	C	A	245	153.789	76.542	-31.068	1.00	63.81	A16S
ATOM	5055	P	A	A	246	153.635	77.558	-32.297	1.00	69.74	A16S
ATOM	5056	O1P	A	A	246	154.507	77.026	-33.370	1.00	65.30	A16S
ATOM	5057	O2P	A	A	246	153.819	78.937	-31.822	1.00	65.30	A16S
ATOM	5058	O5*	A	A	246	152.110	77.475	-32.735	1.00	69.74	A16S
ATOM	5059	C5*	A	A	246	151.533	76.244	-33.155	1.00	69.74	A16S
ATOM	5060	C4*	A	A	246	150.540	76.491	-34.261	1.00	69.74	A16S
ATOM	5061	O4*	A	A	246	149.364	77.196	-33.765	1.00	69.74	A16S
ATOM	5062	C1*	A	A	246	149.047	78.232	-34.664	1.00	69.74	A16S
ATOM	5063	N9	A	A	246	148.267	79.266	-33.987	1.00	65.30	A16S
ATOM	5064	C4	A	A	246	146.898	79.330	-33.996	1.00	65.30	A16S
ATOM	5065	N3	A	A	246	146.051	78.470	-34.584	1.00	65.30	A16S
ATOM	5066	C2	A	A	246	144.790	78.862	-34.415	1.00	65.30	A16S
ATOM	5067	N1	A	A	246	144.317	79.931	-33.765	1.00	65.30	A16S
ATOM	5068	C6	A	A	246	145.195	80.770	-33.173	1.00	65.30	A16S
ATOM	5069	N6	A	A	246	144.715	81.831	-32.515	1.00	65.30	A16S
ATOM	5070	C5	A	A	246	146.567	80.468	-33.289	1.00	65.30	A16S
ATOM	5071	N7	A	A	246	147.708	81.104	-32.825	1.00	65.30	A16S
ATOM	5072	C8	A	A	246	148.687	80.350	-33.261	1.00	65.30	A16S
ATOM	5073	C2*	A	A	246	150.381	78.652	-35.274	1.00	69.74	A16S
ATOM	5074	O2*	A	A	246	150.136	79.331	-36.495	1.00	69.74	A16S
ATOM	5075	C3*	A	A	246	151.044	77.288	-35.460	1.00	69.74	A16S



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ATOM	5076	O3*	A	A 246	150.442	76.710	-36.600	1.00	69.74	A16S
ATOM	5077	P	G	A 247	151.346	76.144	-37.787	1.00	69.66	A16S
ATOM	5078	O1P	G	A 247	151.990	74.901	-37.264	1.00	72.22	A16S
ATOM	5079	O2P	G	A 247	152.187	77.260	-38.306	1.00	72.22	A16S
ATOM	5080	O5*	G	A 247	150.262	75.760	-38.896	1.00	69.66	A16S
ATOM	5081	C5*	G	A 247	149.378	74.621	-38.720	1.00	69.66	A16S
ATOM	5082	C4*	G	A 247	148.569	74.760	-37.441	1.00	69.66	A16S
ATOM	5083	O4*	G	A 247	147.815	76.006	-37.458	1.00	69.66	A16S
ATOM	5084	C1*	G	A 247	146.565	75.810	-36.822	1.00	69.66	A16S
ATOM	5085	N9	G	A 247	145.509	75.904	-37.830	1.00	72.22	A16S
ATOM	5086	C4	G	A 247	144.155	75.896	-37.585	1.00	72.22	A16S
ATOM	5087	N3	G	A 247	143.575	75.838	-36.372	1.00	72.22	A16S
ATOM	5088	C2	G	A 247	142.265	75.818	-36.453	1.00	72.22	A16S
ATOM	5089	N2	G	A 247	141.544	75.760	-35.332	1.00	72.22	A16S
ATOM	5090	N1	G	A 247	141.570	75.856	-37.634	1.00	72.22	A16S
ATOM	5091	C6	G	A 247	142.144	75.926	-38.897	1.00	72.22	A16S
ATOM	5092	O6	G	A 247	141.426	75.975	-39.900	1.00	72.22	A16S
ATOM	5093	C5	G	A 247	143.556	75.941	-38.824	1.00	72.22	A16S
ATOM	5094	N7	G	A 247	144.510	75.995	-39.833	1.00	72.22	A16S
ATOM	5095	C8	G	A 247	145.652	75.979	-39.197	1.00	72.22	A16S
ATOM	5096	C2*	G	A 247	146.575	74.402	-36.232	1.00	69.66	A16S
ATOM	5097	O2*	G	A 247	147.086	74.443	-34.917	1.00	69.66	A16S
ATOM	5098	C3*	G	A 247	147.516	73.689	-37.184	1.00	69.66	A16S
ATOM	5099	O3*	G	A 247	148.043	72.492	-36.619	1.00	69.66	A16S
ATOM	5100	P	C	A 248	147.293	71.085	-36.886	1.00	80.20	A16S
ATOM	5101	O1P	C	A 248	148.143	70.019	-36.294	1.00	71.22	A16S
ATOM	5102	O2P	C	A 248	146.870	70.988	-38.313	1.00	71.22	A16S
ATOM	5103	O5*	C	A 248	145.989	71.164	-35.985	1.00	80.20	A16S
ATOM	5104	C5*	C	A 248	146.114	71.168	-34.564	1.00	80.20	A16S
ATOM	5105	C4*	C	A 248	144.766	71.035	-33.911	1.00	80.20	A16S
ATOM	5106	O4*	C	A 248	143.977	72.229	-34.156	1.00	80.20	A16S
ATOM	5107	C1*	C	A 248	142.606	71.879	-34.220	1.00	80.20	A16S
ATOM	5108	N1	C	A 248	142.099	72.162	-35.572	1.00	71.22	A16S
ATOM	5109	C6	C	A 248	142.941	72.323	-36.633	1.00	71.22	A16S
ATOM	5110	C2	C	A 248	140.721	72.236	-35.755	1.00	71.22	A16S
ATOM	5111	O2	C	A 248	139.978	72.121	-34.764	1.00	71.22	A16S
ATOM	5112	N3	C	A 248	140.228	72.435	-36.994	1.00	71.22	A16S
ATOM	5113	C4	C	A 248	141.056	72.582	-38.020	1.00	71.22	A16S
ATOM	5114	N4	C	A 248	140.522	72.784	-39.217	1.00	71.22	A16S
ATOM	5115	C5	C	A 248	142.466	72.532	-37.862	1.00	71.22	A16S
ATOM	5116	C2*	C	A 248	142.507	70.382	-33.941	1.00	80.20	A16S
ATOM	5117	O2*	C	A 248	142.324	70.143	-32.556	1.00	80.20	A16S
ATOM	5118	C3*	C	A 248	143.872	69.907	-34.395	1.00	80.20	A16S
ATOM	5119	O3*	C	A 248	144.175	68.635	-33.853	1.00	80.20	A16S
ATOM	5120	P	U	A 249	143.755	67.322	-34.676	1.00	72.98	A16S
ATOM	5121	O1P	U	A 249	144.029	66.156	-33.792	1.00	78.86	A16S
ATOM	5122	O2P	U	A 249	144.363	67.380	-36.037	1.00	78.86	A16S
ATOM	5123	O5*	U	A 249	142.179	67.487	-34.845	1.00	72.98	A16S
ATOM	5124	C5*	U	A 249	141.315	67.490	-33.693	1.00	72.98	A16S
ATOM	5125	C4*	U	A 249	139.863	67.456	-34.111	1.00	72.98	A16S
ATOM	5126	O4*	U	A 249	139.527	68.675	-34.816	1.00	72.98	A16S
ATOM	5127	C1*	U	A 249	138.527	68.406	-35.775	1.00	72.98	A16S
ATOM	5128	N1	U	A 249	139.004	68.807	-37.107	1.00	78.86	A16S
ATOM	5129	C6	U	A 249	140.341	68.876	-37.414	1.00	78.86	A16S
ATOM	5130	C2	U	A 249	138.045	69.100	-38.060	1.00	78.86	A16S
ATOM	5131	O2	U	A 249	136.847	69.070	-37.833	1.00	78.86	A16S
ATOM	5132	N3	U	A 249	138.534	69.425	-39.294	1.00	78.86	A16S
ATOM	5133	C4	U	A 249	139.847	69.490	-39.671	1.00	78.86	A16S
ATOM	5134	O4	U	A 249	140.116	69.696	-40.854	1.00	78.86	A16S
ATOM	5135	C5	U	A 249	140.783	69.201	-38.630	1.00	78.86	A16S
ATOM	5136	C2*	U	A 249	138.184	66.920	-35.690	1.00	72.98	A16S
ATOM	5137	O2*	U	A 249	137.037	66.782	-34.875	1.00	72.98	A16S
ATOM	5138	C3*	U	A 249	139.442	66.342	-35.055	1.00	72.98	A16S
ATOM	5139	O3*	U	A 249	139.197	65.119	-34.356	1.00	72.98	A16S
ATOM	5140	P	A	A 250	139.593	63.714	-35.040	1.00	88.25	A16S
ATOM	5141	O1P	A	A 250	139.809	62.731	-33.944	1.00	124.49	A16S
ATOM	5142	O2P	A	A 250	140.665	63.941	-36.041	1.00	124.49	A16S
ATOM	5143	O5*	A	A 250	138.287	63.310	-35.852	1.00	88.25	A16S
ATOM	5144	C5*	A	A 250	137.107	62.844	-35.173	1.00	88.25	A16S
ATOM	5145	C4*	A	A 250	136.239	62.053	-36.123	1.00	88.25	A16S
ATOM	5146	O4*	A	A 250	135.657	62.936	-37.104	1.00	88.25	A16S
ATOM	5147	C1*	A	A 250	135.628	62.308	-38.369	1.00	88.25	A16S
ATOM	5148	N9	A	A 250	136.261	63.233	-39.300	1.00	124.49	A16S
ATOM	5149	C4	A	A 250	135.767	63.626	-40.519	1.00	124.49	A16S
ATOM	5150	N3	A	A 250	134.667	63.162	-41.143	1.00	124.49	A16S
ATOM	5151	C2	A	A 250	134.465	63.819	-42.285	1.00	124.49	A16S
ATOM	5152	N1	A	A 250	135.180	64.820	-42.833	1.00	124.49	A16S



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ATOM	5153	C6	A	A	250	136.282	65.265	-42.180	1.00124.49	A16S
ATOM	5154	N6	A	A	250	136.990	66.270	-42.717	1.00124.49	A16S
ATOM	5155	C5	A	A	250	136.612	64.638	-40.959	1.00124.49	A16S
ATOM	5156	N7	A	A	250	137.653	64.833	-40.058	1.00124.49	A16S
ATOM	5157	C8	A	A	250	137.410	63.964	-39.105	1.00124.49	A16S
ATOM	5158	C2*	A	A	250	136.188	60.888	-38.237	1.00 88.25	A16S
ATOM	5159	O2*	A	A	250	135.107	59.972	-38.266	1.00 88.25	A16S
ATOM	5160	C3*	A	A	250	136.967	60.983	-36.919	1.00 88.25	A16S
ATOM	5161	O3*	A	A	250	137.167	59.798	-36.115	1.00 88.25	A16S
ATOM	5162	P	G	A	251	135.910	58.981	-35.477	1.00106.22	A16S
ATOM	5163	O1P	G	A	251	136.457	58.281	-34.262	1.00 84.11	A16S
ATOM	5164	O2P	G	A	251	135.259	58.181	-36.569	1.00 84.11	A16S
ATOM	5165	O5*	G	A	251	134.871	60.071	-34.920	1.00106.22	A16S
ATOM	5166	C5*	G	A	251	134.030	59.768	-33.769	1.00106.22	A16S
ATOM	5167	C4*	G	A	251	133.101	60.923	-33.441	1.00106.22	A16S
ATOM	5168	O4*	G	A	251	132.168	61.146	-34.524	1.00106.22	A16S
ATOM	5169	C1*	G	A	251	130.837	61.065	-34.046	1.00106.22	A16S
ATOM	5170	N9	G	A	251	130.024	60.503	-35.121	1.00 84.11	A16S
ATOM	5171	C4	G	A	251	129.119	61.200	-35.899	1.00 84.11	A16S
ATOM	5172	N3	G	A	251	128.738	62.485	-35.721	1.00 84.11	A16S
ATOM	5173	C2	G	A	251	127.934	62.905	-36.688	1.00 84.11	A16S
ATOM	5174	N2	G	A	251	127.461	64.161	-36.668	1.00 84.11	A16S
ATOM	5175	N1	G	A	251	127.536	62.134	-37.745	1.00 84.11	A16S
ATOM	5176	C6	G	A	251	127.907	60.813	-37.957	1.00 84.11	A16S
ATOM	5177	O6	G	A	251	127.511	60.220	-38.971	1.00 84.11	A16S
ATOM	5178	C5	G	A	251	128.762	60.331	-36.909	1.00 84.11	A16S
ATOM	5179	N7	G	A	251	129.350	59.080	-36.717	1.00 84.11	A16S
ATOM	5180	C8	G	A	251	130.072	59.224	-35.634	1.00 84.11	A16S
ATOM	5181	C2*	G	A	251	130.897	60.275	-32.744	1.00106.22	A16S
ATOM	5182	O2*	G	A	251	129.812	60.612	-31.898	1.00106.22	A16S
ATOM	5183	C3*	G	A	251	132.249	60.716	-32.187	1.00106.22	A16S
ATOM	5184	O3*	G	A	251	132.072	61.953	-31.493	1.00106.22	A16S
ATOM	5185	P	U	A	252	133.340	62.904	-31.196	1.00 79.53	A16S
ATOM	5186	O1P	U	A	252	134.576	62.070	-31.287	1.00 75.91	A16S
ATOM	5187	O2P	U	A	252	133.078	63.682	-29.945	1.00 75.91	A16S
ATOM	5188	O5*	U	A	252	133.326	63.910	-32.443	1.00 79.53	A16S
ATOM	5189	C5*	U	A	252	134.317	64.929	-32.547	1.00 79.53	A16S
ATOM	5190	C4*	U	A	252	134.245	65.646	-33.873	1.00 79.53	A16S
ATOM	5191	O4*	U	A	252	134.511	64.763	-34.983	1.00 79.53	A16S
ATOM	5192	C1*	U	A	252	134.111	65.412	-36.174	1.00 79.53	A16S
ATOM	5193	N1	U	A	252	133.434	64.461	-37.069	1.00 75.91	A16S
ATOM	5194	C6	U	A	252	132.960	63.250	-36.623	1.00 75.91	A16S
ATOM	5195	C2	U	A	252	133.277	64.838	-38.398	1.00 75.91	A16S
ATOM	5196	O2	U	A	252	133.685	65.901	-38.844	1.00 75.91	A16S
ATOM	5197	N3	U	A	252	132.622	63.926	-39.186	1.00 75.91	A16S
ATOM	5198	C4	U	A	252	132.116	62.704	-38.801	1.00 75.91	A16S
ATOM	5199	O4	U	A	252	131.481	62.028	-39.614	1.00 75.91	A16S
ATOM	5200	C5	U	A	252	132.328	62.381	-37.424	1.00 75.91	A16S
ATOM	5201	C2*	U	A	252	133.224	66.592	-35.776	1.00 79.53	A16S
ATOM	5202	O2*	U	A	252	133.967	67.775	-35.988	1.00 79.53	A16S
ATOM	5203	C3*	U	A	252	132.956	66.314	-34.297	1.00 79.53	A16S
ATOM	5204	O3*	U	A	252	132.783	67.538	-33.614	1.00 79.53	A16S
ATOM	5205	P	U	A	253	131.348	67.915	-33.004	1.00 68.66	A16S
ATOM	5206	O1P	U	A	253	131.631	68.976	-31.982	1.00 69.97	A16S
ATOM	5207	O2P	U	A	253	130.654	66.657	-32.593	1.00 69.97	A16S
ATOM	5208	O5*	U	A	253	130.569	68.578	-34.226	1.00 68.66	A16S
ATOM	5209	C5*	U	A	253	130.625	70.003	-34.417	1.00 68.66	A16S
ATOM	5210	C4*	U	A	253	129.829	70.422	-35.624	1.00 68.66	A16S
ATOM	5211	O4*	U	A	253	130.522	70.046	-36.838	1.00 68.66	A16S
ATOM	5212	C1*	U	A	253	129.581	69.733	-37.844	1.00 68.66	A16S
ATOM	5213	N1	U	A	253	129.665	68.301	-38.136	1.00 69.97	A16S
ATOM	5214	C6	U	A	253	130.167	67.406	-37.224	1.00 69.97	A16S
ATOM	5215	C2	U	A	253	129.176	67.883	-39.348	1.00 69.97	A16S
ATOM	5216	O2	U	A	253	128.777	68.658	-40.201	1.00 69.97	A16S
ATOM	5217	N3	U	A	253	129.175	66.526	-39.534	1.00 69.97	A16S
ATOM	5218	C4	U	A	253	129.632	65.569	-38.655	1.00 69.97	A16S
ATOM	5219	O4	U	A	253	129.551	64.374	-38.962	1.00 69.97	A16S
ATOM	5220	C5	U	A	253	130.167	66.091	-37.434	1.00 69.97	A16S
ATOM	5221	C2*	U	A	253	128.197	70.002	-37.270	1.00 68.66	A16S
ATOM	5222	O2*	U	A	253	127.818	71.309	-37.644	1.00 68.66	A16S
ATOM	5223	C3*	U	A	253	128.452	69.813	-35.780	1.00 68.66	A16S
ATOM	5224	O3*	U	A	253	127.483	70.425	-34.955	1.00 68.66	A16S
ATOM	5225	P	G	A	254	126.118	69.645	-34.636	1.00 70.39	A16S
ATOM	5226	O1P	G	A	254	125.323	70.548	-33.773	1.00 73.56	A16S
ATOM	5227	O2P	G	A	254	126.400	68.254	-34.192	1.00 73.56	A16S
ATOM	5228	O5*	G	A	254	125.364	69.622	-36.033	1.00 70.39	A16S
ATOM	5229	C5*	G	A	254	124.790	70.836	-36.530	1.00 70.39	A16S



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ATOM	5230	C4*	G	A	254	124.159	70.606	-37.863	1.00	70.39	A16S
ATOM	5231	O4*	G	A	254	125.169	70.094	-38.765	1.00	70.39	A16S
ATOM	5232	C1*	G	A	254	124.595	69.139	-39.632	1.00	70.39	A16S
ATOM	5233	N9	G	A	254	125.218	67.842	-39.377	1.00	73.56	A16S
ATOM	5234	C4	G	A	254	125.068	66.717	-40.150	1.00	73.56	A16S
ATOM	5235	N3	G	A	254	124.334	66.629	-41.280	1.00	73.56	A16S
ATOM	5236	C2	G	A	254	124.367	65.416	-41.795	1.00	73.56	A16S
ATOM	5237	N2	G	A	254	123.704	65.165	-42.929	1.00	73.56	A16S
ATOM	5238	N1	G	A	254	125.055	64.363	-41.236	1.00	73.56	A16S
ATOM	5239	C6	G	A	254	125.814	64.429	-40.070	1.00	73.56	A16S
ATOM	5240	O6	G	A	254	126.383	63.418	-39.645	1.00	73.56	A16S
ATOM	5241	C5	G	A	254	125.803	65.735	-39.516	1.00	73.56	A16S
ATOM	5242	N7	G	A	254	126.421	66.237	-38.378	1.00	73.56	A16S
ATOM	5243	C8	G	A	254	126.045	67.489	-38.332	1.00	73.56	A16S
ATOM	5244	C2*	G	A	254	123.098	69.109	-39.341	1.00	70.39	A16S
ATOM	5245	O2*	G	A	254	122.458	70.048	-40.186	1.00	70.39	A16S
ATOM	5246	C3*	G	A	254	123.068	69.556	-37.888	1.00	70.39	A16S
ATOM	5247	O3*	G	A	254	121.801	70.074	-37.488	1.00	70.39	A16S
ATOM	5248	P	G	A	255	120.626	69.051	-37.086	1.00	71.66	A16S
ATOM	5249	O1P	G	A	255	119.434	69.899	-36.792	1.00	82.76	A16S
ATOM	5250	O2P	G	A	255	121.120	68.091	-36.058	1.00	82.76	A16S
ATOM	5251	O5*	G	A	255	120.362	68.234	-38.431	1.00	71.66	A16S
ATOM	5252	C5*	G	A	255	119.939	68.925	-39.623	1.00	71.66	A16S
ATOM	5253	C4*	G	A	255	119.594	67.948	-40.709	1.00	71.66	A16S
ATOM	5254	O4*	G	A	255	120.774	67.212	-41.104	1.00	71.66	A16S
ATOM	5255	C1*	G	A	255	120.403	65.902	-41.491	1.00	71.66	A16S
ATOM	5256	N9	G	A	255	121.159	64.947	-40.692	1.00	82.76	A16S
ATOM	5257	C4	G	A	255	121.393	63.633	-41.012	1.00	82.76	A16S
ATOM	5258	N3	G	A	255	120.946	62.995	-42.113	1.00	82.76	A16S
ATOM	5259	C2	G	A	255	121.341	61.733	-42.145	1.00	82.76	A16S
ATOM	5260	N2	G	A	255	120.986	60.945	-43.169	1.00	82.76	A16S
ATOM	5261	N1	G	A	255	122.115	61.145	-41.176	1.00	82.76	A16S
ATOM	5262	C6	G	A	255	122.585	61.783	-40.033	1.00	82.76	A16S
ATOM	5263	O6	G	A	255	123.273	61.159	-39.224	1.00	82.76	A16S
ATOM	5264	C5	G	A	255	122.166	63.137	-39.983	1.00	82.76	A16S
ATOM	5265	N7	G	A	255	122.401	64.116	-39.029	1.00	82.76	A16S
ATOM	5266	C8	G	A	255	121.783	65.171	-39.489	1.00	82.76	A16S
ATOM	5267	C2*	G	A	255	118.891	65.766	-41.317	1.00	71.66	A16S
ATOM	5268	O2*	G	A	255	118.247	65.988	-42.558	1.00	71.66	A16S
ATOM	5269	C3*	G	A	255	118.599	66.876	-40.322	1.00	71.66	A16S
ATOM	5270	O3*	G	A	255	117.275	67.350	-40.439	1.00	71.66	A16S
ATOM	5271	P	U	A	256	116.141	66.744	-39.479	1.00	89.47	A16S
ATOM	5272	O1P	U	A	256	114.907	67.552	-39.699	1.00	84.55	A16S
ATOM	5273	O2P	U	A	256	116.726	66.649	-38.109	1.00	84.55	A16S
ATOM	5274	O5*	U	A	256	115.908	65.277	-40.065	1.00	89.47	A16S
ATOM	5275	C5*	U	A	256	115.208	65.108	-41.308	1.00	89.47	A16S
ATOM	5276	C4*	U	A	256	115.199	63.659	-41.731	1.00	89.47	A16S
ATOM	5277	O4*	U	A	256	116.542	63.226	-42.059	1.00	89.47	A16S
ATOM	5278	C1*	U	A	256	116.681	61.847	-41.759	1.00	89.47	A16S
ATOM	5279	N1	U	A	256	117.705	61.702	-40.720	1.00	84.55	A16S
ATOM	5280	C6	U	A	256	118.138	62.788	-39.990	1.00	84.55	A16S
ATOM	5281	C2	U	A	256	118.212	60.430	-40.484	1.00	84.55	A16S
ATOM	5282	O2	U	A	256	117.854	59.436	-41.115	1.00	84.55	A16S
ATOM	5283	N3	U	A	256	119.151	60.365	-39.481	1.00	84.55	A16S
ATOM	5284	C4	U	A	256	119.626	61.415	-38.713	1.00	84.55	A16S
ATOM	5285	O4	U	A	256	120.511	61.208	-37.883	1.00	84.55	A16S
ATOM	5286	C5	U	A	256	119.052	62.688	-39.022	1.00	84.55	A16S
ATOM	5287	C2*	U	A	256	115.339	61.347	-41.228	1.00	89.47	A16S
ATOM	5288	O2*	U	A	256	114.596	60.739	-42.266	1.00	89.47	A16S
ATOM	5289	C3*	U	A	256	114.719	62.638	-40.715	1.00	89.47	A16S
ATOM	5290	O3*	U	A	256	113.312	62.534	-40.647	1.00	89.47	A16S
ATOM	5291	P	G	A	257	112.624	62.125	-39.256	1.00	98.48	A16S
ATOM	5292	O1P	G	A	257	111.163	62.305	-39.493	1.00	95.10	A16S
ATOM	5293	O2P	G	A	257	113.288	62.875	-38.158	1.00	95.10	A16S
ATOM	5294	O5*	G	A	257	112.979	60.576	-39.057	1.00	98.48	A16S
ATOM	5295	C5*	G	A	257	112.265	59.539	-39.781	1.00	98.48	A16S
ATOM	5296	C4*	G	A	257	112.892	58.178	-39.542	1.00	98.48	A16S
ATOM	5297	O4*	G	A	257	114.290	58.229	-39.941	1.00	98.48	A16S
ATOM	5298	C1*	G	A	257	115.069	57.426	-39.068	1.00	98.48	A16S
ATOM	5299	N9	G	A	257	115.962	58.302	-38.313	1.00	95.10	A16S
ATOM	5300	C4	G	A	257	117.040	57.916	-37.547	1.00	95.10	A16S
ATOM	5301	N3	G	A	257	117.488	56.656	-37.388	1.00	95.10	A16S
ATOM	5302	C2	G	A	257	118.536	56.604	-36.584	1.00	95.10	A16S
ATOM	5303	N2	G	A	257	119.119	55.423	-36.322	1.00	95.10	A16S
ATOM	5304	N1	G	A	257	119.095	57.703	-35.977	1.00	95.10	A16S
ATOM	5305	C6	G	A	257	118.645	59.009	-36.121	1.00	95.10	A16S
ATOM	5306	O6	G	A	257	119.211	59.927	-35.518	1.00	95.10	A16S



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ATOM	5307	C5	G	A	257	117.528	59.080	-36.990	1.00	95.10	A16S
ATOM	5308	N7	G	A	257	116.787	60.176	-37.409	1.00	95.10	A16S
ATOM	5309	C8	G	A	257	115.874	59.669	-38.194	1.00	95.10	A16S
ATOM	5310	C2*	G	A	257	114.107	56.723	-38.111	1.00	98.48	A16S
ATOM	5311	O2*	G	A	257	113.767	55.444	-38.600	1.00	98.48	A16S
ATOM	5312	C3*	G	A	257	112.926	57.681	-38.104	1.00	98.48	A16S
ATOM	5313	O3*	G	A	257	111.741	57.016	-37.690	1.00	98.48	A16S
ATOM	5314	P	G	A	258	111.385	56.936	-36.116	1.00103.03		A16S
ATOM	5315	O1P	G	A	258	110.055	56.281	-36.022	1.00105.53		A16S
ATOM	5316	O2P	G	A	258	111.584	58.275	-35.506	1.00105.53		A16S
ATOM	5317	O5*	G	A	258	112.473	55.953	-35.480	1.00103.03		A16S
ATOM	5318	C5*	G	A	258	112.392	54.531	-35.701	1.00103.03		A16S
ATOM	5319	C4*	G	A	258	113.540	53.809	-35.027	1.00103.03		A16S
ATOM	5320	O4*	G	A	258	114.804	54.305	-35.548	1.00103.03		A16S
ATOM	5321	C1*	G	A	258	115.792	54.277	-34.524	1.00103.03		A16S
ATOM	5322	N9	G	A	258	116.239	55.644	-34.262	1.00105.53		A16S
ATOM	5323	C4	G	A	258	117.327	56.018	-33.504	1.00105.53		A16S
ATOM	5324	N3	G	A	258	118.192	55.184	-32.891	1.00105.53		A16S
ATOM	5325	C2	G	A	258	119.122	55.844	-32.222	1.00105.53		A16S
ATOM	5326	N2	G	A	258	120.060	55.170	-31.550	1.00105.53		A16S
ATOM	5327	N1	G	A	258	119.198	57.214	-32.159	1.00105.53		A16S
ATOM	5328	C6	G	A	258	118.318	58.091	-32.782	1.00105.53		A16S
ATOM	5329	O6	G	A	258	118.472	59.314	-32.659	1.00105.53		A16S
ATOM	5330	C5	G	A	258	117.316	57.396	-33.504	1.00105.53		A16S
ATOM	5331	N7	G	A	258	116.259	57.880	-34.262	1.00105.53		A16S
ATOM	5332	C8	G	A	258	115.652	56.809	-34.694	1.00105.53		A16S
ATOM	5333	C2*	G	A	258	115.143	53.673	-33.280	1.00103.03		A16S
ATOM	5334	O2*	G	A	258	115.424	52.291	-33.219	1.00103.03		A16S
ATOM	5335	C3*	G	A	258	113.670	53.976	-33.524	1.00103.03		A16S
ATOM	5336	O3*	G	A	258	112.832	53.112	-32.776	1.00103.03		A16S
ATOM	5337	P	G	A	259	112.508	53.477	-31.246	1.00	88.60	A16S
ATOM	5338	O1P	G	A	259	111.466	52.558	-30.724	1.00	95.16	A16S
ATOM	5339	O2P	G	A	259	112.270	54.950	-31.208	1.00	95.16	A16S
ATOM	5340	O5*	G	A	259	113.870	53.156	-30.472	1.00	88.60	A16S
ATOM	5341	C5*	G	A	259	114.471	51.839	-30.520	1.00	88.60	A16S
ATOM	5342	C4*	G	A	259	115.812	51.831	-29.804	1.00	88.60	A16S
ATOM	5343	O4*	G	A	259	116.745	52.720	-30.475	1.00	88.60	A16S
ATOM	5344	C1*	G	A	259	117.559	53.380	-29.514	1.00	88.60	A16S
ATOM	5345	N9	G	A	259	117.356	54.825	-29.651	1.00	95.16	A16S
ATOM	5346	C4	G	A	259	118.117	55.821	-29.084	1.00	95.16	A16S
ATOM	5347	N3	G	A	259	119.176	55.643	-28.273	1.00	95.16	A16S
ATOM	5348	C2	G	A	259	119.707	56.794	-27.893	1.00	95.16	A16S
ATOM	5349	N2	G	A	259	120.771	56.803	-27.072	1.00	95.16	A16S
ATOM	5350	N1	G	A	259	119.238	58.024	-28.285	1.00	95.16	A16S
ATOM	5351	C6	G	A	259	118.151	58.232	-29.122	1.00	95.16	A16S
ATOM	5352	O6	G	A	259	117.819	59.384	-29.419	1.00	95.16	A16S
ATOM	5353	C5	G	A	259	117.564	57.002	-29.529	1.00	95.16	A16S
ATOM	5354	N7	G	A	259	116.468	56.758	-30.342	1.00	95.16	A16S
ATOM	5355	C8	G	A	259	116.380	55.458	-30.382	1.00	95.16	A16S
ATOM	5356	C2*	G	A	259	117.193	52.833	-28.131	1.00	88.60	A16S
ATOM	5357	O2*	G	A	259	118.098	51.820	-27.747	1.00	88.60	A16S
ATOM	5358	C3*	G	A	259	115.782	52.310	-28.363	1.00	88.60	A16S
ATOM	5359	O3*	G	A	259	115.473	51.252	-27.478	1.00	88.60	A16S
ATOM	5360	P	G	A	260	114.647	51.565	-26.143	1.00	87.46	A16S
ATOM	5361	O1P	G	A	260	114.539	50.307	-25.360	1.00	97.85	A16S
ATOM	5362	O2P	G	A	260	113.404	52.291	-26.542	1.00	97.85	A16S
ATOM	5363	O5*	G	A	260	115.588	52.576	-25.353	1.00	87.46	A16S
ATOM	5364	C5*	G	A	260	116.903	52.187	-24.947	1.00	87.46	A16S
ATOM	5365	C4*	G	A	260	117.608	53.356	-24.327	1.00	87.46	A16S
ATOM	5366	O4*	G	A	260	117.919	54.336	-25.345	1.00	87.46	A16S
ATOM	5367	C1*	G	A	260	117.824	55.641	-24.796	1.00	87.46	A16S
ATOM	5368	N9	G	A	260	116.920	56.423	-25.636	1.00	97.85	A16S
ATOM	5369	C4	G	A	260	116.886	57.793	-25.764	1.00	97.85	A16S
ATOM	5370	N3	G	A	260	117.665	58.673	-25.104	1.00	97.85	A16S
ATOM	5371	C2	G	A	260	117.406	59.920	-25.457	1.00	97.85	A16S
ATOM	5372	N2	G	A	260	118.079	60.927	-24.895	1.00	97.85	A16S
ATOM	5373	N1	G	A	260	116.467	60.273	-26.388	1.00	97.85	A16S
ATOM	5374	C6	G	A	260	115.657	59.383	-27.083	1.00	97.85	A16S
ATOM	5375	O6	G	A	260	114.849	59.805	-27.920	1.00	97.85	A16S
ATOM	5376	C5	G	A	260	115.912	58.047	-26.705	1.00	97.85	A16S
ATOM	5377	N7	G	A	260	115.327	56.868	-27.141	1.00	97.85	A16S
ATOM	5378	C8	G	A	260	115.951	55.934	-26.478	1.00	97.85	A16S
ATOM	5379	C2*	G	A	260	117.403	55.508	-23.327	1.00	87.46	A16S
ATOM	5380	O2*	G	A	260	118.533	55.609	-22.478	1.00	87.46	A16S
ATOM	5381	C3*	G	A	260	116.788	54.113	-23.302	1.00	87.46	A16S
ATOM	5382	O3*	G	A	260	116.911	53.503	-22.034	1.00	87.46	A16S
ATOM	5383	P	U	A	261	115.662	53.516	-21.018	1.00	82.99	A16S



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ATOM	5384	O1P	U	A	261	114.375	53.289	-21.777	1.00	79.26	A16S
ATOM	5385	O2P	U	A	261	116.053	52.587	-19.902	1.00	79.26	A16S
ATOM	5386	O5*	U	A	261	115.632	55.011	-20.459	1.00	82.99	A16S
ATOM	5387	C5*	U	A	261	116.683	55.490	-19.606	1.00	82.99	A16S
ATOM	5388	C4*	U	A	261	116.536	56.970	-19.373	1.00	82.99	A16S
ATOM	5389	O4*	U	A	261	116.842	57.706	-20.582	1.00	82.99	A16S
ATOM	5390	C1*	U	A	261	116.086	58.901	-20.609	1.00	82.99	A16S
ATOM	5391	N1	U	A	261	115.335	58.946	-21.870	1.00	79.26	A16S
ATOM	5392	C6	U	A	261	115.014	57.789	-22.539	1.00	79.26	A16S
ATOM	5393	C2	U	A	261	114.940	60.191	-22.364	1.00	79.26	A16S
ATOM	5394	O2	U	A	261	115.242	61.258	-21.837	1.00	79.26	A16S
ATOM	5395	N3	U	A	261	114.184	60.137	-23.509	1.00	79.26	A16S
ATOM	5396	C4	U	A	261	113.809	59.007	-24.207	1.00	79.26	A16S
ATOM	5397	O4	U	A	261	113.068	59.117	-25.179	1.00	79.26	A16S
ATOM	5398	C5	U	A	261	114.290	57.779	-23.660	1.00	79.26	A16S
ATOM	5399	C2*	U	A	261	115.193	58.923	-19.367	1.00	82.99	A16S
ATOM	5400	O2*	U	A	261	115.813	59.725	-18.392	1.00	82.99	A16S
ATOM	5401	C3*	U	A	261	115.157	57.450	-18.973	1.00	82.99	A16S
ATOM	5402	O3*	U	A	261	114.949	57.254	-17.581	1.00	82.99	A16S
ATOM	5403	P	A	A	262	113.488	56.830	-17.048	1.00	67.40	A16S
ATOM	5404	O1P	A	A	262	113.017	55.682	-17.880	1.00	87.04	A16S
ATOM	5405	O2P	A	A	262	113.531	56.705	-15.562	1.00	87.04	A16S
ATOM	5406	O5*	A	A	262	112.590	58.087	-17.427	1.00	67.40	A16S
ATOM	5407	C5*	A	A	262	111.280	58.277	-16.880	1.00	67.40	A16S
ATOM	5408	C4*	A	A	262	110.916	59.738	-16.959	1.00	67.40	A16S
ATOM	5409	O4*	A	A	262	111.514	60.470	-15.861	1.00	67.40	A16S
ATOM	5410	C1*	A	A	262	111.948	61.740	-16.316	1.00	67.40	A16S
ATOM	5411	N9	A	A	262	113.381	61.867	-16.015	1.00	87.04	A16S
ATOM	5412	C4	A	A	262	114.099	63.032	-15.847	1.00	87.04	A16S
ATOM	5413	N3	A	A	262	113.658	64.295	-15.980	1.00	87.04	A16S
ATOM	5414	C2	A	A	262	114.624	65.168	-15.692	1.00	87.04	A16S
ATOM	5415	N1	A	A	262	115.885	64.942	-15.313	1.00	87.04	A16S
ATOM	5416	C6	A	A	262	116.303	63.662	-15.191	1.00	87.04	A16S
ATOM	5417	N6	A	A	262	117.566	63.437	-14.803	1.00	87.04	A16S
ATOM	5418	C5	A	A	262	115.374	62.639	-15.477	1.00	87.04	A16S
ATOM	5419	N7	A	A	262	115.474	61.255	-15.458	1.00	87.04	A16S
ATOM	5420	C8	A	A	262	114.274	60.846	-15.792	1.00	87.04	A16S
ATOM	5421	C2*	A	A	262	111.545	61.875	-17.790	1.00	67.40	A16S
ATOM	5422	O2*	A	A	262	110.290	62.519	-17.879	1.00	67.40	A16S
ATOM	5423	C3*	A	A	262	111.431	60.422	-18.211	1.00	67.40	A16S
ATOM	5424	O3*	A	A	262	110.529	60.238	-19.274	1.00	67.40	A16S
ATOM	5425	P	A	A	263	111.095	60.050	-20.755	1.00	64.92	A16S
ATOM	5426	O1P	A	A	263	109.959	59.773	-21.678	1.00	60.75	A16S
ATOM	5427	O2P	A	A	263	112.218	59.080	-20.672	1.00	60.75	A16S
ATOM	5428	O5*	A	A	263	111.632	61.509	-21.102	1.00	64.92	A16S
ATOM	5429	C5*	A	A	263	110.702	62.609	-21.269	1.00	64.92	A16S
ATOM	5430	C4*	A	A	263	111.442	63.924	-21.365	1.00	64.92	A16S
ATOM	5431	O4*	A	A	263	112.025	64.264	-20.079	1.00	64.92	A16S
ATOM	5432	C1*	A	A	263	113.260	64.920	-20.285	1.00	64.92	A16S
ATOM	5433	N9	A	A	263	114.315	64.170	-19.604	1.00	60.75	A16S
ATOM	5434	C4	A	A	263	115.407	64.709	-18.976	1.00	60.75	A16S
ATOM	5435	N3	A	A	263	115.674	66.009	-18.780	1.00	60.75	A16S
ATOM	5436	C2	A	A	263	116.857	66.159	-18.212	1.00	60.75	A16S
ATOM	5437	N1	A	A	263	117.742	65.229	-17.851	1.00	60.75	A16S
ATOM	5438	C6	A	A	263	117.437	63.933	-18.061	1.00	60.75	A16S
ATOM	5439	N6	A	A	263	118.323	63.003	-17.718	1.00	60.75	A16S
ATOM	5440	C5	A	A	263	116.208	63.642	-18.636	1.00	60.75	A16S
ATOM	5441	N7	A	A	263	115.601	62.446	-18.969	1.00	60.75	A16S
ATOM	5442	C8	A	A	263	114.474	62.812	-19.523	1.00	60.75	A16S
ATOM	5443	C2*	A	A	263	113.508	65.030	-21.799	1.00	64.92	A16S
ATOM	5444	O2*	A	A	263	113.157	66.322	-22.235	1.00	64.92	A16S
ATOM	5445	C3*	A	A	263	112.591	63.950	-22.362	1.00	64.92	A16S
ATOM	5446	O3*	A	A	263	112.084	64.286	-23.653	1.00	64.92	A16S
ATOM	5447	P	U	A	264	112.857	63.798	-24.970	1.00	67.63	A16S
ATOM	5448	O1P	U	A	264	111.876	63.597	-26.060	1.00	91.02	A16S
ATOM	5449	O2P	U	A	264	113.754	62.687	-24.583	1.00	91.02	A16S
ATOM	5450	O5*	U	A	264	113.755	65.048	-25.363	1.00	67.63	A16S
ATOM	5451	C5*	U	A	264	113.149	66.321	-25.656	1.00	67.63	A16S
ATOM	5452	C4*	U	A	264	114.212	67.376	-25.861	1.00	67.63	A16S
ATOM	5453	O4*	U	A	264	114.827	67.744	-24.600	1.00	67.63	A16S
ATOM	5454	C1*	U	A	264	116.210	67.990	-24.797	1.00	67.63	A16S
ATOM	5455	N1	U	A	264	116.975	67.036	-23.975	1.00	91.02	A16S
ATOM	5456	C6	U	A	264	116.449	65.812	-23.637	1.00	91.02	A16S
ATOM	5457	C2	U	A	264	118.244	67.401	-23.554	1.00	91.02	A16S
ATOM	5458	O2	U	A	264	118.752	68.472	-23.819	1.00	91.02	A16S
ATOM	5459	N3	U	A	264	118.901	66.456	-22.809	1.00	91.02	A16S
ATOM	5460	C4	U	A	264	118.434	65.211	-22.449	1.00	91.02	A16S



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ATOM	5461	O4	U	A	264	119.173	64.440	-21.839	1.00	91.02	A16S
ATOM	5462	C5	U	A	264	117.115	64.914	-22.908	1.00	91.02	A16S
ATOM	5463	C2*	U	A	264	116.489	67.863	-26.297	1.00	67.63	A16S
ATOM	5464	O2*	U	A	264	116.367	69.144	-26.888	1.00	67.63	A16S
ATOM	5465	C3*	U	A	264	115.363	66.945	-26.743	1.00	67.63	A16S
ATOM	5466	O3*	U	A	264	115.023	67.113	-28.101	1.00	67.63	A16S
ATOM	5467	P	G	A	265	115.418	65.967	-29.141	1.00	64.59	A16S
ATOM	5468	O1P	G	A	265	114.916	66.327	-30.494	1.00	95.73	A16S
ATOM	5469	O2P	G	A	265	115.013	64.673	-28.532	1.00	95.73	A16S
ATOM	5470	O5*	G	A	265	117.007	66.044	-29.145	1.00	64.59	A16S
ATOM	5471	C5*	G	A	265	117.681	67.255	-29.504	1.00	64.59	A16S
ATOM	5472	C4*	G	A	265	119.136	67.167	-29.136	1.00	64.59	A16S
ATOM	5473	O4*	G	A	265	119.272	67.174	-27.694	1.00	64.59	A16S
ATOM	5474	C1*	G	A	265	120.471	66.511	-27.337	1.00	64.59	A16S
ATOM	5475	N9	G	A	265	120.193	65.454	-26.373	1.00	95.73	A16S
ATOM	5476	C4	G	A	265	121.093	64.943	-25.478	1.00	95.73	A16S
ATOM	5477	N3	G	A	265	122.356	65.372	-25.303	1.00	95.73	A16S
ATOM	5478	C2	G	A	265	122.995	64.662	-24.389	1.00	95.73	A16S
ATOM	5479	N2	G	A	265	124.268	64.955	-24.087	1.00	95.73	A16S
ATOM	5480	N1	G	A	265	122.438	63.612	-23.704	1.00	95.73	A16S
ATOM	5481	C6	G	A	265	121.140	63.150	-23.871	1.00	95.73	A16S
ATOM	5482	O6	G	A	265	120.742	62.179	-23.209	1.00	95.73	A16S
ATOM	5483	C5	G	A	265	120.438	63.912	-24.846	1.00	95.73	A16S
ATOM	5484	N7	G	A	265	119.137	63.801	-25.310	1.00	95.73	A16S
ATOM	5485	C8	G	A	265	119.033	64.743	-26.207	1.00	95.73	A16S
ATOM	5486	C2*	G	A	265	121.087	65.935	-28.613	1.00	64.59	A16S
ATOM	5487	O2*	G	A	265	122.140	66.793	-29.012	1.00	64.59	A16S
ATOM	5488	C3*	G	A	265	119.896	65.920	-29.572	1.00	64.59	A16S
ATOM	5489	O3*	G	A	265	120.298	65.989	-30.947	1.00	64.59	A16S
ATOM	5490	P	G	A	266	120.453	64.639	-31.832	1.00	72.07	A16S
ATOM	5491	O1P	G	A	266	120.684	65.108	-33.228	1.00	107.71	A16S
ATOM	5492	O2P	G	A	266	119.360	63.676	-31.561	1.00	107.71	A16S
ATOM	5493	O5*	G	A	266	121.805	63.991	-31.313	1.00	72.07	A16S
ATOM	5494	C5*	G	A	266	122.991	64.784	-31.274	1.00	72.07	A16S
ATOM	5495	C4*	G	A	266	124.062	64.128	-30.434	1.00	72.07	A16S
ATOM	5496	O4*	G	A	266	124.436	62.845	-30.990	1.00	72.07	A16S
ATOM	5497	C1*	G	A	266	125.721	62.924	-31.552	1.00	72.07	A16S
ATOM	5498	N9	G	A	266	125.466	63.050	-32.978	1.00	107.71	A16S
ATOM	5499	C4	G	A	266	125.484	62.028	-33.878	1.00	107.71	A16S
ATOM	5500	N3	G	A	266	125.890	60.775	-33.630	1.00	107.71	A16S
ATOM	5501	C2	G	A	266	125.715	59.994	-34.674	1.00	107.71	A16S
ATOM	5502	N2	G	A	266	126.074	58.701	-34.610	1.00	107.71	A16S
ATOM	5503	N1	G	A	266	125.175	60.419	-35.865	1.00	107.71	A16S
ATOM	5504	C6	G	A	266	124.751	61.713	-36.131	1.00	107.71	A16S
ATOM	5505	O6	G	A	266	124.267	61.995	-37.226	1.00	107.71	A16S
ATOM	5506	C5	G	A	266	124.946	62.549	-35.034	1.00	107.71	A16S
ATOM	5507	N7	G	A	266	124.673	63.898	-34.887	1.00	107.71	A16S
ATOM	5508	C8	G	A	266	125.026	64.160	-33.659	1.00	107.71	A16S
ATOM	5509	C2*	G	A	266	126.455	64.030	-30.783	1.00	72.07	A16S
ATOM	5510	O2*	G	A	266	127.055	63.415	-29.667	1.00	72.07	A16S
ATOM	5511	C3*	G	A	266	125.309	64.983	-30.430	1.00	72.07	A16S
ATOM	5512	O3*	G	A	266	125.230	65.757	-29.221	1.00	72.07	A16S
ATOM	5513	P	C	A	267	126.155	65.446	-27.929	1.00	76.25	A16S
ATOM	5514	O1P	C	A	267	125.643	66.431	-26.934	1.00	81.94	A16S
ATOM	5515	O2P	C	A	267	127.617	65.423	-28.246	1.00	81.94	A16S
ATOM	5516	O5*	C	A	267	125.746	64.010	-27.370	1.00	76.25	A16S
ATOM	5517	C5*	C	A	267	126.347	63.561	-26.132	1.00	76.25	A16S
ATOM	5518	C4*	C	A	267	125.836	62.202	-25.721	1.00	76.25	A16S
ATOM	5519	O4*	C	A	267	124.438	62.260	-25.364	1.00	76.25	A16S
ATOM	5520	C1*	C	A	267	123.830	61.016	-25.652	1.00	76.25	A16S
ATOM	5521	N1	C	A	267	122.670	61.240	-26.535	1.00	81.94	A16S
ATOM	5522	C6	C	A	267	122.630	62.302	-27.394	1.00	81.94	A16S
ATOM	5523	C2	C	A	267	121.602	60.340	-26.480	1.00	81.94	A16S
ATOM	5524	O2	C	A	267	121.651	59.395	-25.686	1.00	81.94	A16S
ATOM	5525	N3	C	A	267	120.543	60.525	-27.291	1.00	81.94	A16S
ATOM	5526	C4	C	A	267	120.520	61.559	-28.129	1.00	81.94	A16S
ATOM	5527	N4	C	A	267	119.467	61.690	-28.917	1.00	81.94	A16S
ATOM	5528	C5	C	A	267	121.581	62.499	-28.198	1.00	81.94	A16S
ATOM	5529	C2*	C	A	267	124.898	60.088	-26.239	1.00	76.25	A16S
ATOM	5530	O2*	C	A	267	125.391	59.265	-25.202	1.00	76.25	A16S
ATOM	5531	C3*	C	A	267	125.949	61.076	-26.731	1.00	76.25	A16S
ATOM	5532	O3*	C	A	267	127.245	60.507	-26.638	1.00	76.25	A16S
ATOM	5533	P	C	A	268	127.995	59.998	-27.962	1.00	89.38	A16S
ATOM	5534	O1P	C	A	268	129.387	59.696	-27.532	1.00	81.74	A16S
ATOM	5535	O2P	C	A	268	127.765	60.953	-29.082	1.00	81.74	A16S
ATOM	5536	O5*	C	A	268	127.264	58.627	-28.319	1.00	89.38	A16S
ATOM	5537	C5*	C	A	268	127.594	57.412	-27.626	1.00	89.38	A16S



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ATOM	5538	C4*	C	A	268	126.635	56.324	-28.012	1.00	89.38	A16S
ATOM	5539	O4*	C	A	268	125.297	56.742	-27.654	1.00	89.38	A16S
ATOM	5540	C1*	C	A	268	124.372	56.251	-28.608	1.00	89.38	A16S
ATOM	5541	N1	C	A	268	123.643	57.375	-29.205	1.00	81.74	A16S
ATOM	5542	C6	C	A	268	124.080	58.664	-29.071	1.00	81.74	A16S
ATOM	5543	C2	C	A	268	122.485	57.094	-29.935	1.00	81.74	A16S
ATOM	5544	O2	C	A	268	122.108	55.910	-30.024	1.00	81.74	A16S
ATOM	5545	N3	C	A	268	121.810	58.112	-30.525	1.00	81.74	A16S
ATOM	5546	C4	C	A	268	122.254	59.368	-30.399	1.00	81.74	A16S
ATOM	5547	N4	C	A	268	121.570	60.342	-31.011	1.00	81.74	A16S
ATOM	5548	C5	C	A	268	123.423	59.681	-29.643	1.00	81.74	A16S
ATOM	5549	C2*	C	A	268	125.145	55.469	-29.666	1.00	89.38	A16S
ATOM	5550	O2*	C	A	268	125.002	54.090	-29.396	1.00	89.38	A16S
ATOM	5551	C3*	C	A	268	126.553	56.030	-29.499	1.00	89.38	A16S
ATOM	5552	O3*	C	A	268	127.562	55.121	-29.913	1.00	89.38	A16S
ATOM	5553	P	C	A	269	128.096	55.169	-31.431	1.00	96.31	A16S
ATOM	5554	O1P	C	A	269	129.292	54.289	-31.494	1.00	84.74	A16S
ATOM	5555	O2P	C	A	269	128.197	56.591	-31.877	1.00	84.74	A16S
ATOM	5556	O5*	C	A	269	126.958	54.440	-32.270	1.00	96.31	A16S
ATOM	5557	C5*	C	A	269	126.764	53.032	-32.135	1.00	96.31	A16S
ATOM	5558	C4*	C	A	269	125.559	52.601	-32.915	1.00	96.31	A16S
ATOM	5559	O4*	C	A	269	124.388	53.284	-32.402	1.00	96.31	A16S
ATOM	5560	C1*	C	A	269	123.484	53.528	-33.464	1.00	96.31	A16S
ATOM	5561	N1	C	A	269	123.200	54.972	-33.535	1.00	84.74	A16S
ATOM	5562	C6	C	A	269	123.933	55.875	-32.816	1.00	84.74	A16S
ATOM	5563	C2	C	A	269	122.147	55.412	-34.365	1.00	84.74	A16S
ATOM	5564	O2	C	A	269	121.504	54.578	-35.026	1.00	84.74	A16S
ATOM	5565	N3	C	A	269	121.863	56.728	-34.427	1.00	84.74	A16S
ATOM	5566	C4	C	A	269	122.576	57.596	-33.713	1.00	84.74	A16S
ATOM	5567	N4	C	A	269	122.239	58.883	-33.796	1.00	84.74	A16S
ATOM	5568	C5	C	A	269	123.660	57.183	-32.877	1.00	84.74	A16S
ATOM	5569	C2*	C	A	269	124.106	52.991	-34.757	1.00	96.31	A16S
ATOM	5570	O2*	C	A	269	123.560	51.726	-35.082	1.00	96.31	A16S
ATOM	5571	C3*	C	A	269	125.585	52.946	-34.394	1.00	96.31	A16S
ATOM	5572	O3*	C	A	269	126.294	51.986	-35.169	1.00	96.31	A16S
ATOM	5573	P	A	A	270	126.945	52.430	-36.570	1.00	97.05	A16S
ATOM	5574	O1P	A	A	270	127.900	51.371	-36.970	1.00	104.55	A16S
ATOM	5575	O2P	A	A	270	127.428	53.832	-36.406	1.00	104.55	A16S
ATOM	5576	O5*	A	A	270	125.726	52.419	-37.605	1.00	97.05	A16S
ATOM	5577	C5*	A	A	270	125.137	51.178	-38.045	1.00	97.05	A16S
ATOM	5578	C4*	A	A	270	123.985	51.436	-38.991	1.00	97.05	A16S
ATOM	5579	O4*	A	A	270	122.903	52.100	-38.288	1.00	97.05	A16S
ATOM	5580	C1*	A	A	270	122.270	53.039	-39.148	1.00	97.05	A16S
ATOM	5581	N9	A	A	270	122.428	54.377	-38.559	1.00	104.55	A16S
ATOM	5582	C4	A	A	270	121.664	55.498	-38.792	1.00	104.55	A16S
ATOM	5583	N3	A	A	270	120.614	55.616	-39.619	1.00	104.55	A16S
ATOM	5584	C2	A	A	270	120.117	56.849	-39.567	1.00	104.55	A16S
ATOM	5585	N1	A	A	270	120.523	57.898	-38.839	1.00	104.55	A16S
ATOM	5586	C6	A	A	270	121.586	57.744	-38.022	1.00	104.55	A16S
ATOM	5587	N6	A	A	270	122.002	58.786	-37.297	1.00	104.55	A16S
ATOM	5588	C5	A	A	270	122.196	56.490	-37.984	1.00	104.55	A16S
ATOM	5589	N7	A	A	270	123.277	56.014	-37.265	1.00	104.55	A16S
ATOM	5590	C8	A	A	270	123.376	54.763	-37.640	1.00	104.55	A16S
ATOM	5591	C2*	A	A	270	122.915	52.899	-40.528	1.00	97.05	A16S
ATOM	5592	O2*	A	A	270	122.146	52.004	-41.306	1.00	97.05	A16S
ATOM	5593	C3*	A	A	270	124.286	52.340	-40.170	1.00	97.05	A16S
ATOM	5594	O3*	A	A	270	124.878	51.623	-41.237	1.00	97.05	A16S
ATOM	5595	P	C	A	271	125.994	52.340	-42.141	1.00	96.12	A16S
ATOM	5596	O1P	C	A	271	126.633	51.295	-42.980	1.00	101.27	A16S
ATOM	5597	O2P	C	A	271	126.830	53.164	-41.238	1.00	101.27	A16S
ATOM	5598	O5*	C	A	271	125.158	53.315	-43.082	1.00	96.12	A16S
ATOM	5599	C5*	C	A	271	124.161	52.788	-43.968	1.00	96.12	A16S
ATOM	5600	C4*	C	A	271	123.224	53.879	-44.413	1.00	96.12	A16S
ATOM	5601	O4*	C	A	271	122.474	54.377	-43.275	1.00	96.12	A16S
ATOM	5602	C1*	C	A	271	122.242	55.771	-43.428	1.00	96.12	A16S
ATOM	5603	N1	C	A	271	122.880	56.487	-42.305	1.00	101.27	A16S
ATOM	5604	C6	C	A	271	123.916	55.926	-41.611	1.00	101.27	A16S
ATOM	5605	C2	C	A	271	122.409	57.769	-41.962	1.00	101.27	A16S
ATOM	5606	O2	C	A	271	121.460	58.263	-42.603	1.00	101.27	A16S
ATOM	5607	N3	C	A	271	123.000	58.433	-40.943	1.00	101.27	A16S
ATOM	5608	C4	C	A	271	124.007	57.869	-40.273	1.00	101.27	A16S
ATOM	5609	N4	C	A	271	124.547	58.556	-39.263	1.00	101.27	A16S
ATOM	5610	C5	C	A	271	124.502	56.575	-40.601	1.00	101.27	A16S
ATOM	5611	C2*	C	A	271	122.842	56.196	-44.769	1.00	96.12	A16S
ATOM	5612	O2*	C	A	271	121.851	56.220	-45.780	1.00	96.12	A16S
ATOM	5613	C3*	C	A	271	123.889	55.115	-44.987	1.00	96.12	A16S
ATOM	5614	O3*	C	A	271	124.231	54.989	-46.348	1.00	96.12	A16S



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ATOM	5615	P	C	A	272	125.398	55.915	-46.937	1.00101.41	A16S
ATOM	5616	O1P	C	A	272	125.640	55.524	-48.363	1.00 93.83	A16S
ATOM	5617	O2P	C	A	272	126.514	55.850	-45.956	1.00 93.83	A16S
ATOM	5618	O5*	C	A	272	124.768	57.383	-46.893	1.00101.41	A16S
ATOM	5619	C5*	C	A	272	123.702	57.748	-47.787	1.00101.41	A16S
ATOM	5620	C4*	C	A	272	123.330	59.206	-47.625	1.00101.41	A16S
ATOM	5621	O4*	C	A	272	122.783	59.429	-46.300	1.00101.41	A16S
ATOM	5622	C1*	C	A	272	123.041	60.768	-45.900	1.00101.41	A16S
ATOM	5623	N1	C	A	272	123.828	60.774	-44.648	1.00 93.83	A16S
ATOM	5624	C6	C	A	272	124.429	59.640	-44.171	1.00 93.83	A16S
ATOM	5625	C2	C	A	272	123.968	61.991	-43.956	1.00 93.83	A16S
ATOM	5626	O2	C	A	272	123.381	63.002	-44.387	1.00 93.83	A16S
ATOM	5627	N3	C	A	272	124.730	62.034	-42.839	1.00 93.83	A16S
ATOM	5628	C4	C	A	272	125.324	60.927	-42.394	1.00 93.83	A16S
ATOM	5629	N4	C	A	272	126.074	61.023	-41.295	1.00 93.83	A16S
ATOM	5630	C5	C	A	272	125.178	59.670	-43.059	1.00 93.83	A16S
ATOM	5631	C2*	C	A	272	123.810	61.449	-47.032	1.00101.41	A16S
ATOM	5632	O2*	C	A	272	122.911	62.174	-47.845	1.00101.41	A16S
ATOM	5633	C3*	C	A	272	124.427	60.255	-47.746	1.00101.41	A16S
ATOM	5634	O3*	C	A	272	124.767	60.589	-49.083	1.00101.41	A16S
ATOM	5635	P	A	A	273	126.238	61.168	-49.406	1.00106.50	A16S
ATOM	5636	O1P	A	A	273	126.352	61.279	-50.883	1.00 85.65	A16S
ATOM	5637	O2P	A	A	273	127.240	60.358	-48.647	1.00 85.65	A16S
ATOM	5638	O5*	A	A	273	126.209	62.657	-48.834	1.00106.50	A16S
ATOM	5639	C5*	A	A	273	125.283	63.617	-49.373	1.00106.50	A16S
ATOM	5640	C4*	A	A	273	125.283	64.880	-48.550	1.00106.50	A16S
ATOM	5641	O4*	A	A	273	124.900	64.577	-47.186	1.00106.50	A16S
ATOM	5642	C1*	A	A	273	125.575	65.447	-46.297	1.00106.50	A16S
ATOM	5643	N9	A	A	273	126.363	64.649	-45.355	1.00 85.65	A16S
ATOM	5644	C4	A	A	273	126.919	65.112	-44.184	1.00 85.65	A16S
ATOM	5645	N3	A	A	273	126.864	66.365	-43.691	1.00 85.65	A16S
ATOM	5646	C2	A	A	273	127.523	66.444	-42.538	1.00 85.65	A16S
ATOM	5647	N1	A	A	273	128.173	65.487	-41.866	1.00 85.65	A16S
ATOM	5648	C6	A	A	273	128.198	64.236	-42.379	1.00 85.65	A16S
ATOM	5649	N6	A	A	273	128.825	63.274	-41.694	1.00 85.65	A16S
ATOM	5650	C5	A	A	273	127.550	64.020	-43.609	1.00 85.65	A16S
ATOM	5651	N7	A	A	273	127.403	62.890	-44.404	1.00 85.65	A16S
ATOM	5652	C8	A	A	273	126.697	63.314	-45.424	1.00 85.65	A16S
ATOM	5653	C2*	A	A	273	126.426	66.397	-47.135	1.00106.50	A16S
ATOM	5654	O2*	A	A	273	125.685	67.586	-47.319	1.00106.50	A16S
ATOM	5655	C3*	A	A	273	126.612	65.599	-48.421	1.00106.50	A16S
ATOM	5656	O3*	A	A	273	126.847	66.435	-49.548	1.00106.50	A16S
ATOM	5657	P	A	A	274	128.332	66.550	-50.163	1.00 89.63	A16S
ATOM	5658	O1P	A	A	274	128.220	67.448	-51.343	1.00 83.14	A16S
ATOM	5659	O2P	A	A	274	128.906	65.180	-50.315	1.00 83.14	A16S
ATOM	5660	O5*	A	A	274	129.177	67.313	-49.046	1.00 89.63	A16S
ATOM	5661	C5*	A	A	274	128.695	68.550	-48.485	1.00 89.63	A16S
ATOM	5662	C4*	A	A	274	129.543	68.977	-47.310	1.00 89.63	A16S
ATOM	5663	O4*	A	A	274	129.424	68.021	-46.223	1.00 89.63	A16S
ATOM	5664	C1*	A	A	274	130.711	67.686	-45.770	1.00 89.63	A16S
ATOM	5665	N9	A	A	274	130.718	66.329	-45.222	1.00 83.14	A16S
ATOM	5666	C4	A	A	274	131.097	66.041	-43.938	1.00 83.14	A16S
ATOM	5667	N3	A	A	274	131.454	66.918	-42.991	1.00 83.14	A16S
ATOM	5668	C2	A	A	274	131.788	66.282	-41.876	1.00 83.14	A16S
ATOM	5669	N1	A	A	274	131.804	64.970	-41.619	1.00 83.14	A16S
ATOM	5670	C6	A	A	274	131.438	64.119	-42.590	1.00 83.14	A16S
ATOM	5671	N6	A	A	274	131.463	62.819	-42.322	1.00 83.14	A16S
ATOM	5672	C5	A	A	274	131.055	64.665	-43.826	1.00 83.14	A16S
ATOM	5673	N7	A	A	274	130.619	64.089	-45.012	1.00 83.14	A16S
ATOM	5674	C8	A	A	274	130.422	65.119	-45.805	1.00 83.14	A16S
ATOM	5675	C2*	A	A	274	131.642	67.902	-46.959	1.00 89.63	A16S
ATOM	5676	O2*	A	A	274	132.974	68.072	-46.503	1.00 89.63	A16S
ATOM	5677	C3*	A	A	274	131.033	69.153	-47.584	1.00 89.63	A16S
ATOM	5678	O3*	A	A	274	131.504	70.291	-46.867	1.00 89.63	A16S
ATOM	5679	P	G	A	275	131.107	71.772	-47.357	1.00 76.32	A16S
ATOM	5680	O1P	G	A	275	130.377	71.669	-48.654	1.00 79.39	A16S
ATOM	5681	O2P	G	A	275	132.324	72.638	-47.257	1.00 79.39	A16S
ATOM	5682	O5*	G	A	275	130.051	72.246	-46.260	1.00 76.32	A16S
ATOM	5683	C5*	G	A	275	130.492	72.800	-45.008	1.00 76.32	A16S
ATOM	5684	C4*	G	A	275	129.834	72.092	-43.845	1.00 76.32	A16S
ATOM	5685	O4*	G	A	275	130.216	70.692	-43.842	1.00 76.32	A16S
ATOM	5686	C1*	G	A	275	130.610	70.302	-42.539	1.00 76.32	A16S
ATOM	5687	N9	G	A	275	132.057	70.107	-42.583	1.00 79.39	A16S
ATOM	5688	C4	G	A	275	132.903	69.864	-41.522	1.00 79.39	A16S
ATOM	5689	N3	G	A	275	132.541	69.730	-40.227	1.00 79.39	A16S
ATOM	5690	C2	G	A	275	133.582	69.507	-39.444	1.00 79.39	A16S
ATOM	5691	N2	G	A	275	133.409	69.343	-38.127	1.00 79.39	A16S



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ATOM	5692	N1	G	A	275	134.873	69.429	-39.895	1.00	79.39	A16S
ATOM	5693	C6	G	A	275	135.271	69.572	-41.223	1.00	79.39	A16S
ATOM	5694	O6	G	A	275	136.480	69.496	-41.526	1.00	79.39	A16S
ATOM	5695	C5	G	A	275	134.165	69.800	-42.072	1.00	79.39	A16S
ATOM	5696	N7	G	A	275	134.116	69.981	-43.447	1.00	79.39	A16S
ATOM	5697	C8	G	A	275	132.851	70.156	-43.705	1.00	79.39	A16S
ATOM	5698	C2*	G	A	275	130.224	71.439	-41.588	1.00	76.32	A16S
ATOM	5699	O2*	G	A	275	128.930	71.248	-41.066	1.00	76.32	A16S
ATOM	5700	C3*	G	A	275	130.315	72.636	-42.514	1.00	76.32	A16S
ATOM	5701	O3*	G	A	275	129.543	73.753	-42.111	1.00	76.32	A16S
ATOM	5702	P	G	A	276	130.288	75.064	-41.566	1.00	75.55	A16S
ATOM	5703	O1P	G	A	276	129.319	76.189	-41.458	1.00	73.30	A16S
ATOM	5704	O2P	G	A	276	131.522	75.235	-42.375	1.00	73.30	A16S
ATOM	5705	O5*	G	A	276	130.703	74.637	-40.095	1.00	75.55	A16S
ATOM	5706	C5*	G	A	276	129.694	74.252	-39.159	1.00	75.55	A16S
ATOM	5707	C4*	G	A	276	130.322	73.873	-37.854	1.00	75.55	A16S
ATOM	5708	O4*	G	A	276	131.044	72.631	-38.025	1.00	75.55	A16S
ATOM	5709	C1*	G	A	276	132.219	72.654	-37.236	1.00	75.55	A16S
ATOM	5710	N9	G	A	276	133.373	72.585	-38.132	1.00	73.30	A16S
ATOM	5711	C4	G	A	276	134.702	72.518	-37.759	1.00	73.30	A16S
ATOM	5712	N3	G	A	276	135.171	72.477	-36.493	1.00	73.30	A16S
ATOM	5713	C2	G	A	276	136.494	72.459	-36.452	1.00	73.30	A16S
ATOM	5714	N2	G	A	276	137.117	72.436	-35.264	1.00	73.30	A16S
ATOM	5715	N1	G	A	276	137.296	72.470	-37.567	1.00	73.30	A16S
ATOM	5716	C6	G	A	276	136.837	72.505	-38.878	1.00	73.30	A16S
ATOM	5717	O6	G	A	276	137.646	72.513	-39.810	1.00	73.30	A16S
ATOM	5718	C5	G	A	276	135.414	72.531	-38.936	1.00	73.30	A16S
ATOM	5719	N7	G	A	276	134.556	72.576	-40.030	1.00	73.30	A16S
ATOM	5720	C8	G	A	276	133.360	72.604	-39.506	1.00	73.30	A16S
ATOM	5721	C2*	G	A	276	132.195	73.953	-36.425	1.00	75.55	A16S
ATOM	5722	O2*	G	A	276	131.574	73.716	-35.175	1.00	75.55	A16S
ATOM	5723	C3*	G	A	276	131.352	74.851	-37.315	1.00	75.55	A16S
ATOM	5724	O3*	G	A	276	130.762	75.941	-36.610	1.00	75.55	A16S
ATOM	5725	P	C	A	277	131.508	77.371	-36.591	1.00	71.19	A16S
ATOM	5726	O1P	C	A	277	130.764	78.286	-35.676	1.00	67.76	A16S
ATOM	5727	O2P	C	A	277	131.752	77.790	-38.002	1.00	67.76	A16S
ATOM	5728	O5*	C	A	277	132.897	77.021	-35.892	1.00	71.19	A16S
ATOM	5729	C5*	C	A	277	132.904	76.435	-34.579	1.00	71.19	A16S
ATOM	5730	C4*	C	A	277	134.296	76.412	-33.992	1.00	71.19	A16S
ATOM	5731	O4*	C	A	277	135.052	75.270	-34.467	1.00	71.19	A16S
ATOM	5732	C1*	C	A	277	136.430	75.594	-34.474	1.00	71.19	A16S
ATOM	5733	N1	C	A	277	136.917	75.575	-35.864	1.00	67.76	A16S
ATOM	5734	C6	C	A	277	136.048	75.607	-36.918	1.00	67.76	A16S
ATOM	5735	C2	C	A	277	138.300	75.560	-36.093	1.00	67.76	A16S
ATOM	5736	O2	C	A	277	139.075	75.485	-35.118	1.00	67.76	A16S
ATOM	5737	N3	C	A	277	138.756	75.626	-37.365	1.00	67.76	A16S
ATOM	5738	C4	C	A	277	137.893	75.687	-38.380	1.00	67.76	A16S
ATOM	5739	N4	C	A	277	138.384	75.782	-39.612	1.00	67.76	A16S
ATOM	5740	C5	C	A	277	136.490	75.664	-38.178	1.00	67.76	A16S
ATOM	5741	C2*	C	A	277	136.565	77.013	-33.922	1.00	71.19	A16S
ATOM	5742	O2*	C	A	277	136.789	76.968	-32.527	1.00	71.19	A16S
ATOM	5743	C3*	C	A	277	135.205	77.597	-34.252	1.00	71.19	A16S
ATOM	5744	O3*	C	A	277	134.923	78.719	-33.441	1.00	71.19	A16S
ATOM	5745	P	G	A	278	135.314	80.182	-33.969	1.00	64.22	A16S
ATOM	5746	O1P	G	A	278	134.869	81.162	-32.949	1.00	81.29	A16S
ATOM	5747	O2P	G	A	278	134.882	80.336	-35.382	1.00	81.29	A16S
ATOM	5748	O5*	G	A	278	136.900	80.169	-33.929	1.00	64.22	A16S
ATOM	5749	C5*	G	A	278	137.597	80.080	-32.672	1.00	64.22	A16S
ATOM	5750	C4*	G	A	278	139.096	80.174	-32.887	1.00	64.22	A16S
ATOM	5751	O4*	G	A	278	139.557	79.041	-33.670	1.00	64.22	A16S
ATOM	5752	C1*	G	A	278	140.591	79.454	-34.543	1.00	64.22	A16S
ATOM	5753	N9	G	A	278	140.123	79.302	-35.923	1.00	81.29	A16S
ATOM	5754	C4	G	A	278	140.912	79.235	-37.052	1.00	81.29	A16S
ATOM	5755	N3	G	A	278	142.263	79.311	-37.085	1.00	81.29	A16S
ATOM	5756	C2	G	A	278	142.740	79.215	-38.321	1.00	81.29	A16S
ATOM	5757	N2	G	A	278	144.071	79.280	-38.531	1.00	81.29	A16S
ATOM	5758	N1	G	A	278	141.949	79.050	-39.440	1.00	81.29	A16S
ATOM	5759	C6	G	A	278	140.561	78.963	-39.432	1.00	81.29	A16S
ATOM	5760	O6	G	A	278	139.952	78.802	-40.496	1.00	81.29	A16S
ATOM	5761	C5	G	A	278	140.033	79.074	-38.104	1.00	81.29	A16S
ATOM	5762	N7	G	A	278	138.721	79.048	-37.649	1.00	81.29	A16S
ATOM	5763	C8	G	A	278	138.822	79.190	-36.355	1.00	81.29	A16S
ATOM	5764	C2*	G	A	278	140.921	80.901	-34.188	1.00	64.22	A16S
ATOM	5765	O2*	G	A	278	141.887	80.906	-33.157	1.00	64.22	A16S
ATOM	5766	C3*	G	A	278	139.592	81.391	-33.650	1.00	64.22	A16S
ATOM	5767	O3*	G	A	278	139.762	82.527	-32.816	1.00	64.22	A16S
ATOM	5768	P	A	A	279	139.562	83.998	-33.436	1.00	73.53	A16S



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ATOM	5769	O1P	A	A	279	138.686	84.718	-32.498	1.00	75.98	A16S
ATOM	5770	O2P	A	A	279	139.144	83.862	-34.846	1.00	75.98	A16S
ATOM	5771	O5*	A	A	279	141.023	84.643	-33.371	1.00	73.53	A16S
ATOM	5772	C5*	A	A	279	141.431	85.481	-32.255	1.00	73.53	A16S
ATOM	5773	C4*	A	A	279	142.703	86.232	-32.595	1.00	73.53	A16S
ATOM	5774	O4*	A	A	279	143.786	85.276	-32.665	1.00	73.53	A16S
ATOM	5775	C1*	A	A	279	144.645	85.617	-33.728	1.00	73.53	A16S
ATOM	5776	N9	A	A	279	144.825	84.446	-34.570	1.00	75.98	A16S
ATOM	5777	C4	A	A	279	146.034	83.948	-34.946	1.00	75.98	A16S
ATOM	5778	N3	A	A	279	147.231	84.464	-34.657	1.00	75.98	A16S
ATOM	5779	C2	A	A	279	148.187	83.691	-35.143	1.00	75.98	A16S
ATOM	5780	N1	A	A	279	148.078	82.537	-35.831	1.00	75.98	A16S
ATOM	5781	C6	A	A	279	146.846	82.055	-36.099	1.00	75.98	A16S
ATOM	5782	N6	A	A	279	146.731	80.905	-36.762	1.00	75.98	A16S
ATOM	5783	C5	A	A	279	145.763	82.788	-35.654	1.00	75.98	A16S
ATOM	5784	N7	A	A	279	144.401	82.583	-35.765	1.00	75.98	A16S
ATOM	5785	C8	A	A	279	143.885	83.598	-35.112	1.00	75.98	A16S
ATOM	5786	C2*	A	A	279	144.098	86.846	-34.450	1.00	73.53	A16S
ATOM	5787	O2*	A	A	279	144.873	87.964	-34.099	1.00	73.53	A16S
ATOM	5788	C3*	A	A	279	142.654	86.914	-33.960	1.00	73.53	A16S
ATOM	5789	O3*	A	A	279	142.192	88.295	-33.988	1.00	73.53	A16S
ATOM	5790	P	C	A	280	142.219	89.230	-32.660	1.00	69.53	A16S
ATOM	5791	O1P	C	A	280	141.827	90.583	-33.128	1.00	94.22	A16S
ATOM	5792	O2P	C	A	280	143.497	89.057	-31.922	1.00	94.22	A16S
ATOM	5793	O5*	C	A	280	141.045	88.692	-31.729	1.00	69.53	A16S
ATOM	5794	C5*	C	A	280	141.059	88.965	-30.307	1.00	69.53	A16S
ATOM	5795	C4*	C	A	280	139.766	88.514	-29.664	1.00	69.53	A16S
ATOM	5796	O4*	C	A	280	138.682	89.375	-30.098	1.00	69.53	A16S
ATOM	5797	C1*	C	A	280	137.670	88.605	-30.700	1.00	69.53	A16S
ATOM	5798	N1	C	A	280	137.162	89.325	-31.877	1.00	94.22	A16S
ATOM	5799	C6	C	A	280	138.001	90.036	-32.690	1.00	94.22	A16S
ATOM	5800	C2	C	A	280	135.795	89.263	-32.157	1.00	94.22	A16S
ATOM	5801	O2	C	A	280	135.053	88.615	-31.400	1.00	94.22	A16S
ATOM	5802	N3	C	A	280	135.311	89.910	-33.242	1.00	94.22	A16S
ATOM	5803	C4	C	A	280	136.135	90.604	-34.025	1.00	94.22	A16S
ATOM	5804	N4	C	A	280	135.609	91.237	-35.075	1.00	94.22	A16S
ATOM	5805	C5	C	A	280	137.535	90.684	-33.764	1.00	94.22	A16S
ATOM	5806	C2*	C	A	280	138.303	87.275	-31.084	1.00	69.53	A16S
ATOM	5807	O2*	C	A	280	137.303	86.279	-31.103	1.00	69.53	A16S
ATOM	5808	C3*	C	A	280	139.349	87.091	-29.990	1.00	69.53	A16S
ATOM	5809	O3*	C	A	280	138.776	86.507	-28.836	1.00	69.53	A16S
ATOM	5810	P	G	A	281	139.704	85.656	-27.840	1.00	77.90	A16S
ATOM	5811	O1P	G	A	281	138.821	84.767	-27.020	1.00	67.38	A16S
ATOM	5812	O2P	G	A	281	140.615	86.634	-27.165	1.00	67.38	A16S
ATOM	5813	O5*	G	A	281	140.562	84.722	-28.803	1.00	77.90	A16S
ATOM	5814	C5*	G	A	281	140.107	83.414	-29.163	1.00	77.90	A16S
ATOM	5815	C4*	G	A	281	141.287	82.502	-29.300	1.00	77.90	A16S
ATOM	5816	O4*	G	A	281	142.189	83.170	-30.206	1.00	77.90	A16S
ATOM	5817	C1*	G	A	281	143.518	82.967	-29.792	1.00	77.90	A16S
ATOM	5818	N9	G	A	281	144.166	84.265	-29.659	1.00	67.38	A16S
ATOM	5819	C4	G	A	281	145.420	84.612	-30.121	1.00	67.38	A16S
ATOM	5820	N3	G	A	281	146.287	83.803	-30.769	1.00	67.38	A16S
ATOM	5821	C2	G	A	281	147.435	84.417	-31.041	1.00	67.38	A16S
ATOM	5822	N2	G	A	281	148.431	83.754	-31.643	1.00	67.38	A16S
ATOM	5823	N1	G	A	281	147.698	85.723	-30.731	1.00	67.38	A16S
ATOM	5824	C6	G	A	281	146.817	86.581	-30.082	1.00	67.38	A16S
ATOM	5825	O6	G	A	281	147.152	87.747	-29.858	1.00	67.38	A16S
ATOM	5826	C5	G	A	281	145.589	85.931	-29.760	1.00	67.38	A16S
ATOM	5827	N7	G	A	281	144.467	86.407	-29.094	1.00	67.38	A16S
ATOM	5828	C8	G	A	281	143.651	85.386	-29.060	1.00	67.38	A16S
ATOM	5829	C2*	G	A	281	143.512	82.067	-28.554	1.00	77.90	A16S
ATOM	5830	O2*	G	A	281	143.718	80.763	-29.031	1.00	77.90	A16S
ATOM	5831	C3*	G	A	281	142.097	82.250	-28.027	1.00	77.90	A16S
ATOM	5832	O3*	G	A	281	141.482	81.168	-27.251	1.00	77.90	A16S
ATOM	5833	P	A	A	282	142.231	79.736	-26.968	1.00	66.06	A16S
ATOM	5834	O1P	A	A	282	141.585	79.177	-25.757	1.00	67.23	A16S
ATOM	5835	O2P	A	A	282	143.718	79.813	-27.000	1.00	67.23	A16S
ATOM	5836	O5*	A	A	282	141.695	78.791	-28.140	1.00	66.06	A16S
ATOM	5837	C5*	A	A	282	140.271	78.556	-28.279	1.00	66.06	A16S
ATOM	5838	C4*	A	A	282	139.972	77.784	-29.537	1.00	66.06	A16S
ATOM	5839	O4*	A	A	282	140.608	78.474	-30.637	1.00	66.06	A16S
ATOM	5840	C1*	A	A	282	141.188	77.540	-31.524	1.00	66.06	A16S
ATOM	5841	N9	A	A	282	142.644	77.714	-31.449	1.00	67.23	A16S
ATOM	5842	C4	A	A	282	143.604	76.909	-32.010	1.00	67.23	A16S
ATOM	5843	N3	A	A	282	143.410	75.823	-32.769	1.00	67.23	A16S
ATOM	5844	C2	A	A	282	144.571	75.286	-33.119	1.00	67.23	A16S
ATOM	5845	N1	A	A	282	145.814	75.683	-32.821	1.00	67.23	A16S



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ATOM	5846	C6	A	A 282	145.974	76.785	-32.061	1.00	67.23	A16S
ATOM	5847	N6	A	A 282	147.212	77.186	-31.773	1.00	67.23	A16S
ATOM	5848	C5	A	A 282	144.820	77.445	-31.621	1.00	67.23	A16S
ATOM	5849	N7	A	A 282	144.634	78.580	-30.849	1.00	67.23	A16S
ATOM	5850	C8	A	A 282	143.331	78.700	-30.782	1.00	67.23	A16S
ATOM	5851	C2*	A	A 282	140.730	76.150	-31.075	1.00	66.06	A16S
ATOM	5852	O2*	A	A 282	139.543	75.798	-31.762	1.00	66.06	A16S
ATOM	5853	C3*	A	A 282	140.517	76.366	-29.582	1.00	66.06	A16S
ATOM	5854	O3*	A	A 282	139.591	75.422	-29.029	1.00	66.06	A16S
ATOM	5855	P	C	A 283	140.024	74.491	-27.777	1.00	69.70	A16S
ATOM	5856	O1P	C	A 283	138.877	73.586	-27.515	1.00	64.81	A16S
ATOM	5857	O2P	C	A 283	140.533	75.371	-26.682	1.00	64.81	A16S
ATOM	5858	O5*	C	A 283	141.243	73.599	-28.305	1.00	69.70	A16S
ATOM	5859	C5*	C	A 283	141.078	72.641	-29.379	1.00	69.70	A16S
ATOM	5860	C4*	C	A 283	142.432	72.182	-29.902	1.00	69.70	A16S
ATOM	5861	O4*	C	A 283	143.087	73.263	-30.617	1.00	69.70	A16S
ATOM	5862	C1*	C	A 283	144.490	73.216	-30.394	1.00	69.70	A16S
ATOM	5863	N1	C	A 283	144.885	74.445	-29.672	1.00	64.81	A16S
ATOM	5864	C6	C	A 283	143.937	75.300	-29.181	1.00	64.81	A16S
ATOM	5865	C2	C	A 283	146.242	74.717	-29.473	1.00	64.81	A16S
ATOM	5866	O2	C	A 283	147.091	73.949	-29.950	1.00	64.81	A16S
ATOM	5867	N3	C	A 283	146.595	75.814	-28.765	1.00	64.81	A16S
ATOM	5868	C4	C	A 283	145.658	76.625	-28.272	1.00	64.81	A16S
ATOM	5869	N4	C	A 283	146.053	77.681	-27.562	1.00	64.81	A16S
ATOM	5870	C5	C	A 283	144.276	76.387	-28.480	1.00	64.81	A16S
ATOM	5871	C2*	C	A 283	144.773	71.954	-29.581	1.00	69.70	A16S
ATOM	5872	O2*	C	A 283	145.026	70.877	-30.452	1.00	69.70	A16S
ATOM	5873	C3*	C	A 283	143.452	71.754	-28.862	1.00	69.70	A16S
ATOM	5874	O3*	C	A 283	143.293	70.409	-28.469	1.00	69.70	A16S
ATOM	5875	P	G	A 284	143.528	70.013	-26.932	1.00	63.94	A16S
ATOM	5876	O1P	G	A 284	143.322	68.539	-26.844	1.00	79.40	A16S
ATOM	5877	O2P	G	A 284	142.700	70.930	-26.092	1.00	79.40	A16S
ATOM	5878	O5*	G	A 284	145.068	70.335	-26.673	1.00	63.94	A16S
ATOM	5879	C5*	G	A 284	146.079	69.619	-27.395	1.00	63.94	A16S
ATOM	5880	C4*	G	A 284	147.449	70.194	-27.126	1.00	63.94	A16S
ATOM	5881	O4*	G	A 284	147.555	71.533	-27.678	1.00	63.94	A16S
ATOM	5882	C1*	G	A 284	148.444	72.299	-26.880	1.00	63.94	A16S
ATOM	5883	N9	G	A 284	147.718	73.448	-26.340	1.00	79.40	A16S
ATOM	5884	C4	G	A 284	148.259	74.510	-25.645	1.00	79.40	A16S
ATOM	5885	N3	G	A 284	149.563	74.687	-25.353	1.00	79.40	A16S
ATOM	5886	C2	G	A 284	149.772	75.803	-24.682	1.00	79.40	A16S
ATOM	5887	N2	G	A 284	151.009	76.144	-24.336	1.00	79.40	A16S
ATOM	5888	N1	G	A 284	148.783	76.670	-24.307	1.00	79.40	A16S
ATOM	5889	C6	G	A 284	147.431	76.510	-24.590	1.00	79.40	A16S
ATOM	5890	O6	G	A 284	146.611	77.358	-24.203	1.00	79.40	A16S
ATOM	5891	C5	G	A 284	147.191	75.321	-25.327	1.00	79.40	A16S
ATOM	5892	N7	G	A 284	146.006	74.791	-25.817	1.00	79.40	A16S
ATOM	5893	C8	G	A 284	146.366	73.684	-26.409	1.00	79.40	A16S
ATOM	5894	C2*	G	A 284	148.981	71.380	-25.781	1.00	63.94	A16S
ATOM	5895	O2*	G	A 284	150.186	70.784	-26.218	1.00	63.94	A16S
ATOM	5896	C3*	G	A 284	147.877	70.342	-25.675	1.00	63.94	A16S
ATOM	5897	O3*	G	A 284	148.377	69.130	-25.133	1.00	63.94	A16S
ATOM	5898	P	G	A 285	148.124	68.795	-23.578	1.00	76.23	A16S
ATOM	5899	O1P	G	A 285	148.395	67.328	-23.404	1.00	70.48	A16S
ATOM	5900	O2P	G	A 285	146.795	69.340	-23.196	1.00	70.48	A16S
ATOM	5901	O5*	G	A 285	149.240	69.649	-22.816	1.00	76.23	A16S
ATOM	5902	C5*	G	A 285	150.629	69.536	-23.189	1.00	76.23	A16S
ATOM	5903	C4*	G	A 285	151.459	70.622	-22.538	1.00	76.23	A16S
ATOM	5904	O4*	G	A 285	151.248	71.922	-23.155	1.00	76.23	A16S
ATOM	5905	C1*	G	A 285	151.438	72.948	-22.189	1.00	76.23	A16S
ATOM	5906	N9	G	A 285	150.209	73.728	-22.065	1.00	70.48	A16S
ATOM	5907	C4	G	A 285	150.069	74.930	-21.412	1.00	70.48	A16S
ATOM	5908	N3	G	A 285	151.052	75.621	-20.805	1.00	70.48	A16S
ATOM	5909	C2	G	A 285	150.600	76.739	-20.261	1.00	70.48	A16S
ATOM	5910	N2	G	A 285	151.445	77.572	-19.641	1.00	70.48	A16S
ATOM	5911	N1	G	A 285	149.290	77.128	-20.289	1.00	70.48	A16S
ATOM	5912	C6	G	A 285	148.263	76.421	-20.893	1.00	70.48	A16S
ATOM	5913	O6	G	A 285	147.109	76.846	-20.835	1.00	70.48	A16S
ATOM	5914	C5	G	A 285	148.734	75.242	-21.504	1.00	70.48	A16S
ATOM	5915	N7	G	A 285	148.049	74.274	-22.219	1.00	70.48	A16S
ATOM	5916	C8	G	A 285	148.962	73.398	-22.535	1.00	70.48	A16S
ATOM	5917	C2*	G	A 285	151.769	72.268	-20.863	1.00	76.23	A16S
ATOM	5918	O2*	G	A 285	153.163	72.264	-20.677	1.00	76.23	A16S
ATOM	5919	C3*	G	A 285	151.197	70.872	-21.075	1.00	76.23	A16S
ATOM	5920	O3*	G	A 285	151.833	69.914	-20.270	1.00	76.23	A16S
ATOM	5921	P	G	A 286	151.270	69.644	-18.796	1.00	58.54	A16S
ATOM	5922	O1P	G	A 286	152.231	68.706	-18.156	1.00	67.74	A16S



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ATOM	5923	O2P	G	A	286	149.832	69.269	-18.906	1.00	67.74	A16S
ATOM	5924	O5*	G	A	286	151.417	71.059	-18.085	1.00	58.54	A16S
ATOM	5925	C5*	G	A	286	152.712	71.623	-17.930	1.00	58.54	A16S
ATOM	5926	C4*	G	A	286	152.645	72.897	-17.148	1.00	58.54	A16S
ATOM	5927	O4*	G	A	286	152.070	73.964	-17.943	1.00	58.54	A16S
ATOM	5928	C1*	G	A	286	151.376	74.864	-17.097	1.00	58.54	A16S
ATOM	5929	N9	G	A	286	149.974	74.894	-17.513	1.00	67.74	A16S
ATOM	5930	C4	G	A	286	149.029	75.832	-17.170	1.00	67.74	A16S
ATOM	5931	N3	G	A	286	149.232	76.918	-16.402	1.00	67.74	A16S
ATOM	5932	C2	G	A	286	148.123	77.616	-16.237	1.00	67.74	A16S
ATOM	5933	N2	G	A	286	148.146	78.734	-15.508	1.00	67.74	A16S
ATOM	5934	N1	G	A	286	146.911	77.276	-16.779	1.00	67.74	A16S
ATOM	5935	C6	G	A	286	146.680	76.165	-17.578	1.00	67.74	A16S
ATOM	5936	O6	G	A	286	145.549	75.950	-18.027	1.00	67.74	A16S
ATOM	5937	C5	G	A	286	147.859	75.407	-17.764	1.00	67.74	A16S
ATOM	5938	N7	G	A	286	148.065	74.236	-18.477	1.00	67.74	A16S
ATOM	5939	C8	G	A	286	149.332	73.973	-18.307	1.00	67.74	A16S
ATOM	5940	C2*	G	A	286	151.552	74.347	-15.667	1.00	58.54	A16S
ATOM	5941	O2*	G	A	286	152.698	74.944	-15.108	1.00	58.54	A16S
ATOM	5942	C3*	G	A	286	151.804	72.868	-15.898	1.00	58.54	A16S
ATOM	5943	O3*	G	A	286	152.492	72.265	-14.824	1.00	58.54	A16S
ATOM	5944	P	U	A	287	151.648	71.598	-13.633	1.00	69.90	A16S
ATOM	5945	O1P	U	A	287	152.595	71.114	-12.592	1.00	70.29	A16S
ATOM	5946	O2P	U	A	287	150.687	70.641	-14.259	1.00	70.29	A16S
ATOM	5947	O5*	U	A	287	150.841	72.833	-13.026	1.00	69.90	A16S
ATOM	5948	C5*	U	A	287	151.540	73.933	-12.406	1.00	69.90	A16S
ATOM	5949	C4*	U	A	287	150.567	74.992	-11.937	1.00	69.90	A16S
ATOM	5950	O4*	U	A	287	150.012	75.697	-13.072	1.00	69.90	A16S
ATOM	5951	C1*	U	A	287	148.662	76.042	-12.808	1.00	69.90	A16S
ATOM	5952	N1	U	A	287	147.805	75.292	-13.730	1.00	70.29	A16S
ATOM	5953	C6	U	A	287	148.271	74.192	-14.388	1.00	70.29	A16S
ATOM	5954	C2	U	A	287	146.519	75.727	-13.900	1.00	70.29	A16S
ATOM	5955	O2	U	A	287	146.071	76.693	-13.326	1.00	70.29	A16S
ATOM	5956	N3	U	A	287	145.768	74.984	-14.767	1.00	70.29	A16S
ATOM	5957	C4	U	A	287	146.175	73.874	-15.469	1.00	70.29	A16S
ATOM	5958	O4	U	A	287	145.416	73.364	-16.298	1.00	70.29	A16S
ATOM	5959	C5	U	A	287	147.524	73.487	-15.227	1.00	70.29	A16S
ATOM	5960	C2*	U	A	287	148.353	75.628	-11.377	1.00	69.90	A16S
ATOM	5961	O2*	U	A	287	148.606	76.715	-10.515	1.00	69.90	A16S
ATOM	5962	C3*	U	A	287	149.348	74.500	-11.175	1.00	69.90	A16S
ATOM	5963	O3*	U	A	287	149.594	74.263	-9.805	1.00	69.90	A16S
ATOM	5964	P	A	A	288	148.617	73.275	-9.002	1.00	67.57	A16S
ATOM	5965	O1P	A	A	288	149.118	73.257	-7.599	1.00	74.29	A16S
ATOM	5966	O2P	A	A	288	148.459	71.994	-9.745	1.00	74.29	A16S
ATOM	5967	O5*	A	A	288	147.227	74.043	-9.037	1.00	67.57	A16S
ATOM	5968	C5*	A	A	288	147.097	75.313	-8.378	1.00	67.57	A16S
ATOM	5969	C4*	A	A	288	145.674	75.802	-8.446	1.00	67.57	A16S
ATOM	5970	O4*	A	A	288	145.344	76.179	-9.802	1.00	67.57	A16S
ATOM	5971	C1*	A	A	288	143.997	75.865	-10.063	1.00	67.57	A16S
ATOM	5972	N9	A	A	288	143.974	74.875	-11.129	1.00	74.29	A16S
ATOM	5973	C4	A	A	288	142.891	74.562	-11.904	1.00	74.29	A16S
ATOM	5974	N3	A	A	288	141.670	75.121	-11.856	1.00	74.29	A16S
ATOM	5975	C2	A	A	288	140.856	74.528	-12.720	1.00	74.29	A16S
ATOM	5976	N1	A	A	288	141.104	73.512	-13.559	1.00	74.29	A16S
ATOM	5977	C6	A	A	288	142.346	72.979	-13.580	1.00	74.29	A16S
ATOM	5978	N6	A	A	288	142.593	71.959	-14.402	1.00	74.29	A16S
ATOM	5979	C5	A	A	288	143.303	73.528	-12.723	1.00	74.29	A16S
ATOM	5980	N7	A	A	288	144.637	73.227	-12.503	1.00	74.29	A16S
ATOM	5981	C8	A	A	288	144.988	74.053	-11.551	1.00	74.29	A16S
ATOM	5982	C2*	A	A	288	143.390	75.333	-8.767	1.00	67.57	A16S
ATOM	5983	O2*	A	A	288	142.858	76.433	-8.063	1.00	67.57	A16S
ATOM	5984	C3*	A	A	288	144.615	74.794	-8.051	1.00	67.57	A16S
ATOM	5985	O3*	A	A	288	144.473	74.790	-6.641	1.00	67.57	A16S
ATOM	5986	P	G	A	289	143.612	73.640	-5.926	1.00	64.24	A16S
ATOM	5987	O1P	G	A	289	144.242	73.471	-4.594	1.00	69.92	A16S
ATOM	5988	O2P	G	A	289	143.452	72.448	-6.815	1.00	69.92	A16S
ATOM	5989	O5*	G	A	289	142.181	74.330	-5.753	1.00	64.24	A16S
ATOM	5990	C5*	G	A	289	140.977	73.553	-5.744	1.00	64.24	A16S
ATOM	5991	C4*	G	A	289	140.118	73.891	-6.944	1.00	64.24	A16S
ATOM	5992	O4*	G	A	289	139.159	72.820	-7.109	1.00	64.24	A16S
ATOM	5993	C1*	G	A	289	137.865	73.358	-7.290	1.00	64.24	A16S
ATOM	5994	N9	G	A	289	137.173	73.286	-6.002	1.00	69.92	A16S
ATOM	5995	C4	G	A	289	135.860	73.585	-5.773	1.00	69.92	A16S
ATOM	5996	N3	G	A	289	134.981	74.013	-6.697	1.00	69.92	A16S
ATOM	5997	C2	G	A	289	133.787	74.217	-6.182	1.00	69.92	A16S
ATOM	5998	N2	G	A	289	132.792	74.659	-6.976	1.00	69.92	A16S
ATOM	5999	N1	G	A	289	133.480	74.003	-4.856	1.00	69.92	A16S



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ATOM	6000	C6	G	A	289	134.377	73.557	-3.889	1.00	69.92	A16S
ATOM	6001	O6	G	A	289	134.001	73.388	-2.727	1.00	69.92	A16S
ATOM	6002	C5	G	A	289	135.658	73.353	-4.429	1.00	69.92	A16S
ATOM	6003	N7	G	A	289	136.829	72.936	-3.818	1.00	69.92	A16S
ATOM	6004	C8	G	A	289	137.701	72.909	-4.785	1.00	69.92	A16S
ATOM	6005	C2*	G	A	289	138.074	74.803	-7.725	1.00	64.24	A16S
ATOM	6006	O2*	G	A	289	138.300	74.844	-9.121	1.00	64.24	A16S
ATOM	6007	C3*	G	A	289	139.297	75.176	-6.901	1.00	64.24	A16S
ATOM	6008	O3*	G	A	289	139.956	76.287	-7.484	1.00	64.24	A16S
ATOM	6009	P	C	A	290	139.550	77.785	-7.032	1.00	68.22	A16S
ATOM	6010	O1P	C	A	290	140.424	78.736	-7.756	1.00	65.47	A16S
ATOM	6011	O2P	C	A	290	139.504	77.820	-5.547	1.00	65.47	A16S
ATOM	6012	O5*	C	A	290	138.055	77.995	-7.548	1.00	68.22	A16S
ATOM	6013	C5*	C	A	290	137.779	78.435	-8.886	1.00	68.22	A16S
ATOM	6014	C4*	C	A	290	136.343	78.907	-9.003	1.00	68.22	A16S
ATOM	6015	O4*	C	A	290	135.449	77.798	-8.732	1.00	68.22	A16S
ATOM	6016	C1*	C	A	290	134.301	78.264	-8.046	1.00	68.22	A16S
ATOM	6017	N1	C	A	290	134.333	77.748	-6.666	1.00	65.47	A16S
ATOM	6018	C6	C	A	290	135.518	77.490	-6.036	1.00	65.47	A16S
ATOM	6019	C2	C	A	290	133.131	77.562	-5.997	1.00	65.47	A16S
ATOM	6020	O2	C	A	290	132.066	77.757	-6.604	1.00	65.47	A16S
ATOM	6021	N3	C	A	290	133.151	77.172	-4.709	1.00	65.47	A16S
ATOM	6022	C4	C	A	290	134.311	76.954	-4.098	1.00	65.47	A16S
ATOM	6023	N4	C	A	290	134.281	76.598	-2.819	1.00	65.47	A16S
ATOM	6024	C5	C	A	290	135.551	77.098	-4.767	1.00	65.47	A16S
ATOM	6025	C2*	C	A	290	134.387	79.785	-7.996	1.00	68.22	A16S
ATOM	6026	O2*	C	A	290	133.708	80.323	-9.112	1.00	68.22	A16S
ATOM	6027	C3*	C	A	290	135.892	79.997	-8.041	1.00	68.22	A16S
ATOM	6028	O3*	C	A	290	136.222	81.300	-8.483	1.00	68.22	A16S
ATOM	6029	P	C	A	291	136.397	82.476	-7.408	1.00	67.83	A16S
ATOM	6030	O1P	C	A	291	136.718	83.693	-8.178	1.00	74.55	A16S
ATOM	6031	O2P	C	A	291	137.323	82.033	-6.331	1.00	74.55	A16S
ATOM	6032	O5*	C	A	291	134.935	82.641	-6.804	1.00	67.83	A16S
ATOM	6033	C5*	C	A	291	133.851	83.075	-7.644	1.00	67.83	A16S
ATOM	6034	C4*	C	A	291	132.549	83.121	-6.874	1.00	67.83	A16S
ATOM	6035	O4*	C	A	291	132.223	81.790	-6.390	1.00	67.83	A16S
ATOM	6036	C1*	C	A	291	131.518	81.893	-5.165	1.00	67.83	A16S
ATOM	6037	N1	C	A	291	132.306	81.245	-4.104	1.00	74.55	A16S
ATOM	6038	C6	C	A	291	133.615	80.916	-4.294	1.00	74.55	A16S
ATOM	6039	C2	C	A	291	131.689	80.996	-2.871	1.00	74.55	A16S
ATOM	6040	O2	C	A	291	130.481	81.266	-2.738	1.00	74.55	A16S
ATOM	6041	N3	C	A	291	132.416	80.469	-1.859	1.00	74.55	A16S
ATOM	6042	C4	C	A	291	133.702	80.182	-2.049	1.00	74.55	A16S
ATOM	6043	N4	C	A	291	134.391	79.697	-1.017	1.00	74.55	A16S
ATOM	6044	C5	C	A	291	134.343	80.389	-3.303	1.00	74.55	A16S
ATOM	6045	C2*	C	A	291	131.335	83.383	-4.860	1.00	67.83	A16S
ATOM	6046	O2*	C	A	291	130.081	83.835	-5.343	1.00	67.83	A16S
ATOM	6047	C3*	C	A	291	132.494	83.997	-5.629	1.00	67.83	A16S
ATOM	6048	O3*	C	A	291	132.259	85.375	-5.897	1.00	67.83	A16S
ATOM	6049	P	G	A	292	132.541	86.457	-4.740	1.00	69.39	A16S
ATOM	6050	O1P	G	A	292	132.298	87.810	-5.307	1.00	70.25	A16S
ATOM	6051	O2P	G	A	292	133.849	86.159	-4.104	1.00	70.25	A16S
ATOM	6052	O5*	G	A	292	131.412	86.148	-3.659	1.00	69.39	A16S
ATOM	6053	C5*	G	A	292	130.025	86.441	-3.930	1.00	69.39	A16S
ATOM	6054	C4*	G	A	292	129.206	86.303	-2.670	1.00	69.39	A16S
ATOM	6055	O4*	G	A	292	129.309	84.933	-2.209	1.00	69.39	A16S
ATOM	6056	C1*	G	A	292	129.326	84.908	-0.795	1.00	69.39	A16S
ATOM	6057	N9	G	A	292	130.631	84.423	-0.366	1.00	70.25	A16S
ATOM	6058	C4	G	A	292	130.916	83.793	0.820	1.00	70.25	A16S
ATOM	6059	N3	G	A	292	130.025	83.489	1.786	1.00	70.25	A16S
ATOM	6060	C2	G	A	292	130.604	82.925	2.826	1.00	70.25	A16S
ATOM	6061	N2	G	A	292	129.861	82.584	3.894	1.00	70.25	A16S
ATOM	6062	N1	G	A	292	131.956	82.663	2.901	1.00	70.25	A16S
ATOM	6063	C6	G	A	292	132.892	82.971	1.913	1.00	70.25	A16S
ATOM	6064	O6	G	A	292	134.096	82.712	2.087	1.00	70.25	A16S
ATOM	6065	C5	G	A	292	132.280	83.582	0.802	1.00	70.25	A16S
ATOM	6066	N7	G	A	292	132.836	84.052	-0.377	1.00	70.25	A16S
ATOM	6067	C8	G	A	292	131.823	84.535	-1.043	1.00	70.25	A16S
ATOM	6068	C2*	G	A	292	129.129	86.339	-0.301	1.00	69.39	A16S
ATOM	6069	O2*	G	A	292	127.757	86.566	-0.062	1.00	69.39	A16S
ATOM	6070	C3*	G	A	292	129.652	87.145	-1.478	1.00	69.39	A16S
ATOM	6071	O3*	G	A	292	129.104	88.467	-1.483	1.00	69.39	A16S
ATOM	6072	P	G	A	293	129.946	89.687	-0.843	1.00	60.41	A16S
ATOM	6073	O1P	G	A	293	129.062	90.885	-0.800	1.00	79.08	A16S
ATOM	6074	O2P	G	A	293	131.259	89.765	-1.536	1.00	79.08	A16S
ATOM	6075	O5*	G	A	293	130.208	89.225	0.653	1.00	60.41	A16S
ATOM	6076	C5*	G	A	293	131.356	89.682	1.357	1.00	60.41	A16S



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ATOM	6077	C4*	G	A	293	132.084	88.514	1.960	1.00	60.41	A16S
ATOM	6078	O4*	G	A	293	132.373	87.519	0.938	1.00	60.41	A16S
ATOM	6079	C1*	G	A	293	133.664	86.968	1.161	1.00	60.41	A16S
ATOM	6080	N9	G	A	293	134.503	87.278	0.005	1.00	79.08	A16S
ATOM	6081	C4	G	A	293	135.814	86.902	-0.185	1.00	79.08	A16S
ATOM	6082	N3	G	A	293	136.563	86.169	0.667	1.00	79.08	A16S
ATOM	6083	C2	G	A	293	137.789	85.971	0.202	1.00	79.08	A16S
ATOM	6084	N2	G	A	293	138.671	85.252	0.921	1.00	79.08	A16S
ATOM	6085	N1	G	A	293	138.242	86.461	-1.001	1.00	79.08	A16S
ATOM	6086	C6	G	A	293	137.489	87.214	-1.893	1.00	79.08	A16S
ATOM	6087	O6	G	A	293	137.995	87.605	-2.954	1.00	79.08	A16S
ATOM	6088	C5	G	A	293	136.170	87.430	-1.408	1.00	79.08	A16S
ATOM	6089	N7	G	A	293	135.109	88.119	-1.976	1.00	79.08	A16S
ATOM	6090	C8	G	A	293	134.145	88.003	-1.104	1.00	79.08	A16S
ATOM	6091	C2*	G	A	293	134.220	87.586	2.449	1.00	60.41	A16S
ATOM	6092	O2*	G	A	293	133.998	86.718	3.545	1.00	60.41	A16S
ATOM	6093	C3*	G	A	293	133.434	88.886	2.533	1.00	60.41	A16S
ATOM	6094	O3*	G	A	293	133.320	89.380	3.849	1.00	60.41	A16S
ATOM	6095	P	U	A	294	134.281	90.566	4.308	1.00	68.57	A16S
ATOM	6096	O1P	U	A	294	133.992	90.928	5.717	1.00	70.86	A16S
ATOM	6097	O2P	U	A	294	134.221	91.611	3.255	1.00	70.86	A16S
ATOM	6098	O5*	U	A	294	135.711	89.880	4.286	1.00	68.57	A16S
ATOM	6099	C5*	U	A	294	135.971	88.776	5.148	1.00	68.57	A16S
ATOM	6100	C4*	U	A	294	137.398	88.321	5.013	1.00	68.57	A16S
ATOM	6101	O4*	U	A	294	137.592	87.629	3.757	1.00	68.57	A16S
ATOM	6102	C1*	U	A	294	138.899	87.886	3.269	1.00	68.57	A16S
ATOM	6103	N1	U	A	294	138.776	88.534	1.952	1.00	70.86	A16S
ATOM	6104	C6	U	A	294	137.602	89.152	1.581	1.00	70.86	A16S
ATOM	6105	C2	U	A	294	139.873	88.506	1.097	1.00	70.86	A16S
ATOM	6106	O2	U	A	294	140.933	87.966	1.381	1.00	70.86	A16S
ATOM	6107	N3	U	A	294	139.678	89.142	-0.104	1.00	70.86	A16S
ATOM	6108	C4	U	A	294	138.531	89.796	-0.524	1.00	70.86	A16S
ATOM	6109	O4	U	A	294	138.545	90.429	-1.582	1.00	70.86	A16S
ATOM	6110	C5	U	A	294	137.446	89.761	0.410	1.00	70.86	A16S
ATOM	6111	C2*	U	A	294	139.615	88.747	4.312	1.00	68.57	A16S
ATOM	6112	O2*	U	A	294	140.335	87.896	5.185	1.00	68.57	A16S
ATOM	6113	C3*	U	A	294	138.443	89.412	5.018	1.00	68.57	A16S
ATOM	6114	O3*	U	A	294	138.767	89.802	6.332	1.00	68.57	A16S
ATOM	6115	P	C	A	295	139.367	91.264	6.578	1.00	66.00	A16S
ATOM	6116	O1P	C	A	295	139.616	91.436	8.045	1.00	59.96	A16S
ATOM	6117	O2P	C	A	295	138.466	92.223	5.855	1.00	59.96	A16S
ATOM	6118	O5*	C	A	295	140.777	91.230	5.831	1.00	66.00	A16S
ATOM	6119	C5*	C	A	295	141.892	90.512	6.395	1.00	66.00	A16S
ATOM	6120	C4*	C	A	295	143.135	90.710	5.557	1.00	66.00	A16S
ATOM	6121	O4*	C	A	295	142.964	90.085	4.262	1.00	66.00	A16S
ATOM	6122	C1*	C	A	295	143.624	90.846	3.275	1.00	66.00	A16S
ATOM	6123	N1	C	A	295	142.629	91.325	2.315	1.00	59.96	A16S
ATOM	6124	C6	C	A	295	141.298	91.295	2.610	1.00	59.96	A16S
ATOM	6125	C2	C	A	295	143.069	91.824	1.083	1.00	59.96	A16S
ATOM	6126	O2	C	A	295	144.284	91.851	0.847	1.00	59.96	A16S
ATOM	6127	N3	C	A	295	142.162	92.270	0.188	1.00	59.96	A16S
ATOM	6128	C4	C	A	295	140.866	92.237	0.487	1.00	59.96	A16S
ATOM	6129	N4	C	A	295	140.007	92.688	-0.420	1.00	59.96	A16S
ATOM	6130	C5	C	A	295	140.392	91.738	1.736	1.00	59.96	A16S
ATOM	6131	C2*	C	A	295	144.321	92.004	3.974	1.00	66.00	A16S
ATOM	6132	O2*	C	A	295	145.631	91.596	4.279	1.00	66.00	A16S
ATOM	6133	C3*	C	A	295	143.487	92.144	5.231	1.00	66.00	A16S
ATOM	6134	O3*	C	A	295	144.206	92.764	6.270	1.00	66.00	A16S
ATOM	6135	P	U	A	296	143.980	94.330	6.539	1.00	57.06	A16S
ATOM	6136	O1P	U	A	296	144.592	94.645	7.866	1.00	65.48	A16S
ATOM	6137	O2P	U	A	296	142.537	94.641	6.299	1.00	65.48	A16S
ATOM	6138	O5*	U	A	296	144.788	95.039	5.365	1.00	57.06	A16S
ATOM	6139	C5*	U	A	296	146.184	94.793	5.167	1.00	57.06	A16S
ATOM	6140	C4*	U	A	296	146.583	95.212	3.772	1.00	57.06	A16S
ATOM	6141	O4*	U	A	296	145.866	94.411	2.795	1.00	57.06	A16S
ATOM	6142	C1*	U	A	296	145.661	95.167	1.625	1.00	57.06	A16S
ATOM	6143	N1	U	A	296	144.228	95.197	1.338	1.00	65.48	A16S
ATOM	6144	C6	U	A	296	143.302	94.964	2.312	1.00	65.48	A16S
ATOM	6145	C2	U	A	296	143.843	95.501	0.046	1.00	65.48	A16S
ATOM	6146	O2	U	A	296	144.639	95.660	-0.864	1.00	65.48	A16S
ATOM	6147	N3	U	A	296	142.493	95.602	-0.146	1.00	65.48	A16S
ATOM	6148	C4	U	A	296	141.518	95.410	0.790	1.00	65.48	A16S
ATOM	6149	O4	U	A	296	140.344	95.565	0.473	1.00	65.48	A16S
ATOM	6150	C5	U	A	296	141.995	95.056	2.088	1.00	65.48	A16S
ATOM	6151	C2*	U	A	296	146.211	96.573	1.860	1.00	57.06	A16S
ATOM	6152	O2*	U	A	296	147.478	96.657	1.258	1.00	57.06	A16S
ATOM	6153	C3*	U	A	296	146.270	96.647	3.383	1.00	57.06	A16S



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ATOM	6154	O3*	U	A	296	147.288	97.536	3.836	1.00	57.06	A16S
ATOM	6155	P	G	A	297	146.900	99.036	4.259	1.00	48.70	A16S
ATOM	6156	O1P	G	A	297	148.144	99.698	4.739	1.00	77.55	A16S
ATOM	6157	O2P	G	A	297	145.717	98.988	5.146	1.00	77.55	A16S
ATOM	6158	O5*	G	A	297	146.444	99.704	2.894	1.00	48.70	A16S
ATOM	6159	C5*	G	A	297	147.397	99.915	1.856	1.00	48.70	A16S
ATOM	6160	C4*	G	A	297	146.705	100.379	0.613	1.00	48.70	A16S
ATOM	6161	O4*	G	A	297	145.918	99.299	0.061	1.00	48.70	A16S
ATOM	6162	C1*	G	A	297	144.814	99.837	-0.642	1.00	48.70	A16S
ATOM	6163	N9	G	A	297	143.596	99.288	-0.071	1.00	77.55	A16S
ATOM	6164	C4	G	A	297	142.352	99.347	-0.630	1.00	77.55	A16S
ATOM	6165	N3	G	A	297	142.055	99.871	-1.832	1.00	77.55	A16S
ATOM	6166	C2	G	A	297	140.767	99.805	-2.088	1.00	77.55	A16S
ATOM	6167	N2	G	A	297	140.299	100.251	-3.254	1.00	77.55	A16S
ATOM	6168	N1	G	A	297	139.841	99.288	-1.220	1.00	77.55	A16S
ATOM	6169	C6	G	A	297	140.129	98.748	0.029	1.00	77.55	A16S
ATOM	6170	O6	G	A	297	139.211	98.315	0.747	1.00	77.55	A16S
ATOM	6171	C5	G	A	297	141.507	98.787	0.299	1.00	77.55	A16S
ATOM	6172	N7	G	A	297	142.214	98.339	1.400	1.00	77.55	A16S
ATOM	6173	C8	G	A	297	143.452	98.654	1.135	1.00	77.55	A16S
ATOM	6174	C2*	G	A	297	144.857	101.356	-0.473	1.00	48.70	A16S
ATOM	6175	O2*	G	A	297	145.529	101.952	-1.565	1.00	48.70	A16S
ATOM	6176	C3*	G	A	297	145.696	101.497	0.779	1.00	48.70	A16S
ATOM	6177	O3*	G	A	297	146.309	102.759	0.805	1.00	48.70	A16S
ATOM	6178	P	A	A	298	145.804	103.848	1.863	1.00	64.80	A16S
ATOM	6179	O1P	A	A	298	146.732	105.010	1.820	1.00	75.79	A16S
ATOM	6180	O2P	A	A	298	145.608	103.104	3.145	1.00	75.79	A16S
ATOM	6181	O5*	A	A	298	144.388	104.320	1.289	1.00	64.80	A16S
ATOM	6182	C5*	A	A	298	143.444	105.024	2.134	1.00	64.80	A16S
ATOM	6183	C4*	A	A	298	142.497	105.848	1.300	1.00	64.80	A16S
ATOM	6184	O4*	A	A	298	143.211	106.940	0.686	1.00	64.80	A16S
ATOM	6185	C1*	A	A	298	142.748	107.127	-0.638	1.00	64.80	A16S
ATOM	6186	N9	A	A	298	143.887	106.941	-1.547	1.00	75.79	A16S
ATOM	6187	C4	A	A	298	144.030	107.476	-2.805	1.00	75.79	A16S
ATOM	6188	N3	A	A	298	143.143	108.225	-3.475	1.00	75.79	A16S
ATOM	6189	C2	A	A	298	143.633	108.581	-4.662	1.00	75.79	A16S
ATOM	6190	N1	A	A	298	144.825	108.303	-5.212	1.00	75.79	A16S
ATOM	6191	C6	A	A	298	145.698	107.552	-4.511	1.00	75.79	A16S
ATOM	6192	N6	A	A	298	146.892	107.296	-5.052	1.00	75.79	A16S
ATOM	6193	C5	A	A	298	145.290	107.093	-3.240	1.00	75.79	A16S
ATOM	6194	N7	A	A	298	145.914	106.295	-2.293	1.00	75.79	A16S
ATOM	6195	C8	A	A	298	145.042	106.231	-1.312	1.00	75.79	A16S
ATOM	6196	C2*	A	A	298	141.569	106.177	-0.862	1.00	64.80	A16S
ATOM	6197	O2*	A	A	298	140.375	106.868	-0.565	1.00	64.80	A16S
ATOM	6198	C3*	A	A	298	141.850	105.086	0.162	1.00	64.80	A16S
ATOM	6199	O3*	A	A	298	140.652	104.504	0.641	1.00	64.80	A16S
ATOM	6200	P	G	A	299	140.321	102.966	0.315	1.00	62.10	A16S
ATOM	6201	O1P	G	A	299	139.038	102.659	1.024	1.00	69.66	A16S
ATOM	6202	O2P	G	A	299	141.542	102.153	0.617	1.00	69.66	A16S
ATOM	6203	O5*	G	A	299	140.004	102.970	-1.254	1.00	62.10	A16S
ATOM	6204	C5*	G	A	299	138.739	103.473	-1.727	1.00	62.10	A16S
ATOM	6205	C4*	G	A	299	138.890	104.116	-3.080	1.00	62.10	A16S
ATOM	6206	O4*	G	A	299	140.112	104.877	-3.078	1.00	62.10	A16S
ATOM	6207	C1*	G	A	299	140.724	104.794	-4.346	1.00	62.10	A16S
ATOM	6208	N9	G	A	299	142.077	104.281	-4.156	1.00	69.66	A16S
ATOM	6209	C4	G	A	299	143.162	104.521	-4.965	1.00	69.66	A16S
ATOM	6210	N3	G	A	299	143.152	105.224	-6.117	1.00	69.66	A16S
ATOM	6211	C2	G	A	299	144.361	105.336	-6.638	1.00	69.66	A16S
ATOM	6212	N2	G	A	299	144.527	106.014	-7.781	1.00	69.66	A16S
ATOM	6213	N1	G	A	299	145.494	104.795	-6.075	1.00	69.66	A16S
ATOM	6214	C6	G	A	299	145.526	104.062	-4.893	1.00	69.66	A16S
ATOM	6215	O6	G	A	299	146.598	103.620	-4.472	1.00	69.66	A16S
ATOM	6216	C5	G	A	299	144.232	103.935	-4.324	1.00	69.66	A16S
ATOM	6217	N7	G	A	299	143.821	103.299	-3.162	1.00	69.66	A16S
ATOM	6218	C8	G	A	299	142.536	103.518	-3.110	1.00	69.66	A16S
ATOM	6219	C2*	G	A	299	139.816	103.979	-5.267	1.00	62.10	A16S
ATOM	6220	O2*	G	A	299	139.007	104.874	-5.995	1.00	62.10	A16S
ATOM	6221	C3*	G	A	299	139.001	103.172	-4.266	1.00	62.10	A16S
ATOM	6222	O3*	G	A	299	137.703	102.885	-4.785	1.00	62.10	A16S
ATOM	6223	P	A	A	300	137.357	101.399	-5.295	1.00	70.09	A16S
ATOM	6224	O1P	A	A	300	135.931	101.395	-5.694	1.00	66.99	A16S
ATOM	6225	O2P	A	A	300	137.821	100.415	-4.282	1.00	66.99	A16S
ATOM	6226	O5*	A	A	300	138.222	101.246	-6.630	1.00	70.09	A16S
ATOM	6227	C5*	A	A	300	137.785	101.862	-7.867	1.00	70.09	A16S
ATOM	6228	C4*	A	A	300	138.916	101.916	-8.877	1.00	70.09	A16S
ATOM	6229	O4*	A	A	300	139.991	102.734	-8.349	1.00	70.09	A16S
ATOM	6230	C1*	A	A	300	141.239	102.187	-8.734	1.00	70.09	A16S



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ATOM	6231	N9	A	A	300	141.903	101.690	-7.532	1.00	66.99	A16S
ATOM	6232	C4	A	A	300	143.248	101.686	-7.290	1.00	66.99	A16S
ATOM	6233	N3	A	A	300	144.216	102.143	-8.096	1.00	66.99	A16S
ATOM	6234	C2	A	A	300	145.413	101.974	-7.529	1.00	66.99	A16S
ATOM	6235	N1	A	A	300	145.725	101.441	-6.330	1.00	66.99	A16S
ATOM	6236	C6	A	A	300	144.723	100.988	-5.547	1.00	66.99	A16S
ATOM	6237	N6	A	A	300	145.033	100.463	-4.356	1.00	66.99	A16S
ATOM	6238	C5	A	A	300	143.406	101.106	-6.042	1.00	66.99	A16S
ATOM	6239	N7	A	A	300	142.180	100.748	-5.514	1.00	66.99	A16S
ATOM	6240	C8	A	A	300	141.323	101.120	-6.430	1.00	66.99	A16S
ATOM	6241	C2*	A	A	300	140.952	101.038	-9.694	1.00	70.09	A16S
ATOM	6242	O2*	A	A	300	140.870	101.548	-10.999	1.00	70.09	A16S
ATOM	6243	C3*	A	A	300	139.576	100.591	-9.238	1.00	70.09	A16S
ATOM	6244	O3*	A	A	300	138.914	99.918	-10.300	1.00	70.09	A16S
ATOM	6245	P	G	A	301	138.598	98.344	-10.174	1.00	63.55	A16S
ATOM	6246	O1P	G	A	301	138.017	97.937	-11.492	1.00	66.94	A16S
ATOM	6247	O2P	G	A	301	137.805	98.152	-8.923	1.00	66.94	A16S
ATOM	6248	O5*	G	A	301	140.013	97.630	-9.935	1.00	63.55	A16S
ATOM	6249	C5*	G	A	301	141.081	97.745	-10.900	1.00	63.55	A16S
ATOM	6250	C4*	G	A	301	142.450	97.596	-10.244	1.00	63.55	A16S
ATOM	6251	O4*	G	A	301	142.572	98.476	-9.093	1.00	63.55	A16S
ATOM	6252	C1*	G	A	301	143.449	97.899	-8.134	1.00	63.55	A16S
ATOM	6253	N9	G	A	301	142.723	97.690	-6.879	1.00	66.94	A16S
ATOM	6254	C4	G	A	301	143.276	97.357	-5.662	1.00	66.94	A16S
ATOM	6255	N3	G	A	301	144.593	97.208	-5.400	1.00	66.94	A16S
ATOM	6256	C2	G	A	301	144.811	96.845	-4.140	1.00	66.94	A16S
ATOM	6257	N2	G	A	301	146.079	96.664	-3.697	1.00	66.94	A16S
ATOM	6258	N1	G	A	301	143.809	96.634	-3.222	1.00	66.94	A16S
ATOM	6259	C6	G	A	301	142.452	96.781	-3.472	1.00	66.94	A16S
ATOM	6260	O6	G	A	301	141.638	96.554	-2.579	1.00	66.94	A16S
ATOM	6261	C5	G	A	301	142.206	97.186	-4.809	1.00	66.94	A16S
ATOM	6262	N7	G	A	301	141.010	97.445	-5.461	1.00	66.94	A16S
ATOM	6263	C8	G	A	301	141.363	97.744	-6.681	1.00	66.94	A16S
ATOM	6264	C2*	G	A	301	143.954	96.581	-8.720	1.00	63.55	A16S
ATOM	6265	O2*	G	A	301	145.179	96.826	-9.371	1.00	63.55	A16S
ATOM	6266	C3*	G	A	301	142.856	96.231	-9.716	1.00	63.55	A16S
ATOM	6267	O3*	G	A	301	143.384	95.426	-10.758	1.00	63.55	A16S
ATOM	6268	P	G	A	302	143.478	93.829	-10.568	1.00	67.66	A16S
ATOM	6269	O1P	G	A	302	144.033	93.311	-11.858	1.00	62.75	A16S
ATOM	6270	O2P	G	A	302	142.189	93.292	-10.054	1.00	62.75	A16S
ATOM	6271	O5*	G	A	302	144.575	93.635	-9.434	1.00	67.66	A16S
ATOM	6272	C5*	G	A	302	145.949	93.884	-9.717	1.00	67.66	A16S
ATOM	6273	C4*	G	A	302	146.773	93.632	-8.493	1.00	67.66	A16S
ATOM	6274	O4*	G	A	302	146.295	94.486	-7.426	1.00	67.66	A16S
ATOM	6275	C1*	G	A	302	146.382	93.802	-6.188	1.00	67.66	A16S
ATOM	6276	N9	G	A	302	145.029	93.680	-5.650	1.00	62.75	A16S
ATOM	6277	C4	G	A	302	144.673	93.334	-4.362	1.00	62.75	A16S
ATOM	6278	N3	G	A	302	145.517	93.024	-3.356	1.00	62.75	A16S
ATOM	6279	C2	G	A	302	144.868	92.750	-2.240	1.00	62.75	A16S
ATOM	6280	N2	G	A	302	145.542	92.427	-1.145	1.00	62.75	A16S
ATOM	6281	N1	G	A	302	143.511	92.776	-2.119	1.00	62.75	A16S
ATOM	6282	C6	G	A	302	142.629	93.095	-3.140	1.00	62.75	A16S
ATOM	6283	O6	G	A	302	141.420	93.096	-2.927	1.00	62.75	A16S
ATOM	6284	C5	G	A	302	143.300	93.387	-4.338	1.00	62.75	A16S
ATOM	6285	N7	G	A	302	142.797	93.743	-5.580	1.00	62.75	A16S
ATOM	6286	C8	G	A	302	143.855	93.902	-6.327	1.00	62.75	A16S
ATOM	6287	C2*	G	A	302	147.036	92.445	-6.463	1.00	67.66	A16S
ATOM	6288	O2*	G	A	302	148.439	92.544	-6.274	1.00	67.66	A16S
ATOM	6289	C3*	G	A	302	146.680	92.229	-7.924	1.00	67.66	A16S
ATOM	6290	O3*	G	A	302	147.591	91.350	-8.547	1.00	67.66	A16S
ATOM	6291	P	A	A	303	147.188	89.818	-8.740	1.00	77.95	A16S
ATOM	6292	O1P	A	A	303	148.327	89.210	-9.467	1.00	68.83	A16S
ATOM	6293	O2P	A	A	303	145.820	89.764	-9.328	1.00	68.83	A16S
ATOM	6294	O5*	A	A	303	147.139	89.246	-7.253	1.00	77.95	A16S
ATOM	6295	C5*	A	A	303	148.362	89.017	-6.533	1.00	77.95	A16S
ATOM	6296	C4*	A	A	303	148.088	88.557	-5.117	1.00	77.95	A16S
ATOM	6297	O4*	A	A	303	147.502	89.638	-4.350	1.00	77.95	A16S
ATOM	6298	C1*	A	A	303	146.613	89.107	-3.382	1.00	77.95	A16S
ATOM	6299	N9	A	A	303	145.259	89.548	-3.718	1.00	68.83	A16S
ATOM	6300	C4	A	A	303	144.160	89.553	-2.891	1.00	68.83	A16S
ATOM	6301	N3	A	A	303	144.112	89.224	-1.589	1.00	68.83	A16S
ATOM	6302	C2	A	A	303	142.862	89.303	-1.130	1.00	68.83	A16S
ATOM	6303	N1	A	A	303	141.743	89.642	-1.777	1.00	68.83	A16S
ATOM	6304	C6	A	A	303	141.829	89.968	-3.085	1.00	68.83	A16S
ATOM	6305	N6	A	A	303	140.714	90.291	-3.745	1.00	68.83	A16S
ATOM	6306	C5	A	A	303	143.096	89.938	-3.684	1.00	68.83	A16S
ATOM	6307	N7	A	A	303	143.521	90.223	-4.974	1.00	68.83	A16S



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ATOM	6308	C8	A	A	303	144.808	89.986	-4.941	1.00	68.83	A16S
ATOM	6309	C2*	A	A	303	146.701	87.581	-3.472	1.00	77.95	A16S
ATOM	6310	O2*	A	A	303	147.670	87.098	-2.562	1.00	77.95	A16S
ATOM	6311	C3*	A	A	303	147.146	87.377	-4.914	1.00	77.95	A16S
ATOM	6312	O3*	A	A	303	147.795	86.114	-5.062	1.00	77.95	A16S
ATOM	6313	P	U	A	304	146.951	84.837	-5.572	1.00	72.93	A16S
ATOM	6314	O1P	U	A	304	147.912	83.711	-5.711	1.00	81.59	A16S
ATOM	6315	O2P	U	A	304	146.111	85.244	-6.737	1.00	81.59	A16S
ATOM	6316	O5*	U	A	304	145.981	84.486	-4.360	1.00	72.93	A16S
ATOM	6317	C5*	U	A	304	146.512	84.184	-3.067	1.00	72.93	A16S
ATOM	6318	C4*	U	A	304	145.420	84.249	-2.026	1.00	72.93	A16S
ATOM	6319	O4*	U	A	304	144.777	85.545	-2.102	1.00	72.93	A16S
ATOM	6320	C1*	U	A	304	143.426	85.431	-1.697	1.00	72.93	A16S
ATOM	6321	N1	U	A	304	142.544	86.022	-2.723	1.00	81.59	A16S
ATOM	6322	C6	U	A	304	143.006	86.368	-3.976	1.00	81.59	A16S
ATOM	6323	C2	U	A	304	141.212	86.242	-2.379	1.00	81.59	A16S
ATOM	6324	O2	U	A	304	140.742	85.930	-1.301	1.00	81.59	A16S
ATOM	6325	N3	U	A	304	140.450	86.836	-3.347	1.00	81.59	A16S
ATOM	6326	C4	U	A	304	140.851	87.220	-4.606	1.00	81.59	A16S
ATOM	6327	O4	U	A	304	140.046	87.805	-5.345	1.00	81.59	A16S
ATOM	6328	C5	U	A	304	142.226	86.941	-4.904	1.00	81.59	A16S
ATOM	6329	C2*	U	A	304	143.163	83.963	-1.362	1.00	72.93	A16S
ATOM	6330	O2*	U	A	304	143.332	83.797	0.033	1.00	72.93	A16S
ATOM	6331	C3*	U	A	304	144.265	83.263	-2.149	1.00	72.93	A16S
ATOM	6332	O3*	U	A	304	144.575	81.986	-1.589	1.00	72.93	A16S
ATOM	6333	P	G	A	305	143.997	80.645	-2.280	1.00	84.61	A16S
ATOM	6334	O1P	G	A	305	144.804	79.529	-1.715	1.00	78.16	A16S
ATOM	6335	O2P	G	A	305	143.899	80.813	-3.765	1.00	78.16	A16S
ATOM	6336	O5*	G	A	305	142.524	80.523	-1.692	1.00	84.61	A16S
ATOM	6337	C5*	G	A	305	142.315	80.526	-0.275	1.00	84.61	A16S
ATOM	6338	C4*	G	A	305	140.849	80.621	0.031	1.00	84.61	A16S
ATOM	6339	O4*	G	A	305	140.326	81.843	-0.554	1.00	84.61	A16S
ATOM	6340	C1*	G	A	305	139.195	81.543	-1.336	1.00	84.61	A16S
ATOM	6341	N9	G	A	305	139.122	82.478	-2.453	1.00	78.16	A16S
ATOM	6342	C4	G	A	305	138.062	83.301	-2.752	1.00	78.16	A16S
ATOM	6343	N3	G	A	305	136.923	83.416	-2.041	1.00	78.16	A16S
ATOM	6344	C2	G	A	305	136.091	84.278	-2.589	1.00	78.16	A16S
ATOM	6345	N2	G	A	305	134.915	84.524	-2.019	1.00	78.16	A16S
ATOM	6346	N1	G	A	305	136.351	84.967	-3.739	1.00	78.16	A16S
ATOM	6347	C6	G	A	305	137.514	84.863	-4.489	1.00	78.16	A16S
ATOM	6348	O6	G	A	305	137.647	85.533	-5.527	1.00	78.16	A16S
ATOM	6349	C5	G	A	305	138.420	83.950	-3.914	1.00	78.16	A16S
ATOM	6350	N7	G	A	305	139.688	83.566	-4.326	1.00	78.16	A16S
ATOM	6351	C8	G	A	305	140.069	82.698	-3.425	1.00	78.16	A16S
ATOM	6352	C2*	G	A	305	139.348	80.084	-1.748	1.00	84.61	A16S
ATOM	6353	O2*	G	A	305	138.083	79.544	-2.073	1.00	84.61	A16S
ATOM	6354	C3*	G	A	305	139.984	79.483	-0.496	1.00	84.61	A16S
ATOM	6355	O3*	G	A	305	138.966	79.211	0.469	1.00	84.61	A16S
ATOM	6356	P	G	A	306	138.925	77.782	1.215	1.00	98.24	A16S
ATOM	6357	O1P	G	A	306	139.446	76.750	0.264	1.00	122.63	A16S
ATOM	6358	O2P	G	A	306	137.566	77.615	1.814	1.00	122.63	A16S
ATOM	6359	O5*	G	A	306	139.976	77.950	2.402	1.00	98.24	A16S
ATOM	6360	C5*	G	A	306	140.858	76.876	2.752	1.00	98.24	A16S
ATOM	6361	C4*	G	A	306	141.087	76.850	4.240	1.00	98.24	A16S
ATOM	6362	O4*	G	A	306	141.775	78.057	4.636	1.00	98.24	A16S
ATOM	6363	C1*	G	A	306	141.353	78.439	5.926	1.00	98.24	A16S
ATOM	6364	N9	G	A	306	140.834	79.800	5.858	1.00	122.63	A16S
ATOM	6365	C4	G	A	306	140.506	80.593	6.928	1.00	122.63	A16S
ATOM	6366	N3	G	A	306	140.578	80.235	8.230	1.00	122.63	A16S
ATOM	6367	C2	G	A	306	140.181	81.207	9.033	1.00	122.63	A16S
ATOM	6368	N2	G	A	306	140.155	81.004	10.357	1.00	122.63	A16S
ATOM	6369	N1	G	A	306	139.769	82.449	8.594	1.00	122.63	A16S
ATOM	6370	C6	G	A	306	139.697	82.846	7.258	1.00	122.63	A16S
ATOM	6371	O6	G	A	306	139.326	83.996	6.970	1.00	122.63	A16S
ATOM	6372	C5	G	A	306	140.096	81.796	6.383	1.00	122.63	A16S
ATOM	6373	N7	G	A	306	140.150	81.752	4.996	1.00	122.63	A16S
ATOM	6374	C8	G	A	306	140.591	80.551	4.729	1.00	122.63	A16S
ATOM	6375	C2*	G	A	306	140.343	77.402	6.420	1.00	98.24	A16S
ATOM	6376	O2*	G	A	306	141.027	76.470	7.238	1.00	98.24	A16S
ATOM	6377	C3*	G	A	306	139.845	76.799	5.111	1.00	98.24	A16S
ATOM	6378	O3*	G	A	306	139.394	75.453	5.266	1.00	98.24	A16S
ATOM	6379	P	C	A	307	137.810	75.135	5.376	1.00	98.03	A16S
ATOM	6380	O1P	C	A	307	137.083	75.744	4.222	1.00	96.66	A16S
ATOM	6381	O2P	C	A	307	137.699	73.661	5.611	1.00	96.66	A16S
ATOM	6382	O5*	C	A	307	137.351	75.908	6.700	1.00	98.03	A16S
ATOM	6383	C5*	C	A	307	137.826	75.486	8.004	1.00	98.03	A16S
ATOM	6384	C4*	C	A	307	137.279	76.371	9.108	1.00	98.03	A16S



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ATOM	6385	O4*	C	A	307	137.923	77.666	9.097	1.00	98.03	A16S
ATOM	6386	C1*	C	A	307	137.008	78.654	9.532	1.00	98.03	A16S
ATOM	6387	N1	C	A	307	136.824	79.616	8.443	1.00	96.66	A16S
ATOM	6388	C6	C	A	307	137.007	79.243	7.141	1.00	96.66	A16S
ATOM	6389	C2	C	A	307	136.454	80.916	8.756	1.00	96.66	A16S
ATOM	6390	O2	C	A	307	136.309	81.226	9.946	1.00	96.66	A16S
ATOM	6391	N3	C	A	307	136.265	81.806	7.759	1.00	96.66	A16S
ATOM	6392	C4	C	A	307	136.448	81.434	6.491	1.00	96.66	A16S
ATOM	6393	N4	C	A	307	136.260	82.344	5.533	1.00	96.66	A16S
ATOM	6394	C5	C	A	307	136.834	80.111	6.144	1.00	96.66	A16S
ATOM	6395	C2*	C	A	307	135.698	77.956	9.896	1.00	98.03	A16S
ATOM	6396	O2*	C	A	307	135.665	77.711	11.288	1.00	98.03	A16S
ATOM	6397	C3*	C	A	307	135.796	76.681	9.074	1.00	98.03	A16S
ATOM	6398	O3*	C	A	307	135.036	75.640	9.642	1.00	98.03	A16S
ATOM	6399	P	C	A	308	133.713	75.149	8.891	1.00	76.20	A16S
ATOM	6400	O1P	C	A	308	133.076	74.104	9.743	1.00	82.80	A16S
ATOM	6401	O2P	C	A	308	134.104	74.814	7.488	1.00	82.80	A16S
ATOM	6402	O5*	C	A	308	132.793	76.456	8.872	1.00	76.20	A16S
ATOM	6403	C5*	C	A	308	132.110	76.904	10.062	1.00	76.20	A16S
ATOM	6404	C4*	C	A	308	131.121	78.000	9.729	1.00	76.20	A16S
ATOM	6405	O4*	C	A	308	131.835	79.218	9.404	1.00	76.20	A16S
ATOM	6406	C1*	C	A	308	131.126	79.932	8.404	1.00	76.20	A16S
ATOM	6407	N1	C	A	308	131.979	80.023	7.206	1.00	82.80	A16S
ATOM	6408	C6	C	A	308	132.940	79.084	6.963	1.00	82.80	A16S
ATOM	6409	C2	C	A	308	131.781	81.076	6.305	1.00	82.80	A16S
ATOM	6410	O2	C	A	308	130.907	81.930	6.548	1.00	82.80	A16S
ATOM	6411	N3	C	A	308	132.543	81.137	5.192	1.00	82.80	A16S
ATOM	6412	C4	C	A	308	133.465	80.205	4.962	1.00	82.80	A16S
ATOM	6413	N4	C	A	308	134.183	80.299	3.848	1.00	82.80	A16S
ATOM	6414	C5	C	A	308	133.692	79.135	5.862	1.00	82.80	A16S
ATOM	6415	C2*	C	A	308	129.838	79.163	8.104	1.00	76.20	A16S
ATOM	6416	O2*	C	A	308	128.772	79.676	8.870	1.00	76.20	A16S
ATOM	6417	C3*	C	A	308	130.214	77.757	8.532	1.00	76.20	A16S
ATOM	6418	O3*	C	A	308	129.062	76.997	8.844	1.00	76.20	A16S
ATOM	6419	P	G	A	309	128.535	75.901	7.788	1.00	64.43	A16S
ATOM	6420	O1P	G	A	309	127.553	75.034	8.518	1.00	77.88	A16S
ATOM	6421	O2P	G	A	309	129.722	75.269	7.131	1.00	77.88	A16S
ATOM	6422	O5*	G	A	309	127.774	76.756	6.675	1.00	64.43	A16S
ATOM	6423	C5*	G	A	309	126.518	77.385	6.962	1.00	64.43	A16S
ATOM	6424	C4*	G	A	309	126.080	78.219	5.789	1.00	64.43	A16S
ATOM	6425	O4*	G	A	309	126.994	79.330	5.625	1.00	64.43	A16S
ATOM	6426	C1*	G	A	309	127.190	79.593	4.249	1.00	64.43	A16S
ATOM	6427	N9	G	A	309	128.601	79.372	3.941	1.00	77.88	A16S
ATOM	6428	C4	G	A	309	129.235	79.691	2.765	1.00	77.88	A16S
ATOM	6429	N3	G	A	309	128.675	80.312	1.709	1.00	77.88	A16S
ATOM	6430	C2	G	A	309	129.537	80.496	0.726	1.00	77.88	A16S
ATOM	6431	N2	G	A	309	129.146	81.151	-0.377	1.00	77.88	A16S
ATOM	6432	N1	G	A	309	130.840	80.065	0.760	1.00	77.88	A16S
ATOM	6433	C6	G	A	309	131.434	79.405	1.831	1.00	77.88	A16S
ATOM	6434	O6	G	A	309	132.614	79.036	1.752	1.00	77.88	A16S
ATOM	6435	C5	G	A	309	130.526	79.242	2.911	1.00	77.88	A16S
ATOM	6436	N7	G	A	309	130.712	78.681	4.167	1.00	77.88	A16S
ATOM	6437	C8	G	A	309	129.546	78.782	4.742	1.00	77.88	A16S
ATOM	6438	C2*	G	A	309	126.284	78.646	3.465	1.00	64.43	A16S
ATOM	6439	O2*	G	A	309	125.075	79.302	3.173	1.00	64.43	A16S
ATOM	6440	C3*	G	A	309	126.111	77.505	4.455	1.00	64.43	A16S
ATOM	6441	O3*	G	A	309	124.932	76.758	4.234	1.00	64.43	A16S
ATOM	6442	P	G	A	310	124.957	75.563	3.171	1.00	65.26	A16S
ATOM	6443	O1P	G	A	310	123.626	74.901	3.122	1.00	69.45	A16S
ATOM	6444	O2P	G	A	310	126.174	74.754	3.452	1.00	69.45	A16S
ATOM	6445	O5*	G	A	310	125.147	76.329	1.796	1.00	65.26	A16S
ATOM	6446	C5*	G	A	310	124.090	77.132	1.300	1.00	65.26	A16S
ATOM	6447	C4*	G	A	310	124.358	77.511	-0.116	1.00	65.26	A16S
ATOM	6448	O4*	G	A	310	125.446	78.456	-0.153	1.00	65.26	A16S
ATOM	6449	C1*	G	A	310	126.174	78.286	-1.355	1.00	65.26	A16S
ATOM	6450	N9	G	A	310	127.557	77.955	-1.024	1.00	69.45	A16S
ATOM	6451	C4	G	A	310	128.596	77.868	-1.922	1.00	69.45	A16S
ATOM	6452	N3	G	A	310	128.514	78.103	-3.253	1.00	69.45	A16S
ATOM	6453	C2	G	A	310	129.668	77.917	-3.858	1.00	69.45	A16S
ATOM	6454	N2	G	A	310	129.756	78.111	-5.180	1.00	69.45	A16S
ATOM	6455	N1	G	A	310	130.815	77.527	-3.206	1.00	69.45	A16S
ATOM	6456	C6	G	A	310	130.918	77.279	-1.839	1.00	69.45	A16S
ATOM	6457	O6	G	A	310	131.991	76.917	-1.357	1.00	69.45	A16S
ATOM	6458	C5	G	A	310	129.690	77.485	-1.181	1.00	69.45	A16S
ATOM	6459	N7	G	A	310	129.358	77.361	0.160	1.00	69.45	A16S
ATOM	6460	C8	G	A	310	128.084	77.650	0.208	1.00	69.45	A16S
ATOM	6461	C2*	G	A	310	125.513	77.148	-2.135	1.00	65.26	A16S



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ATOM	6462	O2*	G	A	310	124.593	77.642	-3.100	1.00	65.26	A16S
ATOM	6463	C3*	G	A	310	124.827	76.391	-1.017	1.00	65.26	A16S
ATOM	6464	O3*	G	A	310	123.788	75.583	-1.499	1.00	65.26	A16S
ATOM	6465	P	C	A	311	124.059	74.018	-1.712	1.00	65.49	A16S
ATOM	6466	O1P	C	A	311	122.714	73.415	-1.990	1.00	57.75	A16S
ATOM	6467	O2P	C	A	311	124.910	73.518	-0.574	1.00	57.75	A16S
ATOM	6468	O5*	C	A	311	124.901	73.938	-3.056	1.00	65.49	A16S
ATOM	6469	C5*	C	A	311	124.327	74.424	-4.268	1.00	65.49	A16S
ATOM	6470	C4*	C	A	311	125.365	74.533	-5.345	1.00	65.49	A16S
ATOM	6471	O4*	C	A	311	126.353	75.538	-5.008	1.00	65.49	A16S
ATOM	6472	C1*	C	A	311	127.609	75.157	-5.537	1.00	65.49	A16S
ATOM	6473	N1	C	A	311	128.529	74.874	-4.427	1.00	57.75	A16S
ATOM	6474	C6	C	A	311	128.080	74.789	-3.143	1.00	57.75	A16S
ATOM	6475	C2	C	A	311	129.884	74.672	-4.713	1.00	57.75	A16S
ATOM	6476	O2	C	A	311	130.268	74.757	-5.887	1.00	57.75	A16S
ATOM	6477	N3	C	A	311	130.739	74.386	-3.708	1.00	57.75	A16S
ATOM	6478	C4	C	A	311	130.288	74.301	-2.463	1.00	57.75	A16S
ATOM	6479	N4	C	A	311	131.161	74.021	-1.505	1.00	57.75	A16S
ATOM	6480	C5	C	A	311	128.917	74.505	-2.142	1.00	57.75	A16S
ATOM	6481	C2*	C	A	311	127.379	73.882	-6.336	1.00	65.49	A16S
ATOM	6482	O2*	C	A	311	127.036	74.263	-7.656	1.00	65.49	A16S
ATOM	6483	C3*	C	A	311	126.188	73.293	-5.607	1.00	65.49	A16S
ATOM	6484	O3*	C	A	311	125.484	72.348	-6.387	1.00	65.49	A16S
ATOM	6485	P	C	A	312	125.766	70.779	-6.166	1.00	69.23	A16S
ATOM	6486	O1P	C	A	312	124.642	70.025	-6.822	1.00	52.68	A16S
ATOM	6487	O2P	C	A	312	126.066	70.571	-4.713	1.00	52.68	A16S
ATOM	6488	O5*	C	A	312	127.114	70.515	-6.969	1.00	69.23	A16S
ATOM	6489	C5*	C	A	312	127.232	70.896	-8.349	1.00	69.23	A16S
ATOM	6490	C4*	C	A	312	128.679	70.876	-8.771	1.00	69.23	A16S
ATOM	6491	O4*	C	A	312	129.432	71.850	-8.000	1.00	69.23	A16S
ATOM	6492	C1*	C	A	312	130.723	71.346	-7.737	1.00	69.23	A16S
ATOM	6493	N1	C	A	312	130.857	71.159	-6.294	1.00	52.68	A16S
ATOM	6494	C6	C	A	312	129.764	71.151	-5.473	1.00	52.68	A16S
ATOM	6495	C2	C	A	312	132.134	70.984	-5.770	1.00	52.68	A16S
ATOM	6496	O2	C	A	312	133.100	70.979	-6.554	1.00	52.68	A16S
ATOM	6497	N3	C	A	312	132.286	70.820	-4.431	1.00	52.68	A16S
ATOM	6498	N4	C	A	312	131.211	70.822	-3.638	1.00	52.68	A16S
ATOM	6499	C4	C	A	312	131.397	70.660	-2.334	1.00	52.68	A16S
ATOM	6500	C5	C	A	312	129.894	70.990	-4.152	1.00	52.68	A16S
ATOM	6501	C2*	C	A	312	130.860	70.008	-8.454	1.00	69.23	A16S
ATOM	6502	O2*	C	A	312	131.446	70.267	-9.712	1.00	69.23	A16S
ATOM	6503	C3*	C	A	312	129.407	69.564	-8.538	1.00	69.23	A16S
ATOM	6504	O3*	C	A	312	129.159	68.655	-9.597	1.00	69.23	A16S
ATOM	6505	P	A	A	313	129.116	67.081	-9.293	1.00	61.31	A16S
ATOM	6506	O1P	A	A	313	128.621	66.382	-10.518	1.00	48.89	A16S
ATOM	6507	O2P	A	A	313	128.407	66.886	-8.001	1.00	48.89	A16S
ATOM	6508	O5*	A	A	313	130.647	66.703	-9.072	1.00	61.31	A16S
ATOM	6509	C5*	A	A	313	131.597	66.807	-10.144	1.00	61.31	A16S
ATOM	6510	C4*	A	A	313	132.964	66.473	-9.631	1.00	61.31	A16S
ATOM	6511	O4*	A	A	313	133.371	67.491	-8.684	1.00	61.31	A16S
ATOM	6512	C1*	A	A	313	134.027	66.888	-7.583	1.00	61.31	A16S
ATOM	6513	N9	A	A	313	133.201	67.111	-6.404	1.00	48.89	A16S
ATOM	6514	C4	A	A	313	133.598	67.028	-5.094	1.00	48.89	A16S
ATOM	6515	N3	A	A	313	134.817	66.725	-4.632	1.00	48.89	A16S
ATOM	6516	C2	A	A	313	134.835	66.767	-3.306	1.00	48.89	A16S
ATOM	6517	N1	A	A	313	133.851	67.046	-2.456	1.00	48.89	A16S
ATOM	6518	C6	A	A	313	132.639	67.336	-2.950	1.00	48.89	A16S
ATOM	6519	N6	A	A	313	131.655	67.602	-2.096	1.00	48.89	A16S
ATOM	6520	C5	A	A	313	132.485	67.336	-4.341	1.00	48.89	A16S
ATOM	6521	N7	A	A	313	131.397	67.601	-5.163	1.00	48.89	A16S
ATOM	6522	C8	A	A	313	131.872	67.452	-6.373	1.00	48.89	A16S
ATOM	6523	C2*	A	A	313	134.171	65.400	-7.884	1.00	61.31	A16S
ATOM	6524	O2*	A	A	313	135.446	65.178	-8.454	1.00	61.31	A16S
ATOM	6525	C3*	A	A	313	133.011	65.174	-8.847	1.00	61.31	A16S
ATOM	6526	O3*	A	A	313	133.185	64.055	-9.711	1.00	61.31	A16S
ATOM	6527	P	C	A	314	132.637	62.610	-9.260	1.00	69.18	A16S
ATOM	6528	O1P	C	A	314	132.736	61.698	-10.438	1.00	52.88	A16S
ATOM	6529	O2P	C	A	314	131.319	62.787	-8.561	1.00	52.88	A16S
ATOM	6530	O5*	C	A	314	133.708	62.137	-8.187	1.00	69.18	A16S
ATOM	6531	C5*	C	A	314	135.061	61.938	-8.571	1.00	69.18	A16S
ATOM	6532	C4*	C	A	314	135.933	61.848	-7.352	1.00	69.18	A16S
ATOM	6533	O4*	C	A	314	135.811	63.072	-6.590	1.00	69.18	A16S
ATOM	6534	C1*	C	A	314	135.991	62.793	-5.217	1.00	69.18	A16S
ATOM	6535	N1	C	A	314	134.785	63.201	-4.500	1.00	52.88	A16S
ATOM	6536	C6	C	A	314	133.590	63.316	-5.151	1.00	52.88	A16S
ATOM	6537	C2	C	A	314	134.873	63.462	-3.124	1.00	52.88	A16S
ATOM	6538	O2	C	A	314	135.976	63.366	-2.563	1.00	52.88	A16S



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ATOM	6539	N3	C	A	314	133.759	63.813	-2.446	1.00	52.88	A16S
ATOM	6540	C4	C	A	314	132.594	63.915	-3.092	1.00	52.88	A16S
ATOM	6541	N4	C	A	314	131.517	64.261	-2.390	1.00	52.88	A16S
ATOM	6542	C5	C	A	314	132.480	63.667	-4.493	1.00	52.88	A16S
ATOM	6543	C2*	C	A	314	136.250	61.294	-5.068	1.00	69.18	A16S
ATOM	6544	O2*	C	A	314	137.651	61.099	-4.989	1.00	69.18	A16S
ATOM	6545	C3*	C	A	314	135.628	60.743	-6.348	1.00	69.18	A16S
ATOM	6546	O3*	C	A	314	136.216	59.500	-6.740	1.00	69.18	A16S
ATOM	6547	P	A	A	315	135.535	58.119	-6.291	1.00	73.60	A16S
ATOM	6548	O1P	A	A	315	136.210	57.028	-7.079	1.00	72.26	A16S
ATOM	6549	O2P	A	A	315	134.063	58.276	-6.364	1.00	72.26	A16S
ATOM	6550	O5*	A	A	315	135.928	57.975	-4.757	1.00	73.60	A16S
ATOM	6551	C5*	A	A	315	137.304	58.035	-4.359	1.00	73.60	A16S
ATOM	6552	C4*	A	A	315	137.425	57.817	-2.873	1.00	73.60	A16S
ATOM	6553	O4*	A	A	315	136.664	58.845	-2.193	1.00	73.60	A16S
ATOM	6554	C1*	A	A	315	135.693	58.245	-1.373	1.00	73.60	A16S
ATOM	6555	N9	A	A	315	134.516	59.110	-1.339	1.00	72.26	A16S
ATOM	6556	C4	A	A	315	134.145	59.842	-0.241	1.00	72.26	A16S
ATOM	6557	N3	A	A	315	134.776	59.896	0.947	1.00	72.26	A16S
ATOM	6558	C2	A	A	315	134.130	60.703	1.778	1.00	72.26	A16S
ATOM	6559	N1	A	A	315	133.007	61.414	1.572	1.00	72.26	A16S
ATOM	6560	C6	A	A	315	132.405	61.335	0.367	1.00	72.26	A16S
ATOM	6561	N6	A	A	315	131.296	62.040	0.165	1.00	72.26	A16S
ATOM	6562	C5	A	A	315	132.991	60.508	-0.604	1.00	72.26	A16S
ATOM	6563	N7	A	A	315	132.641	60.207	-1.912	1.00	72.26	A16S
ATOM	6564	C8	A	A	315	133.576	59.377	-2.305	1.00	72.26	A16S
ATOM	6565	C2*	A	A	315	135.481	56.830	-1.911	1.00	73.60	A16S
ATOM	6566	O2*	A	A	315	134.999	55.958	-0.908	1.00	73.60	A16S
ATOM	6567	C3*	A	A	315	136.892	56.479	-2.372	1.00	73.60	A16S
ATOM	6568	O3*	A	A	315	137.696	56.061	-1.253	1.00	73.60	A16S
ATOM	6569	P	G	A	316	138.116	54.515	-1.088	1.00	80.76	A16S
ATOM	6570	O1P	G	A	316	137.297	53.726	-2.055	1.00	77.80	A16S
ATOM	6571	O2P	G	A	316	138.082	54.180	0.361	1.00	77.80	A16S
ATOM	6572	O5*	G	A	316	139.632	54.458	-1.564	1.00	80.76	A16S
ATOM	6573	C5*	G	A	316	140.618	55.356	-1.032	1.00	80.76	A16S
ATOM	6574	C4*	G	A	316	141.911	55.192	-1.792	1.00	80.76	A16S
ATOM	6575	O4*	G	A	316	142.491	53.902	-1.467	1.00	80.76	A16S
ATOM	6576	C1*	G	A	316	143.065	53.320	-2.628	1.00	80.76	A16S
ATOM	6577	N9	G	A	316	142.353	52.073	-2.916	1.00	77.80	A16S
ATOM	6578	C4	G	A	316	142.646	51.162	-3.910	1.00	77.80	A16S
ATOM	6579	N3	G	A	316	143.676	51.235	-4.781	1.00	77.80	A16S
ATOM	6580	C2	G	A	316	143.673	50.223	-5.633	1.00	77.80	A16S
ATOM	6581	N2	G	A	316	144.626	50.135	-6.567	1.00	77.80	A16S
ATOM	6582	N1	G	A	316	142.734	49.226	-5.633	1.00	77.80	A16S
ATOM	6583	C6	G	A	316	141.666	49.133	-4.747	1.00	77.80	A16S
ATOM	6584	O6	G	A	316	140.865	48.193	-4.839	1.00	77.80	A16S
ATOM	6585	C5	G	A	316	141.661	50.202	-3.824	1.00	77.80	A16S
ATOM	6586	N7	G	A	316	140.791	50.477	-2.780	1.00	77.80	A16S
ATOM	6587	C8	G	A	316	141.242	51.588	-2.267	1.00	77.80	A16S
ATOM	6588	C2*	G	A	316	142.956	54.346	-3.759	1.00	80.76	A16S
ATOM	6589	O2*	G	A	316	144.157	55.092	-3.818	1.00	80.76	A16S
ATOM	6590	C3*	G	A	316	141.762	55.181	-3.309	1.00	80.76	A16S
ATOM	6591	O3*	G	A	316	141.780	56.501	-3.847	1.00	80.76	A16S
ATOM	6592	P	G	A	317	141.024	56.809	-5.234	1.00	75.22	A16S
ATOM	6593	O1P	G	A	317	141.131	58.284	-5.461	1.00	77.51	A16S
ATOM	6594	O2P	G	A	317	139.681	56.153	-5.228	1.00	77.51	A16S
ATOM	6595	O5*	G	A	317	141.903	56.061	-6.325	1.00	75.22	A16S
ATOM	6596	C5*	G	A	317	143.127	56.627	-6.798	1.00	75.22	A16S
ATOM	6597	C4*	G	A	317	143.567	55.912	-8.048	1.00	75.22	A16S
ATOM	6598	O4*	G	A	317	144.039	54.576	-7.720	1.00	75.22	A16S
ATOM	6599	C1*	G	A	317	143.621	53.662	-8.724	1.00	75.22	A16S
ATOM	6600	N9	G	A	317	142.688	52.709	-8.123	1.00	77.51	A16S
ATOM	6601	C4	G	A	317	142.153	51.592	-8.723	1.00	77.51	A16S
ATOM	6602	N3	G	A	317	142.417	51.159	-9.971	1.00	77.51	A16S
ATOM	6603	C2	G	A	317	141.739	50.069	-10.266	1.00	77.51	A16S
ATOM	6604	N2	G	A	317	141.894	49.502	-11.455	1.00	77.51	A16S
ATOM	6605	N1	G	A	317	140.860	49.456	-9.413	1.00	77.51	A16S
ATOM	6606	C6	G	A	317	140.563	49.891	-8.125	1.00	77.51	A16S
ATOM	6607	O6	G	A	317	139.735	49.279	-7.437	1.00	77.51	A16S
ATOM	6608	C5	G	A	317	141.297	51.050	-7.789	1.00	77.51	A16S
ATOM	6609	N7	G	A	317	141.308	51.792	-6.620	1.00	77.51	A16S
ATOM	6610	C8	G	A	317	142.148	52.762	-6.861	1.00	77.51	A16S
ATOM	6611	C2*	G	A	317	142.948	54.479	-9.829	1.00	75.22	A16S
ATOM	6612	O2*	G	A	317	143.921	54.826	-10.786	1.00	75.22	A16S
ATOM	6613	C3*	G	A	317	142.455	55.694	-9.058	1.00	75.22	A16S
ATOM	6614	O3*	G	A	317	142.254	56.834	-9.880	1.00	75.22	A16S
ATOM	6615	P	G	A	318	140.780	57.160	-10.439	1.00	88.22	A16S



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ATOM	6616	O1P	G	A	318	140.886	58.420	-11.228	1.00	90.25	A16S
ATOM	6617	O2P	G	A	318	139.804	57.075	-9.310	1.00	90.25	A16S
ATOM	6618	O5*	G	A	318	140.484	55.973	-11.465	1.00	88.22	A16S
ATOM	6619	C5*	G	A	318	141.225	55.885	-12.691	1.00	88.22	A16S
ATOM	6620	C4*	G	A	318	140.834	54.661	-13.482	1.00	88.22	A16S
ATOM	6621	O4*	G	A	318	141.226	53.454	-12.779	1.00	88.22	A16S
ATOM	6622	C1*	G	A	318	140.331	52.408	-13.115	1.00	88.22	A16S
ATOM	6623	N9	G	A	318	139.649	51.963	-11.908	1.00	90.25	A16S
ATOM	6624	C4	G	A	318	138.881	50.830	-11.789	1.00	90.25	A16S
ATOM	6625	N3	G	A	318	138.681	49.908	-12.752	1.00	90.25	A16S
ATOM	6626	C2	G	A	318	137.878	48.944	-12.353	1.00	90.25	A16S
ATOM	6627	N2	G	A	318	137.596	47.942	-13.191	1.00	90.25	A16S
ATOM	6628	N1	G	A	318	137.302	48.893	-11.104	1.00	90.25	A16S
ATOM	6629	C6	G	A	318	137.494	49.837	-10.097	1.00	90.25	A16S
ATOM	6630	O6	G	A	318	136.922	49.709	-9.007	1.00	90.25	A16S
ATOM	6631	C5	G	A	318	138.368	50.868	-10.514	1.00	90.25	A16S
ATOM	6632	N7	G	A	318	138.833	51.982	-9.831	1.00	90.25	A16S
ATOM	6633	C8	G	A	318	139.596	52.596	-10.694	1.00	90.25	A16S
ATOM	6634	C2*	G	A	318	139.301	52.974	-14.095	1.00	88.22	A16S
ATOM	6635	O2*	G	A	318	139.681	52.696	-15.426	1.00	88.22	A16S
ATOM	6636	C3*	G	A	318	139.360	54.458	-13.775	1.00	88.22	A16S
ATOM	6637	O3*	G	A	318	138.897	55.231	-14.862	1.00	88.22	A16S
ATOM	6638	P	G	A	319	137.382	55.770	-14.854	1.00	81.98	A16S
ATOM	6639	O1P	G	A	319	137.306	56.803	-15.919	1.00	91.46	A16S
ATOM	6640	O2P	G	A	319	137.016	56.127	-13.459	1.00	91.46	A16S
ATOM	6641	O5*	G	A	319	136.494	54.522	-15.300	1.00	81.98	A16S
ATOM	6642	C5*	G	A	319	136.584	54.030	-16.637	1.00	81.98	A16S
ATOM	6643	C4*	G	A	319	136.012	52.637	-16.744	1.00	81.98	A16S
ATOM	6644	O4*	G	A	319	136.643	51.742	-15.782	1.00	81.98	A16S
ATOM	6645	C1*	G	A	319	135.720	50.731	-15.389	1.00	81.98	A16S
ATOM	6646	N9	G	A	319	135.425	50.885	-13.963	1.00	91.46	A16S
ATOM	6647	C4	G	A	319	134.742	49.993	-13.164	1.00	91.46	A16S
ATOM	6648	N3	G	A	319	134.264	48.794	-13.545	1.00	91.46	A16S
ATOM	6649	C2	G	A	319	133.645	48.176	-12.554	1.00	91.46	A16S
ATOM	6650	N2	G	A	319	133.130	46.956	-12.746	1.00	91.46	A16S
ATOM	6651	N1	G	A	319	133.489	48.703	-11.303	1.00	91.46	A16S
ATOM	6652	C6	G	A	319	133.960	49.939	-10.896	1.00	91.46	A16S
ATOM	6653	O6	G	A	319	133.741	50.328	-9.751	1.00	91.46	A16S
ATOM	6654	C5	G	A	319	134.648	50.602	-11.932	1.00	91.46	A16S
ATOM	6655	N7	G	A	319	135.282	51.834	-11.941	1.00	91.46	A16S
ATOM	6656	C8	G	A	319	135.733	51.959	-13.160	1.00	91.46	A16S
ATOM	6657	C2*	G	A	319	134.453	50.965	-16.208	1.00	81.98	A16S
ATOM	6658	O2*	G	A	319	134.546	50.224	-17.409	1.00	81.98	A16S
ATOM	6659	C3*	G	A	319	134.536	52.463	-16.462	1.00	81.98	A16S
ATOM	6660	O3*	G	A	319	133.718	52.884	-17.528	1.00	81.98	A16S
ATOM	6661	P	C	A	320	132.275	53.519	-17.200	1.00	81.04	A16S
ATOM	6662	O1P	C	A	320	131.702	53.964	-18.504	1.00	74.88	A16S
ATOM	6663	O2P	C	A	320	132.375	54.481	-16.068	1.00	74.88	A16S
ATOM	6664	O5*	C	A	320	131.432	52.274	-16.683	1.00	81.04	A16S
ATOM	6665	C5*	C	A	320	131.381	51.080	-17.471	1.00	81.04	A16S
ATOM	6666	C4*	C	A	320	130.554	50.025	-16.794	1.00	81.04	A16S
ATOM	6667	O4*	C	A	320	131.203	49.551	-15.593	1.00	81.04	A16S
ATOM	6668	C1*	C	A	320	130.217	49.127	-14.676	1.00	81.04	A16S
ATOM	6669	N1	C	A	320	130.408	49.837	-13.409	1.00	74.88	A16S
ATOM	6670	C6	C	A	320	131.012	51.058	-13.366	1.00	74.88	A16S
ATOM	6671	C2	C	A	320	129.953	49.240	-12.245	1.00	74.88	A16S
ATOM	6672	O2	C	A	320	129.402	48.134	-12.317	1.00	74.88	A16S
ATOM	6673	N3	C	A	320	130.119	49.874	-11.070	1.00	74.88	A16S
ATOM	6674	C4	C	A	320	130.711	51.062	-11.034	1.00	74.88	A16S
ATOM	6675	N4	C	A	320	130.860	51.646	-9.853	1.00	74.88	A16S
ATOM	6676	C5	C	A	320	131.180	51.702	-12.208	1.00	74.88	A16S
ATOM	6677	C2*	C	A	320	128.843	49.395	-15.295	1.00	81.04	A16S
ATOM	6678	O2*	C	A	320	128.359	48.203	-15.885	1.00	81.04	A16S
ATOM	6679	C3*	C	A	320	129.170	50.439	-16.348	1.00	81.04	A16S
ATOM	6680	O3*	C	A	320	128.275	50.341	-17.429	1.00	81.04	A16S
ATOM	6681	P	A	A	321	127.004	51.297	-17.481	1.00	77.47	A16S
ATOM	6682	O1P	A	A	321	126.459	51.221	-18.861	1.00	66.14	A16S
ATOM	6683	O2P	A	A	321	127.395	52.605	-16.917	1.00	66.14	A16S
ATOM	6684	O5*	A	A	321	125.962	50.613	-16.490	1.00	77.47	A16S
ATOM	6685	C5*	A	A	321	125.123	49.539	-16.952	1.00	77.47	A16S
ATOM	6686	C4*	A	A	321	124.776	48.602	-15.819	1.00	77.47	A16S
ATOM	6687	O4*	A	A	321	125.896	48.534	-14.902	1.00	77.47	A16S
ATOM	6688	C1*	A	A	321	125.426	48.276	-13.598	1.00	77.47	A16S
ATOM	6689	N9	A	A	321	125.858	49.355	-12.714	1.00	66.14	A16S
ATOM	6690	C4	A	A	321	125.890	49.306	-11.339	1.00	66.14	A16S
ATOM	6691	N3	A	A	321	125.551	48.275	-10.551	1.00	66.14	A16S
ATOM	6692	C2	A	A	321	125.697	48.596	-9.273	1.00	66.14	A16S



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ATOM	6693	N1	A	A 321	126.111	49.740	-8.733	1.00	66.14	A16S
ATOM	6694	C6	A	A 321	126.439	50.757	-9.550	1.00	66.14	A16S
ATOM	6695	N6	A	A 321	126.839	51.900	-9.009	1.00	66.14	A16S
ATOM	6696	C5	A	A 321	126.333	50.545	-10.927	1.00	66.14	A16S
ATOM	6697	N7	A	A 321	126.589	51.361	-12.018	1.00	66.14	A16S
ATOM	6698	C8	A	A 321	126.293	50.608	-13.052	1.00	66.14	A16S
ATOM	6699	C2*	A	A 321	123.906	48.156	-13.672	1.00	77.47	A16S
ATOM	6700	O2*	A	A 321	123.609	46.781	-13.828	1.00	77.47	A16S
ATOM	6701	C3*	A	A 321	123.589	48.947	-14.934	1.00	77.47	A16S
ATOM	6702	O3*	A	A 321	122.366	48.497	-15.524	1.00	77.47	A16S
ATOM	6703	P	C	A 322	120.948	48.989	-14.923	1.00	69.74	A16S
ATOM	6704	O1P	C	A 322	119.877	48.576	-15.881	1.00	77.92	A16S
ATOM	6705	O2P	C	A 322	121.080	50.414	-14.539	1.00	77.92	A16S
ATOM	6706	O5*	C	A 322	120.774	48.147	-13.584	1.00	69.74	A16S
ATOM	6707	C5*	C	A 322	120.812	46.712	-13.621	1.00	69.74	A16S
ATOM	6708	C4*	C	A 322	120.744	46.152	-12.227	1.00	69.74	A16S
ATOM	6709	O4*	C	A 322	121.936	46.499	-11.483	1.00	69.74	A16S
ATOM	6710	C1*	C	A 322	121.595	46.745	-10.128	1.00	69.74	A16S
ATOM	6711	N1	C	A 322	121.999	48.124	-9.770	1.00	77.92	A16S
ATOM	6712	C6	C	A 322	122.192	49.068	-10.740	1.00	77.92	A16S
ATOM	6713	C2	C	A 322	122.188	48.458	-8.406	1.00	77.92	A16S
ATOM	6714	O2	C	A 322	121.982	47.595	-7.526	1.00	77.92	A16S
ATOM	6715	N3	C	A 322	122.579	49.713	-8.087	1.00	77.92	A16S
ATOM	6716	C4	C	A 322	122.766	50.619	-9.049	1.00	77.92	A16S
ATOM	6717	N4	C	A 322	123.143	51.849	-8.689	1.00	77.92	A16S
ATOM	6718	C5	C	A 322	122.570	50.311	-10.427	1.00	77.92	A16S
ATOM	6719	C2*	C	A 322	120.097	46.491	-9.976	1.00	69.74	A16S
ATOM	6720	O2*	C	A 322	119.940	45.162	-9.542	1.00	69.74	A16S
ATOM	6721	C3*	C	A 322	119.605	46.698	-11.400	1.00	69.74	A16S
ATOM	6722	O3*	C	A 322	118.414	46.001	-11.693	1.00	69.74	A16S
ATOM	6723	P	U	A 323	117.019	46.784	-11.637	1.00	59.87	A16S
ATOM	6724	O1P	U	A 323	115.931	45.812	-11.951	1.00	86.42	A16S
ATOM	6725	O2P	U	A 323	117.136	48.050	-12.415	1.00	86.42	A16S
ATOM	6726	O5*	U	A 323	116.916	47.173	-10.107	1.00	59.87	A16S
ATOM	6727	C5*	U	A 323	116.978	46.151	-9.115	1.00	59.87	A16S
ATOM	6728	C4*	U	A 323	116.693	46.734	-7.771	1.00	59.87	A16S
ATOM	6729	O4*	U	A 323	117.892	47.299	-7.192	1.00	59.87	A16S
ATOM	6730	C1*	U	A 323	117.558	48.479	-6.495	1.00	59.87	A16S
ATOM	6731	N1	U	A 323	118.286	49.585	-7.137	1.00	86.42	A16S
ATOM	6732	C6	U	A 323	118.423	49.653	-8.506	1.00	86.42	A16S
ATOM	6733	C2	U	A 323	118.833	50.552	-6.325	1.00	86.42	A16S
ATOM	6734	O2	U	A 323	118.745	50.520	-5.107	1.00	86.42	A16S
ATOM	6735	N3	U	A 323	119.498	51.553	-6.984	1.00	86.42	A16S
ATOM	6736	C4	U	A 323	119.682	51.671	-8.339	1.00	86.42	A16S
ATOM	6737	O4	U	A 323	120.402	52.566	-8.771	1.00	86.42	A16S
ATOM	6738	C5	U	A 323	119.084	50.635	-9.116	1.00	86.42	A16S
ATOM	6739	C2*	U	A 323	116.031	48.639	-6.555	1.00	59.87	A16S
ATOM	6740	O2*	U	A 323	115.428	48.015	-5.448	1.00	59.87	A16S
ATOM	6741	C3*	U	A 323	115.691	47.867	-7.814	1.00	59.87	A16S
ATOM	6742	O3*	U	A 323	114.380	47.352	-7.829	1.00	59.87	A16S
ATOM	6743	P	G	A 324	113.153	48.332	-8.092	1.00	59.83	A16S
ATOM	6744	O1P	G	A 324	111.930	47.498	-8.244	1.00	95.66	A16S
ATOM	6745	O2P	G	A 324	113.538	49.271	-9.175	1.00	95.66	A16S
ATOM	6746	O5*	G	A 324	113.055	49.099	-6.703	1.00	59.83	A16S
ATOM	6747	C5*	G	A 324	112.287	50.302	-6.584	1.00	59.83	A16S
ATOM	6748	C4*	G	A 324	113.051	51.342	-5.791	1.00	59.83	A16S
ATOM	6749	O4*	G	A 324	114.471	51.305	-6.115	1.00	59.83	A16S
ATOM	6750	C1*	G	A 324	114.930	52.609	-6.419	1.00	59.83	A16S
ATOM	6751	N9	G	A 324	115.132	52.657	-7.871	1.00	95.66	A16S
ATOM	6752	C4	G	A 324	116.163	53.249	-8.581	1.00	95.66	A16S
ATOM	6753	N3	G	A 324	117.217	53.916	-8.064	1.00	95.66	A16S
ATOM	6754	C2	G	A 324	118.018	54.386	-9.013	1.00	95.66	A16S
ATOM	6755	N2	G	A 324	119.104	55.088	-8.686	1.00	95.66	A16S
ATOM	6756	N1	G	A 324	117.810	54.207	-10.358	1.00	95.66	A16S
ATOM	6757	C6	G	A 324	116.742	53.517	-10.914	1.00	95.66	A16S
ATOM	6758	O6	G	A 324	116.651	53.408	-12.144	1.00	95.66	A16S
ATOM	6759	C5	G	A 324	115.869	53.014	-9.913	1.00	95.66	A16S
ATOM	6760	N7	G	A 324	114.696	52.284	-10.038	1.00	95.66	A16S
ATOM	6761	C8	G	A 324	114.297	52.097	-8.811	1.00	95.66	A16S
ATOM	6762	C2*	G	A 324	113.854	53.574	-5.901	1.00	59.83	A16S
ATOM	6763	O2*	G	A 324	114.075	53.853	-4.533	1.00	59.83	A16S
ATOM	6764	C3*	G	A 324	112.586	52.751	-6.107	1.00	59.83	A16S
ATOM	6765	O3*	G	A 324	111.489	53.103	-5.273	1.00	59.83	A16S
ATOM	6766	P	A	A 325	110.145	53.717	-5.922	1.00	79.84	A16S
ATOM	6767	O1P	A	A 325	109.675	52.859	-7.054	1.00	70.94	A16S
ATOM	6768	O2P	A	A 325	109.231	53.984	-4.773	1.00	70.94	A16S
ATOM	6769	O5*	A	A 325	110.623	55.121	-6.514	1.00	79.84	A16S



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ATOM	6770	C5*	A	A	325	109.852	55.825	-7.510	1.00	79.84	A16S
ATOM	6771	C4*	A	A	325	110.318	57.257	-7.598	1.00	79.84	A16S
ATOM	6772	O4*	A	A	325	110.019	57.938	-6.358	1.00	79.84	A16S
ATOM	6773	C1*	A	A	325	111.051	58.858	-6.055	1.00	79.84	A16S
ATOM	6774	N9	A	A	325	111.575	58.566	-4.720	1.00	70.94	A16S
ATOM	6775	C4	A	A	325	112.225	59.460	-3.903	1.00	70.94	A16S
ATOM	6776	N3	A	A	325	112.534	60.734	-4.175	1.00	70.94	A16S
ATOM	6777	C2	A	A	325	113.149	61.295	-3.139	1.00	70.94	A16S
ATOM	6778	N1	A	A	325	113.462	60.769	-1.955	1.00	70.94	A16S
ATOM	6779	C6	A	A	325	113.130	59.490	-1.717	1.00	70.94	A16S
ATOM	6780	N6	A	A	325	113.430	58.970	-0.540	1.00	70.94	A16S
ATOM	6781	C5	A	A	325	112.485	58.781	-2.729	1.00	70.94	A16S
ATOM	6782	N7	A	A	325	112.033	57.474	-2.805	1.00	70.94	A16S
ATOM	6783	C8	A	A	325	111.508	57.393	-4.007	1.00	70.94	A16S
ATOM	6784	C2*	A	A	325	112.094	58.785	-7.163	1.00	79.84	A16S
ATOM	6785	O2*	A	A	325	111.839	59.812	-8.094	1.00	79.84	A16S
ATOM	6786	C3*	A	A	325	111.816	57.414	-7.756	1.00	79.84	A16S
ATOM	6787	O3*	A	A	325	112.195	57.362	-9.114	1.00	79.84	A16S
ATOM	6788	P	G	A	326	113.655	56.811	-9.501	1.00	68.76	A16S
ATOM	6789	O1P	G	A	326	113.838	56.988	-10.982	1.00	74.13	A16S
ATOM	6790	O2P	G	A	326	113.781	55.452	-8.888	1.00	74.13	A16S
ATOM	6791	O5*	G	A	326	114.656	57.792	-8.740	1.00	68.76	A16S
ATOM	6792	C5*	G	A	326	114.891	59.128	-9.210	1.00	68.76	A16S
ATOM	6793	C4*	G	A	326	115.783	59.849	-8.243	1.00	68.76	A16S
ATOM	6794	O4*	G	A	326	115.164	59.799	-6.938	1.00	68.76	A16S
ATOM	6795	C1*	G	A	326	116.157	59.649	-5.949	1.00	68.76	A16S
ATOM	6796	N9	G	A	326	115.784	58.521	-5.098	1.00	74.13	A16S
ATOM	6797	C4	G	A	326	116.008	58.426	-3.753	1.00	74.13	A16S
ATOM	6798	N3	G	A	326	116.622	59.354	-2.991	1.00	74.13	A16S
ATOM	6799	C2	G	A	326	116.699	58.983	-1.726	1.00	74.13	A16S
ATOM	6800	N2	G	A	326	117.288	59.792	-0.834	1.00	74.13	A16S
ATOM	6801	N1	G	A	326	116.206	57.794	-1.244	1.00	74.13	A16S
ATOM	6802	C6	G	A	326	115.561	56.826	-2.009	1.00	74.13	A16S
ATOM	6803	O6	G	A	326	115.148	55.792	-1.471	1.00	74.13	A16S
ATOM	6804	C5	G	A	326	115.478	57.211	-3.375	1.00	74.13	A16S
ATOM	6805	N7	G	A	326	114.929	56.552	-4.465	1.00	74.13	A16S
ATOM	6806	C8	G	A	326	115.135	57.364	-5.466	1.00	74.13	A16S
ATOM	6807	C2*	G	A	326	117.528	59.568	-6.634	1.00	68.76	A16S
ATOM	6808	O2*	G	A	326	118.185	60.812	-6.535	1.00	68.76	A16S
ATOM	6809	C3*	G	A	326	117.153	59.215	-8.072	1.00	68.76	A16S
ATOM	6810	O3*	G	A	326	118.032	59.827	-9.013	1.00	68.76	A16S
ATOM	6811	P	A	A	327	119.193	58.972	-9.722	1.00	76.45	A16S
ATOM	6812	O1P	A	A	327	120.005	59.981	-10.448	1.00	68.51	A16S
ATOM	6813	O2P	A	A	327	118.612	57.813	-10.474	1.00	68.51	A16S
ATOM	6814	O5*	A	A	327	120.068	58.443	-8.500	1.00	76.45	A16S
ATOM	6815	C5*	A	A	327	120.808	59.371	-7.681	1.00	76.45	A16S
ATOM	6816	C4*	A	A	327	122.162	58.799	-7.312	1.00	76.45	A16S
ATOM	6817	O4*	A	A	327	122.022	57.838	-6.230	1.00	76.45	A16S
ATOM	6818	C1*	A	A	327	122.631	56.622	-6.598	1.00	76.45	A16S
ATOM	6819	N9	A	A	327	121.872	55.532	-5.980	1.00	68.51	A16S
ATOM	6820	C4	A	A	327	121.875	55.236	-4.640	1.00	68.51	A16S
ATOM	6821	N3	A	A	327	122.553	55.867	-3.672	1.00	68.51	A16S
ATOM	6822	C2	A	A	327	122.311	55.302	-2.485	1.00	68.51	A16S
ATOM	6823	N1	A	A	327	121.528	54.261	-2.188	1.00	68.51	A16S
ATOM	6824	C6	A	A	327	120.858	53.655	-3.193	1.00	68.51	A16S
ATOM	6825	N6	A	A	327	120.065	52.626	-2.904	1.00	68.51	A16S
ATOM	6826	C5	A	A	327	121.032	54.152	-4.490	1.00	68.51	A16S
ATOM	6827	N7	A	A	327	120.503	53.768	-5.711	1.00	68.51	A16S
ATOM	6828	C8	A	A	327	121.032	54.613	-6.561	1.00	68.51	A16S
ATOM	6829	C2*	A	A	327	122.703	56.625	-8.129	1.00	76.45	A16S
ATOM	6830	O2*	A	A	327	123.748	55.784	-8.573	1.00	76.45	A16S
ATOM	6831	C3*	A	A	327	122.940	58.109	-8.430	1.00	76.45	A16S
ATOM	6832	O3*	A	A	327	124.338	58.394	-8.285	1.00	76.45	A16S
ATOM	6833	P	C	A	328	124.998	59.664	-9.032	1.00	72.19	A16S
ATOM	6834	O1P	C	A	328	124.823	60.835	-8.160	1.00	72.99	A16S
ATOM	6835	O2P	C	A	328	124.536	59.727	-10.455	1.00	72.99	A16S
ATOM	6836	O5*	C	A	328	126.552	59.337	-9.026	1.00	72.19	A16S
ATOM	6837	C5*	C	A	328	127.142	58.633	-10.129	1.00	72.19	A16S
ATOM	6838	C4*	C	A	328	127.016	57.148	-9.917	1.00	72.19	A16S
ATOM	6839	O4*	C	A	328	125.872	56.595	-10.593	1.00	72.19	A16S
ATOM	6840	C1*	C	A	328	126.052	55.202	-10.605	1.00	72.19	A16S
ATOM	6841	N1	C	A	328	125.063	54.603	-11.525	1.00	72.99	A16S
ATOM	6842	C6	C	A	328	123.826	54.245	-11.059	1.00	72.99	A16S
ATOM	6843	C2	C	A	328	125.397	54.393	-12.876	1.00	72.99	A16S
ATOM	6844	O2	C	A	328	126.515	54.741	-13.287	1.00	72.99	A16S
ATOM	6845	N3	C	A	328	124.492	53.818	-13.697	1.00	72.99	A16S
ATOM	6846	C4	C	A	328	123.293	53.467	-13.228	1.00	72.99	A16S



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ATOM	6847	N4	C	A	328	122.439	52.898	-14.082	1.00	72.99	A16S
ATOM	6848	C5	C	A	328	122.919	53.682	-11.865	1.00	72.99	A16S
ATOM	6849	C2*	C	A	328	127.532	55.019	-10.959	1.00	72.19	A16S
ATOM	6850	O2*	C	A	328	128.092	53.802	-10.532	1.00	72.19	A16S
ATOM	6851	C3*	C	A	328	128.176	56.305	-10.420	1.00	72.19	A16S
ATOM	6852	O3*	C	A	328	129.240	56.248	-9.443	1.00	72.19	A16S
ATOM	6853	P	A	A	329	129.038	55.534	-8.000	1.00	77.06	A16S
ATOM	6854	O1P	A	A	329	130.096	56.177	-7.173	1.00	79.97	A16S
ATOM	6855	O2P	A	A	329	129.013	54.060	-8.128	1.00	79.97	A16S
ATOM	6856	O5*	A	A	329	127.621	56.012	-7.433	1.00	77.06	A16S
ATOM	6857	C5*	A	A	329	127.517	57.107	-6.473	1.00	77.06	A16S
ATOM	6858	C4*	A	A	329	126.997	56.605	-5.128	1.00	77.06	A16S
ATOM	6859	O4*	A	A	329	125.750	55.917	-5.336	1.00	77.06	A16S
ATOM	6860	C1*	A	A	329	125.550	55.030	-4.270	1.00	77.06	A16S
ATOM	6861	N9	A	A	329	124.804	53.873	-4.737	1.00	79.97	A16S
ATOM	6862	C4	A	A	329	124.267	52.910	-3.925	1.00	79.97	A16S
ATOM	6863	N3	A	A	329	124.362	52.835	-2.589	1.00	79.97	A16S
ATOM	6864	C2	A	A	329	123.706	51.777	-2.139	1.00	79.97	A16S
ATOM	6865	N1	A	A	329	123.015	50.852	-2.822	1.00	79.97	A16S
ATOM	6866	C6	A	A	329	122.943	50.958	-4.168	1.00	79.97	A16S
ATOM	6867	N6	A	A	329	122.257	50.035	-4.855	1.00	79.97	A16S
ATOM	6868	C5	A	A	329	123.602	52.040	-4.764	1.00	79.97	A16S
ATOM	6869	N7	A	A	329	123.737	52.434	-6.085	1.00	79.97	A16S
ATOM	6870	C8	A	A	329	124.462	53.522	-6.014	1.00	79.97	A16S
ATOM	6871	C2*	A	A	329	126.896	54.717	-3.618	1.00	77.06	A16S
ATOM	6872	O2*	A	A	329	126.827	55.014	-2.239	1.00	77.06	A16S
ATOM	6873	C3*	A	A	329	127.880	55.584	-4.410	1.00	77.06	A16S
ATOM	6874	O3*	A	A	329	128.828	56.141	-3.460	1.00	77.06	A16S
ATOM	6875	P	C	A	330	128.755	57.704	-2.999	1.00	83.41	A16S
ATOM	6876	O1P	C	A	330	127.388	57.999	-2.487	1.00	83.36	A16S
ATOM	6877	O2P	C	A	330	129.363	58.596	-4.032	1.00	83.36	A16S
ATOM	6878	O5*	C	A	330	129.716	57.739	-1.736	1.00	83.41	A16S
ATOM	6879	C5*	C	A	330	129.645	56.700	-0.769	1.00	83.41	A16S
ATOM	6880	C4*	C	A	330	131.022	56.236	-0.402	1.00	83.41	A16S
ATOM	6881	O4*	C	A	330	131.788	57.384	0.044	1.00	83.41	A16S
ATOM	6882	C1*	C	A	330	132.420	57.091	1.277	1.00	83.41	A16S
ATOM	6883	N1	C	A	330	131.703	57.845	2.325	1.00	83.36	A16S
ATOM	6884	C6	C	A	330	130.625	58.620	2.008	1.00	83.36	A16S
ATOM	6885	C2	C	A	330	132.115	57.728	3.658	1.00	83.36	A16S
ATOM	6886	O2	C	A	330	133.124	57.049	3.927	1.00	83.36	A16S
ATOM	6887	N3	C	A	330	131.404	58.353	4.625	1.00	83.36	A16S
ATOM	6888	C4	C	A	330	130.327	59.066	4.305	1.00	83.36	A16S
ATOM	6889	N4	C	A	330	129.628	59.616	5.296	1.00	83.36	A16S
ATOM	6890	C5	C	A	330	129.914	59.235	2.957	1.00	83.36	A16S
ATOM	6891	C2*	C	A	330	132.296	55.575	1.497	1.00	83.41	A16S
ATOM	6892	O2*	C	A	330	133.410	54.856	0.994	1.00	83.41	A16S
ATOM	6893	C3*	C	A	330	130.992	55.275	0.774	1.00	83.41	A16S
ATOM	6894	O3*	C	A	330	130.810	53.915	0.376	1.00	83.41	A16S
ATOM	6895	P	G	A	331	129.586	53.070	0.995	1.00	79.42	A16S
ATOM	6896	O1P	G	A	331	129.576	51.720	0.366	1.00	79.52	A16S
ATOM	6897	O2P	G	A	331	128.353	53.905	0.975	1.00	79.52	A16S
ATOM	6898	O5*	G	A	331	129.996	52.888	2.515	1.00	79.42	A16S
ATOM	6899	C5*	G	A	331	131.190	52.184	2.870	1.00	79.42	A16S
ATOM	6900	C4*	G	A	331	131.154	51.834	4.330	1.00	79.42	A16S
ATOM	6901	O4*	G	A	331	131.436	53.002	5.151	1.00	79.42	A16S
ATOM	6902	C1*	G	A	331	130.622	52.970	6.315	1.00	79.42	A16S
ATOM	6903	N9	G	A	331	129.748	54.142	6.311	1.00	79.52	A16S
ATOM	6904	C4	G	A	331	129.079	54.661	7.389	1.00	79.52	A16S
ATOM	6905	N3	G	A	331	129.139	54.202	8.654	1.00	79.52	A16S
ATOM	6906	C2	G	A	331	128.363	54.894	9.466	1.00	79.52	A16S
ATOM	6907	N2	G	A	331	128.308	54.590	10.767	1.00	79.52	A16S
ATOM	6908	N1	G	A	331	127.584	55.943	9.068	1.00	79.52	A16S
ATOM	6909	C6	G	A	331	127.508	56.436	7.771	1.00	79.52	A16S
ATOM	6910	O6	G	A	331	126.772	57.398	7.517	1.00	79.52	A16S
ATOM	6911	C5	G	A	331	128.340	55.709	6.890	1.00	79.52	A16S
ATOM	6912	N7	G	A	331	128.556	55.863	5.529	1.00	79.52	A16S
ATOM	6913	C8	G	A	331	129.401	54.918	5.231	1.00	79.52	A16S
ATOM	6914	C2*	G	A	331	129.813	51.666	6.277	1.00	79.42	A16S
ATOM	6915	O2*	G	A	331	130.480	50.671	7.023	1.00	79.42	A16S
ATOM	6916	C3*	G	A	331	129.794	51.354	4.788	1.00	79.42	A16S
ATOM	6917	O3*	G	A	331	129.651	49.986	4.518	1.00	79.42	A16S
ATOM	6918	P	G	A	332	128.189	49.361	4.329	1.00	67.64	A16S
ATOM	6919	O1P	G	A	332	127.144	50.419	4.368	1.00	82.76	A16S
ATOM	6920	O2P	G	A	332	128.122	48.222	5.278	1.00	82.76	A16S
ATOM	6921	O5*	G	A	332	128.252	48.735	2.871	1.00	67.64	A16S
ATOM	6922	C5*	G	A	332	127.681	49.405	1.762	1.00	67.64	A16S
ATOM	6923	C4*	G	A	332	126.980	48.413	0.885	1.00	67.64	A16S



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ATOM	6924	O4*	G	A	332	125.984	49.126	0.136	1.00	67.64	A16S
ATOM	6925	C1*	G	A	332	125.866	48.565	-1.152	1.00	67.64	A16S
ATOM	6926	N9	G	A	332	126.277	49.573	-2.122	1.00	82.76	A16S
ATOM	6927	C4	G	A	332	126.006	49.544	-3.461	1.00	82.76	A16S
ATOM	6928	N3	G	A	332	125.290	48.594	-4.099	1.00	82.76	A16S
ATOM	6929	C2	G	A	332	125.203	48.834	-5.387	1.00	82.76	A16S
ATOM	6930	N2	G	A	332	124.515	47.999	-6.163	1.00	82.76	A16S
ATOM	6931	N1	G	A	332	125.781	49.914	-6.006	1.00	82.76	A16S
ATOM	6932	C6	G	A	332	126.528	50.898	-5.369	1.00	82.76	A16S
ATOM	6933	O6	G	A	332	127.012	51.825	-6.022	1.00	82.76	A16S
ATOM	6934	C5	G	A	332	126.619	50.661	-3.984	1.00	82.76	A16S
ATOM	6935	N7	G	A	332	127.252	51.389	-2.985	1.00	82.76	A16S
ATOM	6936	C8	G	A	332	127.021	50.709	-1.897	1.00	82.76	A16S
ATOM	6937	C2*	G	A	332	126.781	47.348	-1.214	1.00	67.64	A16S
ATOM	6938	O2*	G	A	332	126.062	46.193	-0.855	1.00	67.64	A16S
ATOM	6939	C3*	G	A	332	127.814	47.691	-0.161	1.00	67.64	A16S
ATOM	6940	O3*	G	A	332	128.409	46.494	0.304	1.00	67.64	A16S
ATOM	6941	P	G	A	333	129.541	45.764	-0.594	1.00	66.93	A16S
ATOM	6942	O1P	G	A	333	129.888	44.496	0.119	1.00	74.07	A16S
ATOM	6943	O2P	G	A	333	130.618	46.754	-0.880	1.00	74.07	A16S
ATOM	6944	O5*	G	A	333	128.811	45.402	-1.972	1.00	66.93	A16S
ATOM	6945	C5*	G	A	333	127.902	44.295	-2.047	1.00	66.93	A16S
ATOM	6946	C4*	G	A	333	127.543	43.998	-3.479	1.00	66.93	A16S
ATOM	6947	O4*	G	A	333	126.902	45.158	-4.053	1.00	66.93	A16S
ATOM	6948	C1*	G	A	333	127.250	45.268	-5.417	1.00	66.93	A16S
ATOM	6949	N9	G	A	333	127.912	46.554	-5.614	1.00	74.07	A16S
ATOM	6950	C4	G	A	333	128.273	47.109	-6.816	1.00	74.07	A16S
ATOM	6951	N3	G	A	333	128.120	46.539	-8.024	1.00	74.07	A16S
ATOM	6952	C2	G	A	333	128.560	47.315	-8.990	1.00	74.07	A16S
ATOM	6953	N2	G	A	333	128.513	46.883	-10.253	1.00	74.07	A16S
ATOM	6954	N1	G	A	333	129.084	48.567	-8.788	1.00	74.07	A16S
ATOM	6955	C6	G	A	333	129.238	49.180	-7.549	1.00	74.07	A16S
ATOM	6956	O6	G	A	333	129.699	50.326	-7.475	1.00	74.07	A16S
ATOM	6957	C5	G	A	333	128.802	48.344	-6.505	1.00	74.07	A16S
ATOM	6958	N7	G	A	333	128.803	48.550	-5.134	1.00	74.07	A16S
ATOM	6959	C8	G	A	333	128.272	47.461	-4.646	1.00	74.07	A16S
ATOM	6960	C2*	G	A	333	128.125	44.070	-5.776	1.00	66.93	A16S
ATOM	6961	O2*	G	A	333	127.302	43.065	-6.326	1.00	66.93	A16S
ATOM	6962	C3*	G	A	333	128.696	43.693	-4.417	1.00	66.93	A16S
ATOM	6963	O3*	G	A	333	129.094	42.325	-4.351	1.00	66.93	A16S
ATOM	6964	P	C	A	334	130.623	41.927	-4.681	1.00	77.03	A16S
ATOM	6965	O1P	C	A	334	130.829	40.498	-4.329	1.00	90.54	A16S
ATOM	6966	O2P	C	A	334	131.529	42.956	-4.105	1.00	90.54	A16S
ATOM	6967	O5*	C	A	334	130.684	42.064	-6.261	1.00	77.03	A16S
ATOM	6968	C5*	C	A	334	129.833	41.265	-7.072	1.00	77.03	A16S
ATOM	6969	C4*	C	A	334	130.183	41.453	-8.513	1.00	77.03	A16S
ATOM	6970	O4*	C	A	334	129.658	42.718	-8.986	1.00	77.03	A16S
ATOM	6971	C1*	C	A	334	130.553	43.272	-9.939	1.00	77.03	A16S
ATOM	6972	N1	C	A	334	131.043	44.568	-9.421	1.00	90.54	A16S
ATOM	6973	C6	C	A	334	131.261	44.753	-8.082	1.00	90.54	A16S
ATOM	6974	C2	C	A	334	131.297	45.610	-10.326	1.00	90.54	A16S
ATOM	6975	O2	C	A	334	131.065	45.432	-11.532	1.00	90.54	A16S
ATOM	6976	N3	C	A	334	131.777	46.785	-9.861	1.00	90.54	A16S
ATOM	6977	C4	C	A	334	131.985	46.951	-8.555	1.00	90.54	A16S
ATOM	6978	N4	C	A	334	132.447	48.128	-8.143	1.00	90.54	A16S
ATOM	6979	C5	C	A	334	131.725	45.918	-7.612	1.00	90.54	A16S
ATOM	6980	C2*	C	A	334	131.691	42.266	-10.140	1.00	77.03	A16S
ATOM	6981	O2*	C	A	334	131.386	41.422	-11.237	1.00	77.03	A16S
ATOM	6982	C3*	C	A	334	131.668	41.523	-8.811	1.00	77.03	A16S
ATOM	6983	O3*	C	A	334	132.273	40.244	-8.858	1.00	77.03	A16S
ATOM	6984	P	C	A	335	133.827	40.088	-8.462	1.00	77.61	A16S
ATOM	6985	O1P	C	A	335	134.103	38.621	-8.393	1.00	75.78	A16S
ATOM	6986	O2P	C	A	335	134.145	40.955	-7.292	1.00	75.78	A16S
ATOM	6987	O5*	C	A	335	134.579	40.662	-9.740	1.00	77.61	A16S
ATOM	6988	C5*	C	A	335	134.358	40.064	-11.021	1.00	77.61	A16S
ATOM	6989	C4*	C	A	335	135.000	40.885	-12.094	1.00	77.61	A16S
ATOM	6990	O4*	C	A	335	134.306	42.146	-12.213	1.00	77.61	A16S
ATOM	6991	C1*	C	A	335	135.236	43.163	-12.525	1.00	77.61	A16S
ATOM	6992	N1	C	A	335	135.253	44.118	-11.411	1.00	75.78	A16S
ATOM	6993	C6	C	A	335	134.809	43.761	-10.170	1.00	75.78	A16S
ATOM	6994	C2	C	A	335	135.747	45.402	-11.639	1.00	75.78	A16S
ATOM	6995	O2	C	A	335	136.131	45.702	-12.775	1.00	75.78	A16S
ATOM	6996	N3	C	A	335	135.797	46.283	-10.620	1.00	75.78	A16S
ATOM	6997	C4	C	A	335	135.374	45.922	-9.412	1.00	75.78	A16S
ATOM	6998	N4	C	A	335	135.456	46.820	-8.435	1.00	75.78	A16S
ATOM	6999	C5	C	A	335	134.851	44.623	-9.152	1.00	75.78	A16S
ATOM	7000	C2*	C	A	335	136.609	42.510	-12.687	1.00	77.61	A16S



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ATOM	7001	O2*	C	A	335	136.884	42.202	-14.044	1.00	77.61	A16S
ATOM	7002	C3*	C	A	335	136.443	41.267	-11.836	1.00	77.61	A16S
ATOM	7003	O3*	C	A	335	137.349	40.255	-12.212	1.00	77.61	A16S
ATOM	7004	P	C	A	336	138.744	40.131	-11.437	1.00	90.62	A16S
ATOM	7005	O1P	C	A	336	139.290	38.799	-11.785	1.00	89.70	A16S
ATOM	7006	O2P	C	A	336	138.551	40.497	-10.010	1.00	89.70	A16S
ATOM	7007	O5*	C	A	336	139.640	41.265	-12.096	1.00	90.62	A16S
ATOM	7008	C5*	C	A	336	139.972	41.230	-13.492	1.00	90.62	A16S
ATOM	7009	C4*	C	A	336	140.814	42.430	-13.847	1.00	90.62	A16S
ATOM	7010	O4*	C	A	336	139.990	43.629	-13.793	1.00	90.62	A16S
ATOM	7011	C1*	C	A	336	140.760	44.717	-13.294	1.00	90.62	A16S
ATOM	7012	N1	C	A	336	140.156	45.207	-12.023	1.00	89.70	A16S
ATOM	7013	C6	C	A	336	139.242	44.455	-11.332	1.00	89.70	A16S
ATOM	7014	C2	C	A	336	140.556	46.458	-11.521	1.00	89.70	A16S
ATOM	7015	O2	C	A	336	141.350	47.147	-12.182	1.00	89.70	A16S
ATOM	7016	N3	C	A	336	140.063	46.884	-10.333	1.00	89.70	A16S
ATOM	7017	C4	C	A	336	139.197	46.127	-9.660	1.00	89.70	A16S
ATOM	7018	N4	C	A	336	138.765	46.575	-8.483	1.00	89.70	A16S
ATOM	7019	C5	C	A	336	138.743	44.874	-10.159	1.00	89.70	A16S
ATOM	7020	C2*	C	A	336	142.194	44.211	-13.099	1.00	90.62	A16S
ATOM	7021	O2*	C	A	336	142.975	44.456	-14.255	1.00	90.62	A16S
ATOM	7022	C3*	C	A	336	141.966	42.723	-12.894	1.00	90.62	A16S
ATOM	7023	O3*	C	A	336	143.139	41.970	-13.156	1.00	90.62	A16S
ATOM	7024	P	C	A	337	144.203	41.736	-11.973	1.00	85.00	A16S
ATOM	7025	O1P	C	A	337	145.314	40.935	-12.525	1.00	85.24	A16S
ATOM	7026	O2P	C	A	337	143.467	41.228	-10.784	1.00	85.24	A16S
ATOM	7027	O5*	C	A	337	144.755	43.204	-11.671	1.00	85.00	A16S
ATOM	7028	C5*	C	A	337	145.459	43.947	-12.692	1.00	85.00	A16S
ATOM	7029	C4*	C	A	337	146.064	45.214	-12.123	1.00	85.00	A16S
ATOM	7030	O4*	C	A	337	145.041	46.228	-11.920	1.00	85.00	A16S
ATOM	7031	C1*	C	A	337	145.363	47.001	-10.771	1.00	85.00	A16S
ATOM	7032	N1	C	A	337	144.294	46.835	-9.766	1.00	85.24	A16S
ATOM	7033	C6	C	A	337	143.549	45.688	-9.712	1.00	85.24	A16S
ATOM	7034	C2	C	A	337	144.070	47.866	-8.841	1.00	85.24	A16S
ATOM	7035	O2	C	A	337	144.738	48.910	-8.929	1.00	85.24	A16S
ATOM	7036	N3	C	A	337	143.132	47.694	-7.879	1.00	85.24	A16S
ATOM	7037	C4	C	A	337	142.425	46.562	-7.830	1.00	85.24	A16S
ATOM	7038	N4	C	A	337	141.517	46.430	-6.867	1.00	85.24	A16S
ATOM	7039	C5	C	A	337	142.617	45.513	-8.770	1.00	85.24	A16S
ATOM	7040	C2*	C	A	337	146.700	46.497	-10.222	1.00	85.00	A16S
ATOM	7041	O2*	C	A	337	147.755	47.314	-10.678	1.00	85.00	A16S
ATOM	7042	C3*	C	A	337	146.754	45.077	-10.775	1.00	85.00	A16S
ATOM	7043	O3*	C	A	337	148.085	44.591	-10.884	1.00	85.00	A16S
ATOM	7044	P	A	A	338	148.756	43.841	-9.629	1.00100.85	A16S	
ATOM	7045	O1P	A	A	338	150.111	43.392	-10.052	1.00	89.79	A16S
ATOM	7046	O2P	A	A	338	147.793	42.851	-9.063	1.00	89.79	A16S
ATOM	7047	O5*	A	A	338	148.963	45.003	-8.566	1.00100.85	A16S	
ATOM	7048	C5*	A	A	338	149.814	46.119	-8.868	1.00100.85	A16S	
ATOM	7049	C4*	A	A	338	149.759	47.134	-7.756	1.00100.85	A16S	
ATOM	7050	O4*	A	A	338	148.458	47.771	-7.731	1.00100.85	A16S	
ATOM	7051	C1*	A	A	338	148.088	48.043	-6.390	1.00100.85	A16S	
ATOM	7052	N9	A	A	338	146.855	47.313	-6.097	1.00	89.79	A16S
ATOM	7053	C4	A	A	338	146.029	47.528	-5.025	1.00	89.79	A16S
ATOM	7054	N3	A	A	338	146.194	48.424	-4.039	1.00	89.79	A16S
ATOM	7055	C2	A	A	338	145.188	48.353	-3.178	1.00	89.79	A16S
ATOM	7056	N1	A	A	338	144.119	47.548	-3.192	1.00	89.79	A16S
ATOM	7057	C6	A	A	338	143.989	46.664	-4.202	1.00	89.79	A16S
ATOM	7058	N6	A	A	338	142.924	45.869	-4.225	1.00	89.79	A16S
ATOM	7059	C5	A	A	338	144.985	46.636	-5.171	1.00	89.79	A16S
ATOM	7060	N7	A	A	338	145.154	45.861	-6.303	1.00	89.79	A16S
ATOM	7061	C8	A	A	338	146.277	46.298	-6.815	1.00	89.79	A16S
ATOM	7062	C2*	A	A	338	149.247	47.615	-5.492	1.00100.85	A16S	
ATOM	7063	O2*	A	A	338	150.070	48.736	-5.236	1.00100.85	A16S	
ATOM	7064	C3*	A	A	338	149.929	46.568	-6.361	1.00100.85	A16S	
ATOM	7065	O3*	A	A	338	151.288	46.360	-6.032	1.00100.85	A16S	
ATOM	7066	P	C	A	339	151.697	45.061	-5.178	1.00102.12	A16S	
ATOM	7067	O1P	C	A	339	153.181	44.956	-5.254	1.00	93.83	A16S
ATOM	7068	O2P	C	A	339	150.842	43.916	-5.626	1.00	93.83	A16S
ATOM	7069	O5*	C	A	339	151.310	45.445	-3.679	1.00102.12	A16S	
ATOM	7070	C5*	C	A	339	151.955	46.556	-3.027	1.00102.12	A16S	
ATOM	7071	C4*	C	A	339	151.141	47.031	-1.849	1.00102.12	A16S	
ATOM	7072	O4*	C	A	339	149.825	47.454	-2.291	1.00102.12	A16S	
ATOM	7073	C1*	C	A	339	148.878	47.209	-1.263	1.00102.12	A16S	
ATOM	7074	N1	C	A	339	147.833	46.312	-1.772	1.00	93.83	A16S
ATOM	7075	C6	C	A	339	148.025	45.574	-2.904	1.00	93.83	A16S
ATOM	7076	C2	C	A	339	146.628	46.222	-1.064	1.00	93.83	A16S
ATOM	7077	O2	C	A	339	146.478	46.906	-0.034	1.00	93.83	A16S



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ATOM	7078	N3	C	A	339	145.659	45.396	-1.515	1.00	93.83	A16S
ATOM	7079	C4	C	A	339	145.858	44.679	-2.622	1.00	93.83	A16S
ATOM	7080	N4	C	A	339	144.874	43.877	-3.031	1.00	93.83	A16S
ATOM	7081	C5	C	A	339	147.074	44.753	-3.360	1.00	93.83	A16S
ATOM	7082	C2*	C	A	339	149.617	46.583	-0.084	1.00	102.12	A16S
ATOM	7083	O2*	C	A	339	149.931	47.588	0.858	1.00	102.12	A16S
ATOM	7084	C3*	C	A	339	150.846	46.004	-0.770	1.00	102.12	A16S
ATOM	7085	O3*	C	A	339	151.920	45.841	0.134	1.00	102.12	A16S
ATOM	7086	P	U	A	340	152.120	44.424	0.865	1.00	113.57	A16S
ATOM	7087	O1P	U	A	340	153.456	44.492	1.510	1.00	88.50	A16S
ATOM	7088	O2P	U	A	340	151.825	43.338	-0.108	1.00	88.50	A16S
ATOM	7089	O5*	U	A	340	150.989	44.396	1.989	1.00	113.57	A16S
ATOM	7090	C5*	U	A	340	151.012	45.343	3.072	1.00	113.57	A16S
ATOM	7091	C4*	U	A	340	149.814	45.154	3.967	1.00	113.57	A16S
ATOM	7092	O4*	U	A	340	148.601	45.548	3.275	1.00	113.57	A16S
ATOM	7093	C1*	U	A	340	147.526	44.716	3.686	1.00	113.57	A16S
ATOM	7094	N1	U	A	340	147.037	43.967	2.519	1.00	88.50	A16S
ATOM	7095	C6	U	A	340	147.816	43.807	1.386	1.00	88.50	A16S
ATOM	7096	C2	U	A	340	145.754	43.421	2.588	1.00	88.50	A16S
ATOM	7097	O2	U	A	340	145.031	43.511	3.580	1.00	88.50	A16S
ATOM	7098	N3	U	A	340	145.350	42.758	1.452	1.00	88.50	A16S
ATOM	7099	C4	U	A	340	146.075	42.572	0.289	1.00	88.50	A16S
ATOM	7100	O4	U	A	340	145.556	41.972	-0.654	1.00	88.50	A16S
ATOM	7101	C5	U	A	340	147.392	43.146	0.302	1.00	88.50	A16S
ATOM	7102	C2*	U	A	340	148.060	43.772	4.756	1.00	113.57	A16S
ATOM	7103	O2*	U	A	340	147.797	44.317	6.038	1.00	113.57	A16S
ATOM	7104	C3*	U	A	340	149.539	43.730	4.399	1.00	113.57	A16S
ATOM	7105	O3*	U	A	340	150.357	43.310	5.465	1.00	113.57	A16S
ATOM	7106	P	C	A	341	150.848	41.785	5.511	1.00	131.80	A16S
ATOM	7107	O1P	C	A	341	151.949	41.752	6.505	1.00	88.16	A16S
ATOM	7108	O2P	C	A	341	151.087	41.318	4.107	1.00	88.16	A16S
ATOM	7109	O5*	C	A	341	149.604	40.990	6.108	1.00	131.80	A16S
ATOM	7110	C5*	C	A	341	149.071	41.336	7.397	1.00	131.80	A16S
ATOM	7111	C4*	C	A	341	147.663	40.816	7.539	1.00	131.80	A16S
ATOM	7112	O4*	C	A	341	146.822	41.401	6.510	1.00	131.80	A16S
ATOM	7113	C1*	C	A	341	145.843	40.459	6.098	1.00	131.80	A16S
ATOM	7114	N1	C	A	341	146.031	40.156	4.666	1.00	88.16	A16S
ATOM	7115	C6	C	A	341	147.191	40.489	4.015	1.00	88.16	A16S
ATOM	7116	C2	C	A	341	144.997	39.496	3.977	1.00	88.16	A16S
ATOM	7117	O2	C	A	341	143.959	39.210	4.585	1.00	88.16	A16S
ATOM	7118	N3	C	A	341	145.162	39.186	2.671	1.00	88.16	A16S
ATOM	7119	C4	C	A	341	146.302	39.506	2.047	1.00	88.16	A16S
ATOM	7120	N4	C	A	341	146.427	39.171	0.755	1.00	88.16	A16S
ATOM	7121	C5	C	A	341	147.370	40.185	2.720	1.00	88.16	A16S
ATOM	7122	C2*	C	A	341	146.028	39.204	6.946	1.00	131.80	A16S
ATOM	7123	O2*	C	A	341	145.158	39.258	8.056	1.00	131.80	A16S
ATOM	7124	C3*	C	A	341	147.491	39.321	7.344	1.00	131.80	A16S
ATOM	7125	O3*	C	A	341	147.780	38.576	8.513	1.00	131.80	A16S
ATOM	7126	P	C	A	342	148.213	37.037	8.371	1.00	132.59	A16S
ATOM	7127	O1P	C	A	342	148.760	36.603	9.687	1.00	93.16	A16S
ATOM	7128	O2P	C	A	342	149.036	36.902	7.137	1.00	93.16	A16S
ATOM	7129	O5*	C	A	342	146.845	36.274	8.099	1.00	132.59	A16S
ATOM	7130	C5*	C	A	342	145.939	35.977	9.166	1.00	132.59	A16S
ATOM	7131	C4*	C	A	342	144.880	35.032	8.676	1.00	132.59	A16S
ATOM	7132	O4*	C	A	342	144.137	35.678	7.604	1.00	132.59	A16S
ATOM	7133	C1*	C	A	342	143.769	34.717	6.624	1.00	132.59	A16S
ATOM	7134	N1	C	A	342	144.451	35.023	5.346	1.00	93.16	A16S
ATOM	7135	C6	C	A	342	145.536	35.857	5.295	1.00	93.16	A16S
ATOM	7136	C2	C	A	342	143.978	34.409	4.171	1.00	93.16	A16S
ATOM	7137	O2	C	A	342	142.984	33.673	4.238	1.00	93.16	A16S
ATOM	7138	N3	C	A	342	144.617	34.631	2.998	1.00	93.16	A16S
ATOM	7139	C4	C	A	342	145.683	35.431	2.963	1.00	93.16	A16S
ATOM	7140	N4	C	A	342	146.286	35.610	1.787	1.00	93.16	A16S
ATOM	7141	C5	C	A	342	146.179	36.084	4.135	1.00	93.16	A16S
ATOM	7142	C2*	C	A	342	144.242	33.360	7.131	1.00	132.59	A16S
ATOM	7143	O2*	C	A	342	143.203	32.727	7.847	1.00	132.59	A16S
ATOM	7144	C3*	C	A	342	145.403	33.765	8.021	1.00	132.59	A16S
ATOM	7145	O3*	C	A	342	145.779	32.741	8.920	1.00	132.59	A16S
ATOM	7146	P	U	A	343	146.877	31.656	8.456	1.00	122.24	A16S
ATOM	7147	O1P	U	A	343	148.096	32.371	7.998	1.00	125.24	A16S
ATOM	7148	O2P	U	A	343	146.980	30.650	9.537	1.00	125.24	A16S
ATOM	7149	O5*	U	A	343	146.235	30.960	7.172	1.00	122.24	A16S
ATOM	7150	C5*	U	A	343	145.063	30.127	7.287	1.00	122.24	A16S
ATOM	7151	C4*	U	A	343	144.693	29.538	5.943	1.00	122.24	A16S
ATOM	7152	O4*	U	A	343	144.400	30.610	5.004	1.00	122.24	A16S
ATOM	7153	C1*	U	A	343	144.772	30.215	3.691	1.00	122.24	A16S
ATOM	7154	N1	U	A	343	145.798	31.140	3.170	1.00	125.24	A16S



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ATOM	7155	C6	U	A	343	146.564	31.923	4.007	1.00125.24	A16S
ATOM	7156	C2	U	A	343	145.994	31.175	1.795	1.00125.24	A16S
ATOM	7157	O2	U	A	343	145.323	30.527	1.010	1.00125.24	A16S
ATOM	7158	N3	U	A	343	147.008	31.996	1.374	1.00125.24	A16S
ATOM	7159	C4	U	A	343	147.827	32.775	2.158	1.00125.24	A16S
ATOM	7160	O4	U	A	343	148.751	33.398	1.632	1.00125.24	A16S
ATOM	7161	C5	U	A	343	147.545	32.714	3.560	1.00125.24	A16S
ATOM	7162	C2*	U	A	343	145.303	28.782	3.777	1.00122.24	A16S
ATOM	7163	O2*	U	A	343	144.258	27.884	3.454	1.00122.24	A16S
ATOM	7164	C3*	U	A	343	145.754	28.703	5.236	1.00122.24	A16S
ATOM	7165	O3*	U	A	343	145.818	27.356	5.718	1.00122.24	A16S
ATOM	7166	P	A	A	344	147.249	26.616	5.879	1.00139.85	A16S
ATOM	7167	O1P	A	A	344	148.250	27.227	4.960	1.00120.95	A16S
ATOM	7168	O2P	A	A	344	147.542	26.547	7.340	1.00120.95	A16S
ATOM	7169	O5*	A	A	344	146.957	25.137	5.358	1.00139.85	A16S
ATOM	7170	C5*	A	A	344	147.656	24.571	4.222	1.00139.85	A16S
ATOM	7171	C4*	A	A	344	146.775	23.547	3.548	1.00139.85	A16S
ATOM	7172	O4*	A	A	344	146.099	22.828	4.608	1.00139.85	A16S
ATOM	7173	C1*	A	A	344	144.725	22.682	4.308	1.00139.85	A16S
ATOM	7174	N9	A	A	344	143.969	23.340	5.372	1.00120.95	A16S
ATOM	7175	C4	A	A	344	143.214	22.705	6.328	1.00120.95	A16S
ATOM	7176	N3	A	A	344	143.011	21.381	6.460	1.00120.95	A16S
ATOM	7177	C2	A	A	344	142.231	21.127	7.506	1.00120.95	A16S
ATOM	7178	N1	A	A	344	141.666	21.983	8.373	1.00120.95	A16S
ATOM	7179	C6	A	A	344	141.886	23.308	8.213	1.00120.95	A16S
ATOM	7180	N6	A	A	344	141.313	24.160	9.076	1.00120.95	A16S
ATOM	7181	C5	A	A	344	142.708	23.707	7.136	1.00120.95	A16S
ATOM	7182	N7	A	A	344	143.133	24.952	6.694	1.00120.95	A16S
ATOM	7183	C8	A	A	344	143.871	24.680	5.646	1.00120.95	A16S
ATOM	7184	C2*	A	A	344	144.471	23.208	2.896	1.00139.85	A16S
ATOM	7185	O2*	A	A	344	144.345	22.112	2.018	1.00139.85	A16S
ATOM	7186	C3*	A	A	344	145.666	24.141	2.690	1.00139.85	A16S
ATOM	7187	O3*	A	A	344	146.113	24.376	1.336	1.00139.85	A16S
ATOM	7188	P	C	A	345	146.568	23.144	0.381	1.00131.99	A16S
ATOM	7189	O1P	C	A	345	147.684	22.448	1.074	1.00118.21	A16S
ATOM	7190	O2P	C	A	345	145.379	22.361	-0.069	1.00118.21	A16S
ATOM	7191	O5* C	A	A	345	147.170	23.858	-0.917	1.00131.99	A16S
ATOM	7192	C5* C	A	A	345	146.333	24.120	-2.066	1.00131.99	A16S
ATOM	7193	C4* C	A	A	345	146.737	25.410	-2.744	1.00131.99	A16S
ATOM	7194	O4* C	A	A	345	146.696	26.499	-1.785	1.00131.99	A16S
ATOM	7195	C1* C	A	A	345	147.930	27.184	-1.791	1.00131.99	A16S
ATOM	7196	N1	C	A	345	148.203	27.700	-0.431	1.00118.21	A16S
ATOM	7197	C6	C	A	345	148.079	26.896	0.669	1.00118.21	A16S
ATOM	7198	C2	C	A	345	148.586	29.054	-0.280	1.00118.21	A16S
ATOM	7199	O2	C	A	345	148.717	29.772	-1.290	1.00118.21	A16S
ATOM	7200	N3	C	A	345	148.807	29.541	0.961	1.00118.21	A16S
ATOM	7201	C4	C	A	345	148.678	28.745	2.024	1.00118.21	A16S
ATOM	7202	N4	C	A	345	148.917	29.275	3.225	1.00118.21	A16S
ATOM	7203	C5	C	A	345	148.303	27.372	1.902	1.00118.21	A16S
ATOM	7204	C2* C	A	A	345	148.956	26.202	-2.351	1.00131.99	A16S
ATOM	7205	O2* C	A	A	345	150.031	26.917	-2.918	1.00131.99	A16S
ATOM	7206	C3* C	A	A	345	148.120	25.444	-3.382	1.00131.99	A16S
ATOM	7207	O3* C	A	A	345	148.039	26.216	-4.583	1.00131.99	A16S
ATOM	7208	P	G	A	346	147.502	25.539	-5.947	1.00136.95	A16S
ATOM	7209	O1P	G	A	346	147.743	26.490	-7.072	1.00136.54	A16S
ATOM	7210	O2P	G	A	346	148.035	24.153	-6.036	1.00136.54	A16S
ATOM	7211	O5* G	A	A	346	145.926	25.442	-5.738	1.00136.95	A16S
ATOM	7212	C5* G	A	A	346	145.074	26.601	-5.869	1.00136.95	A16S
ATOM	7213	C4* G	A	A	346	143.628	26.173	-5.857	1.00136.95	A16S
ATOM	7214	O4* G	A	A	346	143.422	25.273	-4.747	1.00136.95	A16S
ATOM	7215	C1* G	A	A	346	142.110	25.420	-4.258	1.00136.95	A16S
ATOM	7216	N9	G	A	346	142.172	25.509	-2.803	1.00136.54	A16S
ATOM	7217	C4	G	A	346	142.860	26.433	-2.051	1.00136.54	A16S
ATOM	7218	N3	G	A	346	143.589	27.463	-2.530	1.00136.54	A16S
ATOM	7219	C2	G	A	346	144.147	28.167	-1.558	1.00136.54	A16S
ATOM	7220	N2	G	A	346	144.907	29.233	-1.858	1.00136.54	A16S
ATOM	7221	N1	G	A	346	144.001	27.879	-0.221	1.00136.54	A16S
ATOM	7222	C6	G	A	346	143.261	26.819	0.292	1.00136.54	A16S
ATOM	7223	O6	G	A	346	143.208	26.637	1.513	1.00136.54	A16S
ATOM	7224	C5	G	A	346	142.652	26.063	-0.739	1.00136.54	A16S
ATOM	7225	N7	G	A	346	141.838	24.944	-0.666	1.00136.54	A16S
ATOM	7226	C8	G	A	346	141.575	24.654	-1.911	1.00136.54	A16S
ATOM	7227	C2*	G	A	346	141.422	26.556	-5.023	1.00136.95	A16S
ATOM	7228	O2*	G	A	346	140.530	26.001	-5.967	1.00136.95	A16S
ATOM	7229	C3*	G	A	346	142.598	27.278	-5.684	1.00136.95	A16S
ATOM	7230	O3*	G	A	346	142.215	27.777	-6.968	1.00136.95	A16S
ATOM	7231	P	G	A	347	142.088	29.363	-7.218	1.00130.27	A16S



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ATOM	7232	O1P	G	A	347	143.455	29.934	-7.069	1.00100.85	A16S
ATOM	7233	O2P	G	A	347	141.333	29.578	-8.480	1.00100.85	A16S
ATOM	7234	O5*	G	A	347	141.167	29.890	-6.030	1.00130.27	A16S
ATOM	7235	C5*	G	A	347	139.866	29.317	-5.805	1.00130.27	A16S
ATOM	7236	C4*	G	A	347	139.398	29.605	-4.396	1.00130.27	A16S
ATOM	7237	O4*	G	A	347	140.453	29.253	-3.459	1.00130.27	A16S
ATOM	7238	C1*	G	A	347	140.442	30.149	-2.362	1.00130.27	A16S
ATOM	7239	N9	G	A	347	141.695	30.901	-2.363	1.00100.85	A16S
ATOM	7240	C4	G	A	347	142.286	31.507	-1.275	1.00100.85	A16S
ATOM	7241	N3	G	A	347	141.828	31.481	-0.004	1.00100.85	A16S
ATOM	7242	C2	G	A	347	142.601	32.175	0.817	1.00100.85	A16S
ATOM	7243	N2	G	A	347	142.294	32.242	2.118	1.00100.85	A16S
ATOM	7244	N1	G	A	347	143.730	32.850	0.423	1.00100.85	A16S
ATOM	7245	C6	G	A	347	144.222	32.893	-0.877	1.00100.85	A16S
ATOM	7246	O6	G	A	347	145.250	33.535	-1.124	1.00100.85	A16S
ATOM	7247	C5	G	A	347	143.405	32.141	-1.772	1.00100.85	A16S
ATOM	7248	N7	G	A	347	143.532	31.919	-3.139	1.00100.85	A16S
ATOM	7249	C8	G	A	347	142.501	31.176	-3.444	1.00100.85	A16S
ATOM	7250	C2*	G	A	347	139.255	31.087	-2.556	1.00130.27	A16S
ATOM	7251	O2*	G	A	347	138.130	30.559	-1.886	1.00130.27	A16S
ATOM	7252	C3*	G	A	347	139.088	31.055	-4.068	1.00130.27	A16S
ATOM	7253	O3*	G	A	347	137.779	31.434	-4.468	1.00130.27	A16S
ATOM	7254	P	G	A	348	137.304	32.959	-4.272	1.00101.11	A16S
ATOM	7255	O1P	G	A	348	138.505	33.838	-4.437	1.00 92.03	A16S
ATOM	7256	O2P	G	A	348	136.079	33.224	-5.083	1.00 92.03	A16S
ATOM	7257	O5*	G	A	348	136.886	33.006	-2.742	1.00101.11	A16S
ATOM	7258	C5*	G	A	348	136.890	34.234	-2.042	1.00101.11	A16S
ATOM	7259	C4*	G	A	348	137.258	34.006	-0.609	1.00101.11	A16S
ATOM	7260	O4*	G	A	348	138.625	33.536	-0.491	1.00101.11	A16S
ATOM	7261	C1*	G	A	348	139.234	34.115	0.654	1.00101.11	A16S
ATOM	7262	N9	G	A	348	140.405	34.876	0.220	1.00 92.03	A16S
ATOM	7263	C4	G	A	348	141.212	35.662	1.008	1.00 92.03	A16S
ATOM	7264	N3	G	A	348	141.059	35.881	2.333	1.00 92.03	A16S
ATOM	7265	C2	G	A	348	142.000	36.681	2.817	1.00 92.03	A16S
ATOM	7266	N2	G	A	348	141.996	36.999	4.126	1.00 92.03	A16S
ATOM	7267	N1	G	A	348	143.010	37.227	2.057	1.00 92.03	A16S
ATOM	7268	C6	G	A	348	143.184	37.018	0.689	1.00 92.03	A16S
ATOM	7269	O6	G	A	348	144.126	37.562	0.091	1.00 92.03	A16S
ATOM	7270	C5	G	A	348	142.182	36.156	0.161	1.00 92.03	A16S
ATOM	7271	N7	G	A	348	141.988	35.695	-1.133	1.00 92.03	A16S
ATOM	7272	C8	G	A	348	140.924	34.944	-1.050	1.00 92.03	A16S
ATOM	7273	C2*	G	A	348	138.180	34.978	1.345	1.00101.11	A16S
ATOM	7274	O2*	G	A	348	137.546	34.230	2.364	1.00101.11	A16S
ATOM	7275	C3*	G	A	348	137.247	35.283	0.185	1.00101.11	A16S
ATOM	7276	O3*	G	A	348	135.922	35.603	0.529	1.00101.11	A16S
ATOM	7277	P	A	A	349	135.384	37.076	0.214	1.00109.57	A16S
ATOM	7278	O1P	A	A	349	133.922	37.070	0.481	1.00 91.69	A16S
ATOM	7279	O2P	A	A	349	135.883	37.488	-1.128	1.00 91.69	A16S
ATOM	7280	O5*	A	A	349	136.125	37.936	1.328	1.00109.57	A16S
ATOM	7281	C5*	A	A	349	136.050	37.530	2.706	1.00109.57	A16S
ATOM	7282	C4*	A	A	349	136.825	38.475	3.580	1.00109.57	A16S
ATOM	7283	O4*	A	A	349	138.239	38.165	3.557	1.00109.57	A16S
ATOM	7284	C1*	A	A	349	138.984	39.361	3.667	1.00109.57	A16S
ATOM	7285	N9	A	A	349	139.789	39.491	2.459	1.00 91.69	A16S
ATOM	7286	C4	A	A	349	140.950	40.209	2.328	1.00 91.69	A16S
ATOM	7287	N3	A	A	349	141.581	40.915	3.280	1.00 91.69	A16S
ATOM	7288	C2	A	A	349	142.674	41.496	2.789	1.00 91.69	A16S
ATOM	7289	N1	A	A	349	143.167	41.455	1.547	1.00 91.69	A16S
ATOM	7290	C6	A	A	349	142.505	40.741	0.612	1.00 91.69	A16S
ATOM	7291	N6	A	A	349	142.989	40.718	-0.633	1.00 91.69	A16S
ATOM	7292	C5	A	A	349	141.334	40.070	1.010	1.00 91.69	A16S
ATOM	7293	N7	A	A	349	140.436	39.267	0.321	1.00 91.69	A16S
ATOM	7294	C8	A	A	349	139.543	38.947	1.224	1.00 91.69	A16S
ATOM	7295	C2*	A	A	349	137.993	40.520	3.819	1.00109.57	A16S
ATOM	7296	O2*	A	A	349	137.835	40.838	5.186	1.00109.57	A16S
ATOM	7297	C3*	A	A	349	136.733	39.934	3.191	1.00109.57	A16S
ATOM	7298	O3*	A	A	349	135.513	40.498	3.657	1.00109.57	A16S
ATOM	7299	P	G	A	350	135.071	41.966	3.168	1.00 90.19	A16S
ATOM	7300	O1P	G	A	350	135.383	42.155	1.709	1.00 75.44	A16S
ATOM	7301	O2P	G	A	350	133.677	42.203	3.660	1.00 75.44	A16S
ATOM	7302	O5*	G	A	350	136.052	42.884	4.009	1.00 90.19	A16S
ATOM	7303	C5*	G	A	350	136.249	44.229	3.663	1.00 90.19	A16S
ATOM	7304	C4*	G	A	350	137.513	44.715	4.282	1.00 90.19	A16S
ATOM	7305	O4*	G	A	350	138.595	43.827	3.930	1.00 90.19	A16S
ATOM	7306	C1*	G	A	350	139.747	44.586	3.614	1.00 90.19	A16S
ATOM	7307	N9	G	A	350	140.068	44.326	2.213	1.00 75.44	A16S
ATOM	7308	C4	G	A	350	141.256	44.583	1.562	1.00 75.44	A16S



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ATOM	7309	N3	G	A	350	142.345	45.176	2.092	1.00	75.44	A16S
ATOM	7310	C2	G	A	350	143.326	45.280	1.209	1.00	75.44	A16S
ATOM	7311	N2	G	A	350	144.457	45.902	1.542	1.00	75.44	A16S
ATOM	7312	N1	G	A	350	143.262	44.795	-0.072	1.00	75.44	A16S
ATOM	7313	C6	G	A	350	142.157	44.159	-0.634	1.00	75.44	A16S
ATOM	7314	O6	G	A	350	142.209	43.718	-1.794	1.00	75.44	A16S
ATOM	7315	C5	G	A	350	141.081	44.093	0.279	1.00	75.44	A16S
ATOM	7316	N7	G	A	350	139.801	43.581	0.114	1.00	75.44	A16S
ATOM	7317	C8	G	A	350	139.237	43.741	1.280	1.00	75.44	A16S
ATOM	7318	C2*	G	A	350	139.425	46.052	3.922	1.00	90.19	A16S
ATOM	7319	O2*	G	A	350	139.810	46.341	5.250	1.00	90.19	A16S
ATOM	7320	C3*	G	A	350	137.912	46.074	3.768	1.00	90.19	A16S
ATOM	7321	O3*	G	A	350	137.268	47.053	4.559	1.00	90.19	A16S
ATOM	7322	P	G	A	351	135.933	47.766	4.016	1.00	90.37	A16S
ATOM	7323	O1P	G	A	351	134.993	47.783	5.170	1.00	74.53	A16S
ATOM	7324	O2P	G	A	351	135.479	47.197	2.710	1.00	74.53	A16S
ATOM	7325	O5*	G	A	351	136.425	49.254	3.752	1.00	90.37	A16S
ATOM	7326	C5*	G	A	351	137.129	49.983	4.776	1.00	90.37	A16S
ATOM	7327	C4*	G	A	351	138.227	50.799	4.159	1.00	90.37	A16S
ATOM	7328	O4*	G	A	351	139.140	49.886	3.533	1.00	90.37	A16S
ATOM	7329	C1*	G	A	351	139.641	50.468	2.361	1.00	90.37	A16S
ATOM	7330	N9	G	A	351	139.578	49.480	1.293	1.00	74.53	A16S
ATOM	7331	C4	G	A	351	140.617	49.136	0.474	1.00	74.53	A16S
ATOM	7332	N3	G	A	351	141.852	49.664	0.517	1.00	74.53	A16S
ATOM	7333	C2	G	A	351	142.639	49.142	-0.395	1.00	74.53	A16S
ATOM	7334	N2	G	A	351	143.909	49.560	-0.482	1.00	74.53	A16S
ATOM	7335	N1	G	A	351	142.245	48.173	-1.286	1.00	74.53	A16S
ATOM	7336	C6	G	A	351	140.976	47.615	-1.349	1.00	74.53	A16S
ATOM	7337	O6	G	A	351	140.722	46.746	-2.198	1.00	74.53	A16S
ATOM	7338	C5	G	A	351	140.119	48.169	-0.368	1.00	74.53	A16S
ATOM	7339	N7	G	A	351	138.785	47.908	-0.082	1.00	74.53	A16S
ATOM	7340	C8	G	A	351	138.507	48.710	0.909	1.00	74.53	A16S
ATOM	7341	C2*	G	A	351	138.949	51.815	2.121	1.00	90.37	A16S
ATOM	7342	O2*	G	A	351	139.811	52.888	2.456	1.00	90.37	A16S
ATOM	7343	C3*	G	A	351	137.758	51.751	3.065	1.00	90.37	A16S
ATOM	7344	O3*	G	A	351	137.519	53.099	3.528	1.00	90.37	A16S
ATOM	7345	P	C	A	352	138.027	53.586	4.995	1.00	73.97	A16S
ATOM	7346	O1P	C	A	352	136.825	53.757	5.874	1.00	79.31	A16S
ATOM	7347	O2P	C	A	352	139.207	52.803	5.499	1.00	79.31	A16S
ATOM	7348	O5*	C	A	352	138.588	55.041	4.712	1.00	73.97	A16S
ATOM	7349	C5*	C	A	352	139.743	55.522	5.413	1.00	73.97	A16S
ATOM	7350	C4*	C	A	352	139.333	56.521	6.466	1.00	73.97	A16S
ATOM	7351	O4*	C	A	352	138.811	55.837	7.638	1.00	73.97	A16S
ATOM	7352	C1*	C	A	352	139.229	56.518	8.808	1.00	73.97	A16S
ATOM	7353	N1	C	A	352	140.134	55.633	9.552	1.00	79.31	A16S
ATOM	7354	C6	C	A	352	140.637	54.506	8.970	1.00	79.31	A16S
ATOM	7355	C2	C	A	352	140.499	55.977	10.859	1.00	79.31	A16S
ATOM	7356	O2	C	A	352	140.009	56.992	11.377	1.00	79.31	A16S
ATOM	7357	N3	C	A	352	141.380	55.198	11.520	1.00	79.31	A16S
ATOM	7358	C4	C	A	352	141.888	54.116	10.929	1.00	79.31	A16S
ATOM	7359	N4	C	A	352	142.777	53.392	11.604	1.00	79.31	A16S
ATOM	7360	C5	C	A	352	141.512	53.731	9.614	1.00	79.31	A16S
ATOM	7361	C2*	C	A	352	139.969	57.778	8.364	1.00	73.97	A16S
ATOM	7362	O2*	C	A	352	139.036	58.827	8.291	1.00	73.97	A16S
ATOM	7363	C3*	C	A	352	140.475	57.363	6.993	1.00	73.97	A16S
ATOM	7364	O3*	C	A	352	140.665	58.457	6.119	1.00	73.97	A16S
ATOM	7365	P	A	A	353	142.109	59.152	6.000	1.00	70.92	A16S
ATOM	7366	O1P	A	A	353	142.849	58.914	7.263	1.00	67.44	A16S
ATOM	7367	O2P	A	A	353	142.733	58.742	4.693	1.00	67.44	A16S
ATOM	7368	O5*	A	A	353	141.725	60.701	5.992	1.00	70.92	A16S
ATOM	7369	C5*	A	A	353	141.542	61.401	4.774	1.00	70.92	A16S
ATOM	7370	C4*	A	A	353	140.157	61.986	4.678	1.00	70.92	A16S
ATOM	7371	O4*	A	A	353	140.257	62.791	3.489	1.00	70.92	A16S
ATOM	7372	C1*	A	A	353	139.309	62.370	2.539	1.00	70.92	A16S
ATOM	7373	N9	A	A	353	139.993	61.531	1.562	1.00	67.44	A16S
ATOM	7374	C4	A	A	353	139.509	61.210	0.321	1.00	67.44	A16S
ATOM	7375	N3	A	A	353	138.347	61.605	-0.220	1.00	67.44	A16S
ATOM	7376	C2	A	A	353	138.205	61.105	-1.435	1.00	67.44	A16S
ATOM	7377	N1	A	A	353	139.024	60.311	-2.120	1.00	67.44	A16S
ATOM	7378	C6	A	A	353	140.185	59.926	-1.550	1.00	67.44	A16S
ATOM	7379	N6	A	A	353	140.999	59.122	-2.243	1.00	67.44	A16S
ATOM	7380	C5	A	A	353	140.460	60.397	-0.256	1.00	67.44	A16S
ATOM	7381	N7	A	A	353	141.534	60.211	0.605	1.00	67.44	A16S
ATOM	7382	C8	A	A	353	141.208	60.904	1.666	1.00	67.44	A16S
ATOM	7383	C2*	A	A	353	138.215	61.623	3.293	1.00	70.92	A16S
ATOM	7384	O2*	A	A	353	137.217	62.537	3.699	1.00	70.92	A16S
ATOM	7385	C3*	A	A	353	138.999	61.000	4.445	1.00	70.92	A16S



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ATOM	7386	O3*	A	A	353	138.143	60.899	5.603	1.00	70.92	A16S
ATOM	7387	P	G	A	354	136.767	60.019	5.560	1.00	63.33	A16S
ATOM	7388	O1P	G	A	354	137.109	58.578	5.758	1.00	74.40	A16S
ATOM	7389	O2P	G	A	354	135.898	60.409	4.408	1.00	74.40	A16S
ATOM	7390	O5*	G	A	354	136.031	60.451	6.907	1.00	63.33	A16S
ATOM	7391	C5*	G	A	354	135.348	61.698	7.004	1.00	63.33	A16S
ATOM	7392	C4*	G	A	354	134.416	61.702	8.197	1.00	63.33	A16S
ATOM	7393	O4*	G	A	354	133.654	60.463	8.245	1.00	63.33	A16S
ATOM	7394	C1*	G	A	354	133.389	60.120	9.594	1.00	63.33	A16S
ATOM	7395	N9	G	A	354	133.935	58.785	9.865	1.00	74.40	A16S
ATOM	7396	C4	G	A	354	133.959	58.121	11.086	1.00	74.40	A16S
ATOM	7397	N3	G	A	354	133.451	58.570	12.258	1.00	74.40	A16S
ATOM	7398	C2	G	A	354	133.637	57.704	13.246	1.00	74.40	A16S
ATOM	7399	N2	G	A	354	133.179	57.966	14.472	1.00	74.40	A16S
ATOM	7400	N1	G	A	354	134.280	56.515	13.107	1.00	74.40	A16S
ATOM	7401	C6	G	A	354	134.814	56.029	11.923	1.00	74.40	A16S
ATOM	7402	O6	G	A	354	135.386	54.932	11.918	1.00	74.40	A16S
ATOM	7403	C5	G	A	354	134.608	56.933	10.840	1.00	74.40	A16S
ATOM	7404	N7	G	A	354	134.959	56.829	9.498	1.00	74.40	A16S
ATOM	7405	C8	G	A	354	134.541	57.943	8.962	1.00	74.40	A16S
ATOM	7406	C2*	G	A	354	133.975	61.231	10.475	1.00	63.33	A16S
ATOM	7407	O2*	G	A	354	132.940	62.152	10.756	1.00	63.33	A16S
ATOM	7408	C3*	G	A	354	135.048	61.836	9.573	1.00	63.33	A16S
ATOM	7409	O3*	G	A	354	135.258	63.224	9.868	1.00	63.33	A16S
ATOM	7410	P	C	A	355	136.284	63.672	11.034	1.00	64.46	A16S
ATOM	7411	O1P	C	A	355	136.149	65.141	11.137	1.00	83.72	A16S
ATOM	7412	O2P	C	A	355	137.630	63.087	10.809	1.00	83.72	A16S
ATOM	7413	O5*	C	A	355	135.682	63.011	12.356	1.00	64.46	A16S
ATOM	7414	C5*	C	A	355	134.598	63.633	13.081	1.00	64.46	A16S
ATOM	7415	C4*	C	A	355	134.585	63.148	14.508	1.00	64.46	A16S
ATOM	7416	O4*	C	A	355	134.120	61.779	14.555	1.00	64.46	A16S
ATOM	7417	C1*	C	A	355	134.878	61.044	15.503	1.00	64.46	A16S
ATOM	7418	N1	C	A	355	135.594	59.978	14.777	1.00	83.72	A16S
ATOM	7419	C6	C	A	355	135.888	60.115	13.448	1.00	83.72	A16S
ATOM	7420	C2	C	A	355	135.965	58.825	15.460	1.00	83.72	A16S
ATOM	7421	O2	C	A	355	135.707	58.734	16.666	1.00	83.72	A16S
ATOM	7422	N3	C	A	355	136.602	57.840	14.789	1.00	83.72	A16S
ATOM	7423	C4	C	A	355	136.877	57.984	13.492	1.00	83.72	A16S
ATOM	7424	N4	C	A	355	137.503	56.988	12.868	1.00	83.72	A16S
ATOM	7425	C5	C	A	355	136.522	59.153	12.777	1.00	83.72	A16S
ATOM	7426	C2*	C	A	355	135.828	62.022	16.200	1.00	64.46	A16S
ATOM	7427	O2*	C	A	355	135.266	62.517	17.401	1.00	64.46	A16S
ATOM	7428	C3*	C	A	355	135.953	63.117	15.159	1.00	64.46	A16S
ATOM	7429	O3*	C	A	355	136.248	64.336	15.775	1.00	64.46	A16S
ATOM	7430	P	A	A	356	137.769	64.767	15.931	1.00	78.08	A16S
ATOM	7431	O1P	A	A	356	137.777	66.048	16.687	1.00	80.45	A16S
ATOM	7432	O2P	A	A	356	138.357	64.705	14.564	1.00	80.45	A16S
ATOM	7433	O5*	A	A	356	138.427	63.596	16.794	1.00	78.08	A16S
ATOM	7434	C5*	A	A	356	138.277	63.554	18.219	1.00	78.08	A16S
ATOM	7435	C4*	A	A	356	138.887	62.288	18.798	1.00	78.08	A16S
ATOM	7436	O4*	A	A	356	138.206	61.108	18.281	1.00	78.08	A16S
ATOM	7437	C1*	A	A	356	139.053	59.977	18.443	1.00	78.08	A16S
ATOM	7438	N9	A	A	356	139.198	59.256	17.175	1.00	80.45	A16S
ATOM	7439	C4	A	A	356	139.661	57.966	17.067	1.00	80.45	A16S
ATOM	7440	N3	A	A	356	139.982	57.131	18.068	1.00	80.45	A16S
ATOM	7441	C2	A	A	356	140.450	55.984	17.591	1.00	80.45	A16S
ATOM	7442	N1	A	A	356	140.627	55.606	16.324	1.00	80.45	A16S
ATOM	7443	C6	A	A	356	140.295	56.468	15.341	1.00	80.45	A16S
ATOM	7444	N6	A	A	356	140.488	56.096	14.077	1.00	80.45	A16S
ATOM	7445	C5	A	A	356	139.772	57.716	15.715	1.00	80.45	A16S
ATOM	7446	N7	A	A	356	139.334	58.806	14.977	1.00	80.45	A16S
ATOM	7447	C8	A	A	356	138.992	59.686	15.888	1.00	80.45	A16S
ATOM	7448	C2*	A	A	356	140.416	60.483	18.924	1.00	78.08	A16S
ATOM	7449	O2*	A	A	356	140.518	60.290	20.321	1.00	78.08	A16S
ATOM	7450	C3*	A	A	356	140.363	61.965	18.565	1.00	78.08	A16S
ATOM	7451	O3*	A	A	356	141.263	62.674	19.419	1.00	78.08	A16S
ATOM	7452	P	G	A	357	142.823	62.783	19.016	1.00	73.10	A16S
ATOM	7453	O1P	G	A	357	143.569	63.378	20.159	1.00	81.17	A16S
ATOM	7454	O2P	G	A	357	142.923	63.416	17.676	1.00	81.17	A16S
ATOM	7455	O5*	G	A	357	143.285	61.265	18.838	1.00	73.10	A16S
ATOM	7456	C5*	G	A	357	143.495	60.408	19.982	1.00	73.10	A16S
ATOM	7457	C4*	G	A	357	144.022	59.055	19.551	1.00	73.10	A16S
ATOM	7458	O4*	G	A	357	143.034	58.365	18.745	1.00	73.10	A16S
ATOM	7459	C1*	G	A	357	143.683	57.578	17.766	1.00	73.10	A16S
ATOM	7460	N9	G	A	357	143.301	58.072	16.451	1.00	81.17	A16S
ATOM	7461	C4	G	A	357	143.574	57.477	15.252	1.00	81.17	A16S
ATOM	7462	N3	G	A	357	144.227	56.318	15.083	1.00	81.17	A16S



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ATOM	7463	C2	G	A	357	144.362	56.014	13.810	1.00	81.17	A16S
ATOM	7464	N2	G	A	357	145.005	54.897	13.464	1.00	81.17	A16S
ATOM	7465	N1	G	A	357	143.883	56.787	12.781	1.00	81.17	A16S
ATOM	7466	C6	G	A	357	143.202	57.987	12.936	1.00	81.17	A16S
ATOM	7467	O6	G	A	357	142.806	58.612	11.942	1.00	81.17	A16S
ATOM	7468	C5	G	A	357	143.059	58.322	14.298	1.00	81.17	A16S
ATOM	7469	N7	G	A	357	142.459	59.421	14.888	1.00	81.17	A16S
ATOM	7470	C8	G	A	357	142.624	59.228	16.165	1.00	81.17	A16S
ATOM	7471	C2*	G	A	357	145.186	57.712	17.990	1.00	73.10	A16S
ATOM	7472	O2*	G	A	357	145.570	56.648	18.825	1.00	73.10	A16S
ATOM	7473	C3*	G	A	357	145.284	59.050	18.708	1.00	73.10	A16S
ATOM	7474	O3*	G	A	357	146.428	59.099	19.549	1.00	73.10	A16S
ATOM	7475	P	U	A	358	147.880	59.388	18.914	1.00	81.92	A16S
ATOM	7476	O1P	U	A	358	148.836	59.436	20.052	1.00	79.46	A16S
ATOM	7477	O2P	U	A	358	147.789	60.547	17.970	1.00	79.46	A16S
ATOM	7478	O5*	U	A	358	148.203	58.095	18.040	1.00	81.92	A16S
ATOM	7479	C5*	U	A	358	148.434	56.819	18.660	1.00	81.92	A16S
ATOM	7480	C4*	U	A	358	148.916	55.820	17.635	1.00	81.92	A16S
ATOM	7481	O4*	U	A	358	147.878	55.545	16.657	1.00	81.92	A16S
ATOM	7482	C1*	U	A	358	148.473	55.313	15.390	1.00	81.92	A16S
ATOM	7483	N1	U	A	358	147.900	56.251	14.410	1.00	79.46	A16S
ATOM	7484	C6	U	A	358	147.265	57.417	14.793	1.00	79.46	A16S
ATOM	7485	C2	U	A	358	148.021	55.919	13.065	1.00	79.46	A16S
ATOM	7486	O2	U	A	358	148.580	54.903	12.682	1.00	79.46	A16S
ATOM	7487	N3	U	A	358	147.466	56.820	12.186	1.00	79.46	A16S
ATOM	7488	C4	U	A	358	146.819	57.993	12.500	1.00	79.46	A16S
ATOM	7489	O4	U	A	358	146.350	58.683	11.591	1.00	79.46	A16S
ATOM	7490	C5	U	A	358	146.737	58.274	13.909	1.00	79.46	A16S
ATOM	7491	C2*	U	A	358	149.992	55.444	15.546	1.00	81.92	A16S
ATOM	7492	O2*	U	A	358	150.595	54.178	15.707	1.00	81.92	A16S
ATOM	7493	C3*	U	A	358	150.101	56.278	16.811	1.00	81.92	A16S
ATOM	7494	O3*	U	A	358	151.308	56.027	17.484	1.00	81.92	A16S
ATOM	7495	P	U	A	359	152.582	56.927	17.152	1.00	77.92	A16S
ATOM	7496	O1P	U	A	359	153.675	56.512	18.070	1.00	86.88	A16S
ATOM	7497	O2P	U	A	359	152.137	58.353	17.126	1.00	86.88	A16S
ATOM	7498	O5*	U	A	359	152.963	56.490	15.669	1.00	77.92	A16S
ATOM	7499	C5*	U	A	359	153.487	55.181	15.395	1.00	77.92	A16S
ATOM	7500	C4*	U	A	359	153.613	54.975	13.905	1.00	77.92	A16S
ATOM	7501	O4*	U	A	359	152.293	55.001	13.307	1.00	77.92	A16S
ATOM	7502	C1*	U	A	359	152.365	55.597	12.026	1.00	77.92	A16S
ATOM	7503	N1	U	A	359	151.523	56.796	12.019	1.00	86.88	A16S
ATOM	7504	C6	U	A	359	151.214	57.470	13.178	1.00	86.88	A16S
ATOM	7505	C2	U	A	359	151.068	57.237	10.794	1.00	86.88	A16S
ATOM	7506	O2	U	A	359	151.309	56.657	9.744	1.00	86.88	A16S
ATOM	7507	N3	U	A	359	150.325	58.385	10.839	1.00	86.88	A16S
ATOM	7508	C4	U	A	359	149.997	59.118	11.959	1.00	86.88	A16S
ATOM	7509	O4	U	A	359	149.355	60.163	11.826	1.00	86.88	A16S
ATOM	7510	C5	U	A	359	150.491	58.584	13.190	1.00	86.88	A16S
ATOM	7511	C2*	U	A	359	153.819	55.963	11.747	1.00	77.92	A16S
ATOM	7512	O2*	U	A	359	154.390	54.962	10.939	1.00	77.92	A16S
ATOM	7513	C3*	U	A	359	154.394	56.043	13.155	1.00	77.92	A16S
ATOM	7514	O3*	U	A	359	155.791	55.802	13.181	1.00	77.92	A16S
ATOM	7515	P	A	A	360	156.803	57.019	12.910	1.00	74.13	A16S
ATOM	7516	O1P	A	A	360	158.195	56.524	13.055	1.00	92.64	A16S
ATOM	7517	O2P	A	A	360	156.349	58.180	13.720	1.00	92.64	A16S
ATOM	7518	O5*	A	A	360	156.573	57.342	11.370	1.00	74.13	A16S
ATOM	7519	C5*	A	A	360	156.973	56.394	10.378	1.00	74.13	A16S
ATOM	7520	C4*	A	A	360	156.745	56.948	9.003	1.00	74.13	A16S
ATOM	7521	O4*	A	A	360	155.326	57.058	8.752	1.00	74.13	A16S
ATOM	7522	C1*	A	A	360	155.078	58.195	7.952	1.00	74.13	A16S
ATOM	7523	N9	A	A	360	154.196	59.086	8.705	1.00	92.64	A16S
ATOM	7524	C4	A	A	360	153.343	60.009	8.160	1.00	92.64	A16S
ATOM	7525	N3	A	A	360	153.170	60.281	6.859	1.00	92.64	A16S
ATOM	7526	C2	A	A	360	152.254	61.230	6.698	1.00	92.64	A16S
ATOM	7527	N1	A	A	360	151.540	61.883	7.618	1.00	92.64	A16S
ATOM	7528	C6	A	A	360	151.732	61.580	8.917	1.00	92.64	A16S
ATOM	7529	N6	A	A	360	151.003	62.221	9.830	1.00	92.64	A16S
ATOM	7530	C5	A	A	360	152.690	60.597	9.225	1.00	92.64	A16S
ATOM	7531	N7	A	A	360	153.135	60.065	10.428	1.00	92.64	A16S
ATOM	7532	C8	A	A	360	154.026	59.177	10.066	1.00	92.64	A16S
ATOM	7533	C2*	A	A	360	156.431	58.818	7.597	1.00	74.13	A16S
ATOM	7534	O2*	A	A	360	156.878	58.277	6.366	1.00	74.13	A16S
ATOM	7535	C3*	A	A	360	157.299	58.336	8.748	1.00	74.13	A16S
ATOM	7536	O3*	A	A	360	158.666	58.262	8.387	1.00	74.13	A16S
ATOM	7537	P	G	A	361	159.644	59.491	8.718	1.00	75.40	A16S
ATOM	7538	O1P	G	A	361	159.421	59.872	10.145	1.00	91.95	A16S
ATOM	7539	O2P	G	A	361	161.014	59.120	8.264	1.00	91.95	A16S



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ATOM	7540	O5*	G	A	361	159.097	60.659	7.778	1.00	75.40	A16S
ATOM	7541	C5*	G	A	361	159.101	60.503	6.347	1.00	75.40	A16S
ATOM	7542	C4*	G	A	361	158.387	61.653	5.674	1.00	75.40	A16S
ATOM	7543	O4*	G	A	361	156.946	61.536	5.824	1.00	75.40	A16S
ATOM	7544	C1*	G	A	361	156.366	62.827	5.905	1.00	75.40	A16S
ATOM	7545	N9	G	A	361	155.786	62.971	7.238	1.00	91.95	A16S
ATOM	7546	C4	G	A	361	154.689	63.727	7.597	1.00	91.95	A16S
ATOM	7547	N3	G	A	361	153.906	64.448	6.765	1.00	91.95	A16S
ATOM	7548	C2	G	A	361	152.954	65.097	7.425	1.00	91.95	A16S
ATOM	7549	N2	G	A	361	152.084	65.869	6.765	1.00	91.95	A16S
ATOM	7550	N1	G	A	361	152.784	65.041	8.784	1.00	91.95	A16S
ATOM	7551	C6	G	A	361	153.573	64.308	9.656	1.00	91.95	A16S
ATOM	7552	O6	G	A	361	153.336	64.335	10.860	1.00	91.95	A16S
ATOM	7553	C5	G	A	361	154.596	63.605	8.971	1.00	91.95	A16S
ATOM	7554	N7	G	A	361	155.589	62.768	9.459	1.00	91.95	A16S
ATOM	7555	C8	G	A	361	156.261	62.409	8.400	1.00	91.95	A16S
ATOM	7556	C2*	G	A	361	157.500	63.835	5.704	1.00	75.40	A16S
ATOM	7557	O2*	G	A	361	157.610	64.157	4.337	1.00	75.40	A16S
ATOM	7558	C3*	G	A	361	158.703	63.039	6.186	1.00	75.40	A16S
ATOM	7559	O3*	G	A	361	159.934	63.522	5.701	1.00	75.40	A16S
ATOM	7560	P	G	A	362	160.912	64.286	6.713	1.00	72.31	A16S
ATOM	7561	O1P	G	A	362	162.163	64.672	6.016	1.00	96.92	A16S
ATOM	7562	O2P	G	A	362	160.982	63.493	7.964	1.00	96.92	A16S
ATOM	7563	O5*	G	A	362	160.118	65.628	7.009	1.00	72.31	A16S
ATOM	7564	C5*	G	A	362	159.626	66.426	5.921	1.00	72.31	A16S
ATOM	7565	C4*	G	A	362	158.718	67.520	6.426	1.00	72.31	A16S
ATOM	7566	O4*	G	A	362	157.466	66.953	6.894	1.00	72.31	A16S
ATOM	7567	C1*	G	A	362	156.966	67.728	7.970	1.00	72.31	A16S
ATOM	7568	N9	G	A	362	156.981	66.899	9.173	1.00	96.92	A16S
ATOM	7569	C4	G	A	362	156.044	66.893	10.174	1.00	96.92	A16S
ATOM	7570	N3	G	A	362	154.922	67.640	10.213	1.00	96.92	A16S
ATOM	7571	C2	G	A	362	154.233	67.430	11.314	1.00	96.92	A16S
ATOM	7572	N2	G	A	362	153.088	68.091	11.522	1.00	96.92	A16S
ATOM	7573	N1	G	A	362	154.613	66.552	12.296	1.00	96.92	A16S
ATOM	7574	C6	G	A	362	155.761	65.764	12.272	1.00	96.92	A16S
ATOM	7575	O6	G	A	362	156.004	64.985	13.207	1.00	96.92	A16S
ATOM	7576	C5	G	A	362	156.510	65.986	11.106	1.00	96.92	A16S
ATOM	7577	N7	G	A	362	157.710	65.424	10.695	1.00	96.92	A16S
ATOM	7578	C8	G	A	362	157.949	65.990	9.544	1.00	96.92	A16S
ATOM	7579	C2*	G	A	362	157.903	68.928	8.127	1.00	72.31	A16S
ATOM	7580	O2*	G	A	362	157.451	69.999	7.312	1.00	72.31	A16S
ATOM	7581	C3*	G	A	362	159.207	68.360	7.598	1.00	72.31	A16S
ATOM	7582	O3*	G	A	362	160.124	69.382	7.236	1.00	72.31	A16S
ATOM	7583	P	A	A	363	161.348	69.712	8.217	1.00	76.54	A16S
ATOM	7584	O1P	A	A	363	161.654	68.427	8.896	1.00	76.89	A16S
ATOM	7585	O2P	A	A	363	162.426	70.440	7.490	1.00	76.89	A16S
ATOM	7586	O5*	A	A	363	160.714	70.694	9.298	1.00	76.54	A16S
ATOM	7587	C5*	A	A	363	161.539	71.318	10.313	1.00	76.54	A16S
ATOM	7588	C4*	A	A	363	160.726	72.305	11.127	1.00	76.54	A16S
ATOM	7589	O4*	A	A	363	160.442	73.500	10.355	1.00	76.54	A16S
ATOM	7590	C1*	A	A	363	159.152	73.981	10.680	1.00	76.54	A16S
ATOM	7591	N9	A	A	363	158.339	73.966	9.466	1.00	76.89	A16S
ATOM	7592	C4	A	A	363	157.195	74.694	9.249	1.00	76.89	A16S
ATOM	7593	N3	A	A	363	156.608	75.567	10.089	1.00	76.89	A16S
ATOM	7594	C2	A	A	363	155.507	76.083	9.537	1.00	76.89	A16S
ATOM	7595	N1	A	A	363	154.970	75.849	8.330	1.00	76.89	A16S
ATOM	7596	C6	A	A	363	155.594	74.977	7.508	1.00	76.89	A16S
ATOM	7597	N6	A	A	363	155.078	74.760	6.296	1.00	76.89	A16S
ATOM	7598	C5	A	A	363	156.765	74.351	7.979	1.00	76.89	A16S
ATOM	7599	N7	A	A	363	157.625	73.427	7.403	1.00	76.89	A16S
ATOM	7600	C8	A	A	363	158.539	73.233	8.322	1.00	76.89	A16S
ATOM	7601	C2*	A	A	363	158.576	73.082	11.776	1.00	76.54	A16S
ATOM	7602	O2*	A	A	363	158.795	73.673	13.043	1.00	76.54	A16S
ATOM	7603	C3*	A	A	363	159.369	71.798	11.576	1.00	76.54	A16S
ATOM	7604	O3*	A	A	363	159.497	71.057	12.776	1.00	76.54	A16S
ATOM	7605	P	A	A	364	158.516	69.817	13.055	1.00	74.80	A16S
ATOM	7606	O1P	A	A	364	158.857	69.336	14.429	1.00	93.68	A16S
ATOM	7607	O2P	A	A	364	158.568	68.870	11.901	1.00	93.68	A16S
ATOM	7608	O5*	A	A	364	157.072	70.485	13.092	1.00	74.80	A16S
ATOM	7609	C5*	A	A	364	156.743	71.439	14.115	1.00	74.80	A16S
ATOM	7610	C4*	A	A	364	155.334	71.925	13.932	1.00	74.80	A16S
ATOM	7611	O4*	A	A	364	155.245	72.671	12.704	1.00	74.80	A16S
ATOM	7612	C1*	A	A	364	153.978	72.467	12.120	1.00	74.80	A16S
ATOM	7613	N9	A	A	364	154.193	72.078	10.733	1.00	93.68	A16S
ATOM	7614	C4	A	A	364	153.519	72.588	9.656	1.00	93.68	A16S
ATOM	7615	N3	A	A	364	152.542	73.511	9.673	1.00	93.68	A16S
ATOM	7616	C2	A	A	364	152.122	73.768	8.441	1.00	93.68	A16S



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ATOM	7617	N1	A	A 364	152.534	73.245	7.282	1.00	93.68	A16S
ATOM	7618	C6	A	A 364	153.521	72.321	7.302	1.00	93.68	A16S
ATOM	7619	N6	A	A 364	153.935	71.802	6.141	1.00	93.68	A16S
ATOM	7620	C5	A	A 364	154.053	71.965	8.551	1.00	93.68	A16S
ATOM	7621	N7	A	A 364	155.047	71.073	8.924	1.00	93.68	A16S
ATOM	7622	C8	A	A 364	155.088	71.177	10.226	1.00	93.68	A16S
ATOM	7623	C2*	A	A 364	153.184	71.483	12.985	1.00	74.80	A16S
ATOM	7624	O2*	A	A 364	152.218	72.186	13.744	1.00	74.80	A16S
ATOM	7625	C3*	A	A 364	154.290	70.831	13.814	1.00	74.80	A16S
ATOM	7626	O3*	A	A 364	153.876	70.470	15.123	1.00	74.80	A16S
ATOM	7627	P	U	A 365	153.098	69.096	15.360	1.00	66.79	A16S
ATOM	7628	O1P	U	A 365	153.240	68.744	16.794	1.00	78.62	A16S
ATOM	7629	O2P	U	A 365	153.528	68.130	14.321	1.00	78.62	A16S
ATOM	7630	O5*	U	A 365	151.586	69.494	15.068	1.00	66.79	A16S
ATOM	7631	C5*	U	A 365	150.868	70.379	15.941	1.00	66.79	A16S
ATOM	7632	C4*	U	A 365	149.467	70.571	15.429	1.00	66.79	A16S
ATOM	7633	O4*	U	A 365	149.479	71.425	14.272	1.00	66.79	A16S
ATOM	7634	C1*	U	A 365	148.336	71.136	13.499	1.00	66.79	A16S
ATOM	7635	N1	U	A 365	148.640	71.381	12.082	1.00	78.62	A16S
ATOM	7636	C6	U	A 365	147.861	72.243	11.357	1.00	78.62	A16S
ATOM	7637	C2	U	A 365	149.730	70.756	11.507	1.00	78.62	A16S
ATOM	7638	O2	U	A 365	150.420	69.946	12.099	1.00	78.62	A16S
ATOM	7639	N3	U	A 365	149.979	71.113	10.205	1.00	78.62	A16S
ATOM	7640	C4	U	A 365	149.255	72.002	9.435	1.00	78.62	A16S
ATOM	7641	O4	U	A 365	149.658	72.302	8.311	1.00	78.62	A16S
ATOM	7642	C5	U	A 365	148.123	72.566	10.091	1.00	78.62	A16S
ATOM	7643	C2*	U	A 365	147.803	69.748	13.887	1.00	66.79	A16S
ATOM	7644	O2*	U	A 365	146.455	69.817	14.308	1.00	66.79	A16S
ATOM	7645	C3*	U	A 365	148.796	69.286	14.967	1.00	66.79	A16S
ATOM	7646	O3*	U	A 365	148.145	68.703	16.102	1.00	66.79	A16S
ATOM	7647	P	C	A 366	148.103	67.100	16.298	1.00	82.70	A16S
ATOM	7648	O1P	C	A 366	149.505	66.576	16.299	1.00	79.67	A16S
ATOM	7649	O2P	C	A 366	147.098	66.535	15.347	1.00	79.67	A16S
ATOM	7650	O5*	C	A 366	147.510	66.934	17.768	1.00	82.70	A16S
ATOM	7651	C5*	C	A 366	148.087	67.633	18.887	1.00	82.70	A16S
ATOM	7652	C4*	C	A 366	147.049	67.821	19.974	1.00	82.70	A16S
ATOM	7653	O4*	C	A 366	146.105	68.868	19.608	1.00	82.70	A16S
ATOM	7654	C1*	C	A 366	144.769	68.407	19.760	1.00	82.70	A16S
ATOM	7655	N1	C	A 366	143.964	68.982	18.662	1.00	79.67	A16S
ATOM	7656	C6	C	A 366	144.548	69.298	17.469	1.00	79.67	A16S
ATOM	7657	C2	C	A 366	142.597	69.224	18.858	1.00	79.67	A16S
ATOM	7658	O2	C	A 366	142.078	68.900	19.915	1.00	79.67	A16S
ATOM	7659	N3	C	A 366	141.878	69.807	17.879	1.00	79.67	A16S
ATOM	7660	C4	C	A 366	142.471	70.144	16.733	1.00	79.67	A16S
ATOM	7661	N4	C	A 366	141.741	70.760	15.804	1.00	79.67	A16S
ATOM	7662	C5	C	A 366	143.847	69.876	16.489	1.00	79.67	A16S
ATOM	7663	C2*	C	A 366	144.815	66.881	19.748	1.00	82.70	A16S
ATOM	7664	O2*	C	A 366	143.740	66.345	20.482	1.00	82.70	A16S
ATOM	7665	C3*	C	A 366	146.213	66.593	20.307	1.00	82.70	A16S
ATOM	7666	O3*	C	A 366	146.537	65.834	21.511	1.00	82.70	A16S
ATOM	7667	P	U	A 367	146.240	66.428	22.993	1.00	76.36	A16S
ATOM	7668	O1P	U	A 367	145.882	67.874	22.880	1.00101.04	A16S	A16S
ATOM	7669	O2P	U	A 367	147.388	66.026	23.848	1.00101.04	A16S	A16S
ATOM	7670	O5*	U	A 367	144.959	65.629	23.518	1.00	76.36	A16S
ATOM	7671	C5*	U	A 367	144.696	64.259	23.124	1.00	76.36	A16S
ATOM	7672	C4*	U	A 367	143.569	63.702	23.957	1.00	76.36	A16S
ATOM	7673	O4*	U	A 367	142.476	64.651	23.965	1.00	76.36	A16S
ATOM	7674	C1*	U	A 367	141.287	64.016	23.557	1.00	76.36	A16S
ATOM	7675	N1	U	A 367	140.487	64.984	22.788	1.00101.04	A16S	A16S
ATOM	7676	C6	U	A 367	140.878	65.410	21.541	1.00101.04	A16S	A16S
ATOM	7677	C2	U	A 367	139.321	65.463	23.367	1.00101.04	A16S	A16S
ATOM	7678	O2	U	A 367	138.933	65.113	24.470	1.00101.04	A16S	A16S
ATOM	7679	N3	U	A 367	138.627	66.370	22.605	1.00101.04	A16S	A16S
ATOM	7680	C4	U	A 367	138.966	66.838	21.355	1.00101.04	A16S	A16S
ATOM	7681	O4	U	A 367	138.244	67.665	20.799	1.00101.04	A16S	A16S
ATOM	7682	C5	U	A 367	140.176	66.295	20.826	1.00101.04	A16S	A16S
ATOM	7683	C2*	U	A 367	141.710	62.766	22.789	1.00	76.36	A16S
ATOM	7684	O2*	U	A 367	140.668	61.808	22.807	1.00	76.36	A16S
ATOM	7685	C3*	U	A 367	142.983	62.359	23.537	1.00	76.36	A16S
ATOM	7686	O3*	U	A 367	142.653	61.631	24.729	1.00	76.36	A16S
ATOM	7687	P	U	A 368	143.525	60.340	25.167	1.00	78.82	A16S
ATOM	7688	O1P	U	A 368	143.141	60.010	26.573	1.00	93.84	A16S
ATOM	7689	O2P	U	A 368	144.964	60.546	24.823	1.00	93.84	A16S
ATOM	7690	O5*	U	A 368	142.957	59.181	24.241	1.00	78.82	A16S
ATOM	7691	C5*	U	A 368	141.576	58.810	24.311	1.00	78.82	A16S
ATOM	7692	C4*	U	A 368	141.078	58.448	22.943	1.00	78.82	A16S
ATOM	7693	O4*	U	A 368	141.904	57.401	22.390	1.00	78.82	A16S



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ATOM	7694	C1*	U	A	368	141.121	56.612	21.527	1.00	78.82	A16S
ATOM	7695	N1	U	A	368	141.433	55.195	21.758	1.00	93.84	A16S
ATOM	7696	C6	U	A	368	140.773	54.441	22.699	1.00	93.84	A16S
ATOM	7697	C2	U	A	368	142.417	54.635	20.960	1.00	93.84	A16S
ATOM	7698	O2	U	A	368	143.063	55.286	20.141	1.00	93.84	A16S
ATOM	7699	N3	U	A	368	142.624	53.292	21.155	1.00	93.84	A16S
ATOM	7700	C4	U	A	368	141.974	52.476	22.047	1.00	93.84	A16S
ATOM	7701	O4	U	A	368	142.175	51.268	22.004	1.00	93.84	A16S
ATOM	7702	C5	U	A	368	141.004	53.137	22.866	1.00	93.84	A16S
ATOM	7703	C2*	U	A	368	139.654	57.034	21.650	1.00	78.82	A16S
ATOM	7704	O2*	U	A	368	139.262	57.767	20.513	1.00	78.82	A16S
ATOM	7705	C3*	U	A	368	139.670	57.890	22.909	1.00	78.82	A16S
ATOM	7706	O3*	U	A	368	138.750	58.958	22.790	1.00	78.82	A16S
ATOM	7707	P	C	A	369	137.220	58.734	23.193	1.00	81.96	A16S
ATOM	7708	O1P	C	A	369	137.034	57.319	23.612	1.00	91.59	A16S
ATOM	7709	O2P	C	A	369	136.392	59.285	22.099	1.00	91.59	A16S
ATOM	7710	O5*	C	A	369	137.042	59.658	24.472	1.00	81.96	A16S
ATOM	7711	C5*	C	A	369	137.754	59.377	25.687	1.00	81.96	A16S
ATOM	7712	C4*	C	A	369	137.383	60.389	26.730	1.00	81.96	A16S
ATOM	7713	O4*	C	A	369	137.853	61.684	26.291	1.00	81.96	A16S
ATOM	7714	C1*	C	A	369	136.870	62.667	26.553	1.00	81.96	A16S
ATOM	7715	N1	C	A	369	136.442	63.258	25.271	1.00	91.59	A16S
ATOM	7716	C6	C	A	369	136.823	62.714	24.074	1.00	91.59	A16S
ATOM	7717	C2	C	A	369	135.637	64.396	25.299	1.00	91.59	A16S
ATOM	7718	O2	C	A	369	135.291	64.857	26.404	1.00	91.59	A16S
ATOM	7719	N3	C	A	369	135.249	64.962	24.130	1.00	91.59	A16S
ATOM	7720	C4	C	A	369	135.633	64.428	22.972	1.00	91.59	A16S
ATOM	7721	N4	C	A	369	135.235	65.019	21.853	1.00	91.59	A16S
ATOM	7722	C5	C	A	369	136.444	63.263	22.914	1.00	91.59	A16S
ATOM	7723	C2*	C	A	369	135.724	62.000	27.310	1.00	81.96	A16S
ATOM	7724	O2*	C	A	369	135.890	62.225	28.693	1.00	81.96	A16S
ATOM	7725	C3*	C	A	369	135.883	60.547	26.886	1.00	81.96	A16S
ATOM	7726	O3*	C	A	369	135.370	59.628	27.833	1.00	81.96	A16S
ATOM	7727	P	C	A	370	133.839	59.160	27.729	1.00	82.99	A16S
ATOM	7728	O1P	C	A	370	133.565	58.732	26.329	1.00	88.67	A16S
ATOM	7729	O2P	C	A	370	133.572	58.221	28.849	1.00	88.67	A16S
ATOM	7730	O5*	C	A	370	133.023	60.500	27.989	1.00	82.99	A16S
ATOM	7731	C5*	C	A	370	133.039	61.126	29.280	1.00	82.99	A16S
ATOM	7732	C4*	C	A	370	131.897	62.097	29.402	1.00	82.99	A16S
ATOM	7733	O4*	C	A	370	132.228	63.345	28.739	1.00	82.99	A16S
ATOM	7734	C1*	C	A	370	131.050	63.907	28.179	1.00	82.99	A16S
ATOM	7735	N1	C	A	370	131.220	64.060	26.719	1.00	88.67	A16S
ATOM	7736	C6	C	A	370	132.178	63.363	26.038	1.00	88.67	A16S
ATOM	7737	C2	C	A	370	130.362	64.923	26.034	1.00	88.67	A16S
ATOM	7738	O2	C	A	370	129.531	65.574	26.678	1.00	88.67	A16S
ATOM	7739	N3	C	A	370	130.463	65.030	24.691	1.00	88.67	A16S
ATOM	7740	C4	C	A	370	131.388	64.327	24.036	1.00	88.67	A16S
ATOM	7741	N4	C	A	370	131.443	64.446	22.712	1.00	88.67	A16S
ATOM	7742	C5	C	A	370	132.295	63.467	24.710	1.00	88.67	A16S
ATOM	7743	C2*	C	A	370	129.879	62.983	28.530	1.00	82.99	A16S
ATOM	7744	O2*	C	A	370	129.248	63.492	29.682	1.00	82.99	A16S
ATOM	7745	C3*	C	A	370	130.588	61.652	28.766	1.00	82.99	A16S
ATOM	7746	O3*	C	A	370	129.860	60.727	29.579	1.00	82.99	A16S
ATOM	7747	P	G	A	371	128.848	59.670	28.884	1.00	77.79	A16S
ATOM	7748	O1P	G	A	371	128.243	58.811	29.941	1.00	85.48	A16S
ATOM	7749	O2P	G	A	371	129.498	59.034	27.692	1.00	85.48	A16S
ATOM	7750	O5*	G	A	371	127.673	60.598	28.384	1.00	77.79	A16S
ATOM	7751	C5*	G	A	371	127.123	61.552	29.281	1.00	77.79	A16S
ATOM	7752	C4*	G	A	371	126.130	62.407	28.572	1.00	77.79	A16S
ATOM	7753	O4*	G	A	371	126.775	63.492	27.861	1.00	77.79	A16S
ATOM	7754	C1*	G	A	371	126.052	63.762	26.671	1.00	77.79	A16S
ATOM	7755	N9	G	A	371	126.922	63.497	25.530	1.00	85.48	A16S
ATOM	7756	C4	G	A	371	126.743	63.930	24.237	1.00	85.48	A16S
ATOM	7757	N3	G	A	371	125.742	64.712	23.789	1.00	85.48	A16S
ATOM	7758	C2	G	A	371	125.850	64.961	22.493	1.00	85.48	A16S
ATOM	7759	N2	G	A	371	124.958	65.745	21.883	1.00	85.48	A16S
ATOM	7760	N1	G	A	371	126.844	64.465	21.698	1.00	85.48	A16S
ATOM	7761	C6	G	A	371	127.879	63.649	22.135	1.00	85.48	A16S
ATOM	7762	O6	G	A	371	128.722	63.238	21.329	1.00	85.48	A16S
ATOM	7763	C5	G	A	371	127.790	63.394	23.529	1.00	85.48	A16S
ATOM	7764	N7	G	A	371	128.621	62.657	24.359	1.00	85.48	A16S
ATOM	7765	C8	G	A	371	128.067	62.747	25.533	1.00	85.48	A16S
ATOM	7766	C2*	G	A	371	124.832	62.840	26.670	1.00	77.79	A16S
ATOM	7767	O2*	G	A	371	123.793	63.546	27.316	1.00	77.79	A16S
ATOM	7768	C3*	G	A	371	125.329	61.676	27.519	1.00	77.79	A16S
ATOM	7769	O3*	G	A	371	124.335	60.850	28.120	1.00	77.79	A16S
ATOM	7770	P	C	A	372	123.693	59.638	27.280	1.00	81.31	A16S



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ATOM	7771	O1P	C	A	372	122.898	58.824	28.230	1.00	84.66	A16S
ATOM	7772	O2P	C	A	372	124.754	59.001	26.464	1.00	84.66	A16S
ATOM	7773	O5*	C	A	372	122.675	60.413	26.343	1.00	81.31	A16S
ATOM	7774	C5*	C	A	372	122.033	61.599	26.866	1.00	81.31	A16S
ATOM	7775	C4*	C	A	372	121.343	62.368	25.780	1.00	81.31	A16S
ATOM	7776	O4*	C	A	372	122.235	62.736	24.718	1.00	81.31	A16S
ATOM	7777	C1*	C	A	372	121.457	63.024	23.582	1.00	81.31	A16S
ATOM	7778	N1	C	A	372	122.326	62.874	22.400	1.00	84.66	A16S
ATOM	7779	C6	C	A	372	123.480	62.145	22.471	1.00	84.66	A16S
ATOM	7780	C2	C	A	372	121.958	63.487	21.201	1.00	84.66	A16S
ATOM	7781	O2	C	A	372	120.917	64.170	21.166	1.00	84.66	A16S
ATOM	7782	N3	C	A	372	122.749	63.326	20.110	1.00	84.66	A16S
ATOM	7783	C4	C	A	372	123.862	62.597	20.192	1.00	84.66	A16S
ATOM	7784	N4	C	A	372	124.593	62.439	19.093	1.00	84.66	A16S
ATOM	7785	C5	C	A	372	124.270	61.989	21.403	1.00	84.66	A16S
ATOM	7786	C2*	C	A	372	120.257	62.067	23.641	1.00	81.31	A16S
ATOM	7787	O2*	C	A	372	119.058	62.533	23.044	1.00	81.31	A16S
ATOM	7788	C3*	C	A	372	120.260	61.570	25.108	1.00	81.31	A16S
ATOM	7789	O3*	C	A	372	119.129	61.654	26.001	1.00	81.31	A16S
ATOM	7790	P	A	A	373	118.334	63.040	26.208	1.00	80.56	A16S
ATOM	7791	O1P	A	A	373	116.912	62.638	26.460	1.00	102.17	A16S
ATOM	7792	O2P	A	A	373	118.650	63.980	25.093	1.00	102.17	A16S
ATOM	7793	O5*	A	A	373	118.909	63.716	27.532	1.00	80.56	A16S
ATOM	7794	C5*	A	A	373	117.989	64.343	28.467	1.00	80.56	A16S
ATOM	7795	C4*	A	A	373	117.984	65.870	28.345	1.00	80.56	A16S
ATOM	7796	O4*	A	A	373	119.205	66.421	28.889	1.00	80.56	A16S
ATOM	7797	C1*	A	A	373	119.538	67.604	28.193	1.00	80.56	A16S
ATOM	7798	N9	A	A	373	120.823	67.393	27.526	1.00	102.17	A16S
ATOM	7799	C4	A	A	373	121.544	68.324	26.822	1.00	102.17	A16S
ATOM	7800	N3	A	A	373	121.215	69.603	26.586	1.00	102.17	A16S
ATOM	7801	C2	A	A	373	122.161	70.201	25.874	1.00	102.17	A16S
ATOM	7802	N1	A	A	373	123.309	69.706	25.412	1.00	102.17	A16S
ATOM	7803	C6	A	A	373	123.605	68.418	25.674	1.00	102.17	A16S
ATOM	7804	N6	A	A	373	124.750	67.920	25.227	1.00	102.17	A16S
ATOM	7805	C5	A	A	373	122.688	67.677	26.410	1.00	102.17	A16S
ATOM	7806	N7	A	A	373	122.690	66.361	26.834	1.00	102.17	A16S
ATOM	7807	C8	A	A	373	121.565	66.240	27.484	1.00	102.17	A16S
ATOM	7808	C2*	A	A	373	118.401	67.919	27.227	1.00	80.56	A16S
ATOM	7809	O2*	A	A	373	117.499	68.768	27.900	1.00	80.56	A16S
ATOM	7810	C3*	A	A	373	117.800	66.542	26.985	1.00	80.56	A16S
ATOM	7811	O3*	A	A	373	116.418	66.694	26.655	1.00	80.56	A16S
ATOM	7812	P	A	A	374	115.985	67.183	25.175	1.00	75.88	A16S
ATOM	7813	O1P	A	A	374	114.519	67.469	25.205	1.00	91.33	A16S
ATOM	7814	O2P	A	A	374	116.508	66.198	24.203	1.00	91.33	A16S
ATOM	7815	O5*	A	A	374	116.776	68.554	24.944	1.00	75.88	A16S
ATOM	7816	C5*	A	A	374	116.332	69.802	25.540	1.00	75.88	A16S
ATOM	7817	C4*	A	A	374	116.971	70.987	24.834	1.00	75.88	A16S
ATOM	7818	O4*	A	A	374	118.412	70.945	25.003	1.00	75.88	A16S
ATOM	7819	C1*	A	A	374	119.049	71.366	23.806	1.00	75.88	A16S
ATOM	7820	N9	A	A	374	119.866	70.257	23.306	1.00	91.33	A16S
ATOM	7821	C4	A	A	374	120.680	70.270	22.197	1.00	91.33	A16S
ATOM	7822	N3	A	A	374	120.880	71.287	21.339	1.00	91.33	A16S
ATOM	7823	C2	A	A	374	121.740	70.932	20.387	1.00	91.33	A16S
ATOM	7824	N1	A	A	374	122.371	69.768	20.208	1.00	91.33	A16S
ATOM	7825	C6	A	A	374	122.141	68.769	21.085	1.00	91.33	A16S
ATOM	7826	N6	A	A	374	122.758	67.603	20.901	1.00	91.33	A16S
ATOM	7827	C5	A	A	374	121.256	69.016	22.140	1.00	91.33	A16S
ATOM	7828	N7	A	A	374	120.812	68.225	23.185	1.00	91.33	A16S
ATOM	7829	C8	A	A	374	119.990	69.002	23.843	1.00	91.33	A16S
ATOM	7830	C2*	A	A	374	117.963	71.805	22.822	1.00	75.88	A16S
ATOM	7831	O2*	A	A	374	117.797	73.205	22.898	1.00	75.88	A16S
ATOM	7832	C3*	A	A	374	116.756	71.032	23.330	1.00	75.88	A16S
ATOM	7833	O3*	A	A	374	115.553	71.692	23.010	1.00	75.88	A16S
ATOM	7834	P	U	A	375	114.687	71.174	21.772	1.00	68.27	A16S
ATOM	7835	O1P	U	A	375	113.437	71.964	21.748	1.00	87.35	A16S
ATOM	7836	O2P	U	A	375	114.622	69.691	21.879	1.00	87.35	A16S
ATOM	7837	O5*	U	A	375	115.558	71.568	20.491	1.00	68.27	A16S
ATOM	7838	C5*	U	A	375	115.856	72.959	20.180	1.00	68.27	A16S
ATOM	7839	C4*	U	A	375	116.718	73.073	18.925	1.00	68.27	A16S
ATOM	7840	O4*	U	A	375	118.105	72.733	19.208	1.00	68.27	A16S
ATOM	7841	C1*	U	A	375	118.658	72.028	18.104	1.00	68.27	A16S
ATOM	7842	N1	U	A	375	118.984	70.660	18.548	1.00	87.35	A16S
ATOM	7843	C6	U	A	375	118.449	70.135	19.708	1.00	87.35	A16S
ATOM	7844	C2	U	A	375	119.843	69.909	17.771	1.00	87.35	A16S
ATOM	7845	O2	U	A	375	120.315	70.316	16.728	1.00	87.35	A16S
ATOM	7846	N3	U	A	375	120.117	68.653	18.258	1.00	87.35	A16S
ATOM	7847	C4	U	A	375	119.621	68.076	19.410	1.00	87.35	A16S



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ATOM	7848	O4	U	A	375	119.997	66.949	19.739	1.00	87.35	A16S
ATOM	7849	C5	U	A	375	118.728	68.905	20.147	1.00	87.35	A16S
ATOM	7850	C2*	U	A	375	117.621	72.051	16.978	1.00	68.27	A16S
ATOM	7851	O2*	U	A	375	117.834	73.185	16.173	1.00	68.27	A16S
ATOM	7852	C3*	U	A	375	116.324	72.184	17.757	1.00	68.27	A16S
ATOM	7853	O3*	U	A	375	115.298	72.758	16.971	1.00	68.27	A16S
ATOM	7854	P	G	A	376	114.183	71.802	16.338	1.00	62.37	A16S
ATOM	7855	O1P	G	A	376	113.171	72.637	15.635	1.00	85.64	A16S
ATOM	7856	O2P	G	A	376	113.757	70.893	17.433	1.00	85.64	A16S
ATOM	7857	O5*	G	A	376	114.992	70.948	15.260	1.00	62.37	A16S
ATOM	7858	C5*	G	A	376	115.668	71.610	14.174	1.00	62.37	A16S
ATOM	7859	C4*	G	A	376	116.620	70.674	13.455	1.00	62.37	A16S
ATOM	7860	O4*	G	A	376	117.806	70.397	14.253	1.00	62.37	A16S
ATOM	7861	C1*	G	A	376	118.306	69.113	13.922	1.00	62.37	A16S
ATOM	7862	N9	G	A	376	118.255	68.265	15.110	1.00	85.64	A16S
ATOM	7863	C4	G	A	376	118.854	67.036	15.262	1.00	85.64	A16S
ATOM	7864	N3	G	A	376	119.622	66.413	14.346	1.00	85.64	A16S
ATOM	7865	C2	G	A	376	120.061	65.249	14.782	1.00	85.64	A16S
ATOM	7866	N2	G	A	376	120.863	64.509	14.004	1.00	85.64	A16S
ATOM	7867	N1	G	A	376	119.753	64.726	16.016	1.00	85.64	A16S
ATOM	7868	C6	G	A	376	118.956	65.343	16.972	1.00	85.64	A16S
ATOM	7869	O6	G	A	376	118.735	64.777	18.053	1.00	85.64	A16S
ATOM	7870	C5	G	A	376	118.493	66.604	16.519	1.00	85.64	A16S
ATOM	7871	N7	G	A	376	117.695	67.544	17.149	1.00	85.64	A16S
ATOM	7872	C8	G	A	376	117.583	68.511	16.280	1.00	85.64	A16S
ATOM	7873	C2*	G	A	376	117.407	68.551	12.819	1.00	62.37	A16S
ATOM	7874	O2*	G	A	376	117.965	68.889	11.566	1.00	62.37	A16S
ATOM	7875	C3*	G	A	376	116.109	69.304	13.058	1.00	62.37	A16S
ATOM	7876	O3*	G	A	376	115.311	69.341	11.888	1.00	62.37	A16S
ATOM	7877	P	G	A	377	114.209	68.192	11.653	1.00	63.26	A16S
ATOM	7878	O1P	G	A	377	113.359	68.554	10.485	1.00	80.32	A16S
ATOM	7879	O2P	G	A	377	113.576	67.895	12.965	1.00	80.32	A16S
ATOM	7880	O5*	G	A	377	115.085	66.939	11.231	1.00	63.26	A16S
ATOM	7881	C5*	G	A	377	115.908	67.011	10.076	1.00	63.26	A16S
ATOM	7882	C4*	G	A	377	116.667	65.731	9.899	1.00	63.26	A16S
ATOM	7883	O4*	G	A	377	117.638	65.579	10.958	1.00	63.26	A16S
ATOM	7884	C1*	G	A	377	117.769	64.210	11.282	1.00	63.26	A16S
ATOM	7885	N9	G	A	377	117.349	64.043	12.667	1.00	80.32	A16S
ATOM	7886	C4	G	A	377	117.490	62.919	13.442	1.00	80.32	A16S
ATOM	7887	N3	G	A	377	118.081	61.766	13.069	1.00	80.32	A16S
ATOM	7888	C2	G	A	377	118.046	60.864	14.029	1.00	80.32	A16S
ATOM	7889	N2	G	A	377	118.607	59.670	13.837	1.00	80.32	A16S
ATOM	7890	N1	G	A	377	117.464	61.069	15.253	1.00	80.32	A16S
ATOM	7891	C6	G	A	377	116.846	62.249	15.654	1.00	80.32	A16S
ATOM	7892	O6	G	A	377	116.336	62.334	16.779	1.00	80.32	A16S
ATOM	7893	C5	G	A	377	116.894	63.229	14.641	1.00	80.32	A16S
ATOM	7894	N7	G	A	377	116.414	64.530	14.632	1.00	80.32	A16S
ATOM	7895	C8	G	A	377	116.709	64.973	13.445	1.00	80.32	A16S
ATOM	7896	C2*	G	A	377	116.885	63.421	10.312	1.00	63.26	A16S
ATOM	7897	O2*	G	A	377	117.679	63.036	9.204	1.00	63.26	A16S
ATOM	7898	C3*	G	A	377	115.844	64.461	9.931	1.00	63.26	A16S
ATOM	7899	O3*	G	A	377	115.286	64.220	8.655	1.00	63.26	A16S
ATOM	7900	P	G	A	378	113.871	63.484	8.539	1.00	73.69	A16S
ATOM	7901	O1P	G	A	378	113.491	63.544	7.093	1.00	72.05	A16S
ATOM	7902	O2P	G	A	378	112.942	64.046	9.562	1.00	72.05	A16S
ATOM	7903	O5*	G	A	378	114.243	61.981	8.902	1.00	73.69	A16S
ATOM	7904	C5*	G	A	378	115.140	61.267	8.045	1.00	73.69	A16S
ATOM	7905	C4*	G	A	378	115.271	59.829	8.462	1.00	73.69	A16S
ATOM	7906	O4*	G	A	378	116.116	59.723	9.631	1.00	73.69	A16S
ATOM	7907	C1*	G	A	378	115.696	58.620	10.412	1.00	73.69	A16S
ATOM	7908	N9	G	A	378	115.337	59.104	11.742	1.00	72.05	A16S
ATOM	7909	C4	G	A	378	115.343	58.370	12.898	1.00	72.05	A16S
ATOM	7910	N3	G	A	378	115.694	57.075	13.010	1.00	72.05	A16S
ATOM	7911	C2	G	A	378	115.629	56.656	14.258	1.00	72.05	A16S
ATOM	7912	N2	G	A	378	116.010	55.418	14.561	1.00	72.05	A16S
ATOM	7913	N1	G	A	378	115.206	57.428	15.309	1.00	72.05	A16S
ATOM	7914	C6	G	A	378	114.823	58.760	15.215	1.00	72.05	A16S
ATOM	7915	O6	G	A	378	114.443	59.363	16.221	1.00	72.05	A16S
ATOM	7916	C5	G	A	378	114.932	59.239	13.886	1.00	72.05	A16S
ATOM	7917	N7	G	A	378	114.685	60.497	13.364	1.00	72.05	A16S
ATOM	7918	C8	G	A	378	114.932	60.370	12.089	1.00	72.05	A16S
ATOM	7919	C2*	G	A	378	114.543	57.938	9.671	1.00	73.69	A16S
ATOM	7920	O2*	G	A	378	115.089	56.908	8.863	1.00	73.69	A16S
ATOM	7921	C3*	G	A	378	114.002	59.082	8.823	1.00	73.69	A16S
ATOM	7922	O3*	G	A	378	113.328	58.613	7.668	1.00	73.69	A16S
ATOM	7923	P	C	A	379	111.729	58.464	7.696	1.00	64.31	A16S
ATOM	7924	O1P	C	A	379	111.322	58.108	6.309	1.00	79.68	A16S



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ATOM	7925	O2P	C	A	379	111.102	59.638	8.369	1.00	79.68	A16S
ATOM	7926	O5*	C	A	379	111.492	57.211	8.644	1.00	64.31	A16S
ATOM	7927	C5*	C	A	379	111.851	55.891	8.214	1.00	64.31	A16S
ATOM	7928	C4*	C	A	379	111.679	54.914	9.349	1.00	64.31	A16S
ATOM	7929	O4*	C	A	379	112.604	55.239	10.421	1.00	64.31	A16S
ATOM	7930	C1*	C	A	379	112.030	54.894	11.661	1.00	64.31	A16S
ATOM	7931	N1	C	A	379	111.983	56.084	12.528	1.00	79.68	A16S
ATOM	7932	C6	C	A	379	111.734	57.326	12.015	1.00	79.68	A16S
ATOM	7933	C2	C	A	379	112.159	55.916	13.912	1.00	79.68	A16S
ATOM	7934	O2	C	A	379	112.454	54.795	14.351	1.00	79.68	A16S
ATOM	7935	N3	C	A	379	112.009	56.975	14.730	1.00	79.68	A16S
ATOM	7936	C4	C	A	379	111.712	58.169	14.225	1.00	79.68	A16S
ATOM	7937	N4	C	A	379	111.519	59.171	15.077	1.00	79.68	A16S
ATOM	7938	C5	C	A	379	111.588	58.385	12.822	1.00	79.68	A16S
ATOM	7939	C2*	C	A	379	110.637	54.320	11.391	1.00	64.31	A16S
ATOM	7940	O2*	C	A	379	110.745	52.914	11.392	1.00	64.31	A16S
ATOM	7941	C3*	C	A	379	110.314	54.893	10.015	1.00	64.31	A16S
ATOM	7942	O3*	C	A	379	109.393	54.086	9.272	1.00	64.31	A16S
ATOM	7943	P	G	A	380	107.824	54.474	9.242	1.00	75.18	A16S
ATOM	7944	O1P	G	A	380	107.113	53.498	8.359	1.00	100.26	A16S
ATOM	7945	O2P	G	A	380	107.719	55.919	8.959	1.00	100.26	A16S
ATOM	7946	O5*	G	A	380	107.358	54.267	10.754	1.00	75.18	A16S
ATOM	7947	C5*	G	A	380	107.490	52.982	11.388	1.00	75.18	A16S
ATOM	7948	C4*	G	A	380	107.144	53.063	12.858	1.00	75.18	A16S
ATOM	7949	O4*	G	A	380	108.168	53.782	13.595	1.00	75.18	A16S
ATOM	7950	C1*	G	A	380	107.581	54.414	14.722	1.00	75.18	A16S
ATOM	7951	N9	G	A	380	107.795	55.861	14.641	1.00	100.26	A16S
ATOM	7952	C4	G	A	380	107.810	56.726	15.710	1.00	100.26	A16S
ATOM	7953	N3	G	A	380	107.702	56.378	17.006	1.00	100.26	A16S
ATOM	7954	C2	G	A	380	107.693	57.430	17.800	1.00	100.26	A16S
ATOM	7955	N2	G	A	380	107.593	57.260	19.117	1.00	100.26	A16S
ATOM	7956	N1	G	A	380	107.784	58.724	17.365	1.00	100.26	A16S
ATOM	7957	C6	G	A	380	107.906	59.115	16.040	1.00	100.26	A16S
ATOM	7958	O6	G	A	380	107.985	60.319	15.763	1.00	100.26	A16S
ATOM	7959	C5	G	A	380	107.920	57.987	15.163	1.00	100.26	A16S
ATOM	7960	N7	G	A	380	108.021	57.916	13.779	1.00	100.26	A16S
ATOM	7961	C8	G	A	380	107.955	56.637	13.514	1.00	100.26	A16S
ATOM	7962	C2*	G	A	380	106.082	54.095	14.701	1.00	75.18	A16S
ATOM	7963	O2*	G	A	380	105.783	52.994	15.545	1.00	75.18	A16S
ATOM	7964	C3*	G	A	380	105.857	53.775	13.230	1.00	75.18	A16S
ATOM	7965	O3*	G	A	380	104.694	52.990	13.020	1.00	75.18	A16S
ATOM	7966	P	C	A	381	103.428	53.656	12.292	1.00	75.87	A16S
ATOM	7967	O1P	C	A	381	103.962	54.334	11.087	1.00	107.11	A16S
ATOM	7968	O2P	C	A	381	102.370	52.615	12.137	1.00	107.11	A16S
ATOM	7969	O5*	C	A	381	102.940	54.780	13.312	1.00	75.87	A16S
ATOM	7970	C5*	C	A	381	101.890	55.696	12.949	1.00	75.87	A16S
ATOM	7971	C4*	C	A	381	101.143	56.179	14.180	1.00	75.87	A16S
ATOM	7972	O4*	C	A	381	100.307	55.117	14.726	1.00	75.87	A16S
ATOM	7973	C1*	C	A	381	100.243	55.240	16.142	1.00	75.87	A16S
ATOM	7974	N1	C	A	381	100.789	54.011	16.769	1.00	107.11	A16S
ATOM	7975	C6	C	A	381	101.275	52.983	16.011	1.00	107.11	A16S
ATOM	7976	C2	C	A	381	100.807	53.916	18.173	1.00	107.11	A16S
ATOM	7977	O2	C	A	381	100.359	54.853	18.844	1.00	107.11	A16S
ATOM	7978	N3	C	A	381	101.316	52.806	18.760	1.00	107.11	A16S
ATOM	7979	C4	C	A	381	101.795	51.817	18.009	1.00	107.11	A16S
ATOM	7980	N4	C	A	381	102.299	50.749	18.632	1.00	107.11	A16S
ATOM	7981	C5	C	A	381	101.784	51.879	16.583	1.00	107.11	A16S
ATOM	7982	C2*	C	A	381	101.030	56.498	16.533	1.00	75.87	A16S
ATOM	7983	O2*	C	A	381	100.145	57.600	16.649	1.00	75.87	A16S
ATOM	7984	C3*	C	A	381	101.989	56.657	15.357	1.00	75.87	A16S
ATOM	7985	O3*	C	A	381	102.410	58.016	15.224	1.00	75.87	A16S
ATOM	7986	P	A	A	382	103.848	58.469	15.794	1.00	75.59	A16S
ATOM	7987	O1P	A	A	382	103.944	59.933	15.561	1.00	101.12	A16S
ATOM	7988	O2P	A	A	382	104.886	57.571	15.224	1.00	101.12	A16S
ATOM	7989	O5*	A	A	382	103.784	58.211	17.369	1.00	75.59	A16S
ATOM	7990	C5*	A	A	382	103.034	59.077	18.240	1.00	75.59	A16S
ATOM	7991	C4*	A	A	382	102.884	58.446	19.608	1.00	75.59	A16S
ATOM	7992	O4*	A	A	382	102.371	57.100	19.430	1.00	75.59	A16S
ATOM	7993	C1*	A	A	382	102.974	56.224	20.372	1.00	75.59	A16S
ATOM	7994	N9	A	A	382	103.674	55.168	19.632	1.00	101.12	A16S
ATOM	7995	C4	A	A	382	104.126	53.976	20.139	1.00	101.12	A16S
ATOM	7996	N3	A	A	382	104.051	53.548	21.408	1.00	101.12	A16S
ATOM	7997	C2	A	A	382	104.568	52.327	21.519	1.00	101.12	A16S
ATOM	7998	N1	A	A	382	105.111	51.549	20.579	1.00	101.12	A16S
ATOM	7999	C6	A	A	382	105.166	52.013	19.315	1.00	101.12	A16S
ATOM	8000	N6	A	A	382	105.688	51.237	18.371	1.00	101.12	A16S
ATOM	8001	C5	A	A	382	104.661	53.290	19.066	1.00	101.12	A16S



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ATOM	8002	N7	A	A	382	104.576	54.043	17.906	1.00101.12	A16S
ATOM	8003	C8	A	A	382	103.990	55.146	18.293	1.00101.12	A16S
ATOM	8004	C2*	A	A	382	103.872	57.058	21.290	1.00 75.59	A16S
ATOM	8005	O2*	A	A	382	103.186	57.365	22.491	1.00 75.59	A16S
ATOM	8006	C3*	A	A	382	104.166	58.277	20.417	1.00 75.59	A16S
ATOM	8007	O3*	A	A	382	104.443	59.430	21.207	1.00 75.59	A16S
ATOM	8008	P	A	A	383	105.921	59.648	21.809	1.00 88.96	A16S
ATOM	8009	O1P	A	A	383	105.939	60.914	22.591	1.00112.04	A16S
ATOM	8010	O2P	A	A	383	106.887	59.468	20.695	1.00112.04	A16S
ATOM	8011	O5*	A	A	383	106.091	58.454	22.852	1.00 88.96	A16S
ATOM	8012	C5*	A	A	383	105.408	58.482	24.120	1.00 88.96	A16S
ATOM	8013	C4*	A	A	383	105.637	57.195	24.857	1.00 88.96	A16S
ATOM	8014	O4*	A	A	383	105.097	56.106	24.066	1.00 88.96	A16S
ATOM	8015	C1*	A	A	383	105.944	54.974	24.173	1.00 88.96	A16S
ATOM	8016	N9	A	A	383	106.494	54.677	22.854	1.00112.04	A16S
ATOM	8017	C4	A	A	383	107.089	53.499	22.483	1.00112.04	A16S
ATOM	8018	N3	A	A	383	107.254	52.401	23.235	1.00112.04	A16S
ATOM	8019	C2	A	A	383	107.868	51.451	22.540	1.00112.04	A16S
ATOM	8020	N1	A	A	383	108.305	51.473	21.274	1.00112.04	A16S
ATOM	8021	C6	A	A	383	108.125	52.596	20.548	1.00112.04	A16S
ATOM	8022	N6	A	A	383	108.567	52.626	19.287	1.00112.04	A16S
ATOM	8023	C5	A	A	383	107.481	53.674	21.170	1.00112.04	A16S
ATOM	8024	N7	A	A	383	107.133	54.936	20.718	1.00112.04	A16S
ATOM	8025	C8	A	A	383	106.552	55.489	21.751	1.00112.04	A16S
ATOM	8026	C2*	A	A	383	107.071	55.322	25.144	1.00 88.96	A16S
ATOM	8027	O2*	A	A	383	106.770	54.842	26.439	1.00 88.96	A16S
ATOM	8028	C3*	A	A	383	107.101	56.840	25.047	1.00 88.96	A16S
ATOM	8029	O3*	A	A	383	107.658	57.427	26.211	1.00 88.96	A16S
ATOM	8030	P	G	A	384	109.051	58.223	26.108	1.00 90.11	A16S
ATOM	8031	O1P	G	A	384	109.624	58.331	27.482	1.00 90.72	A16S
ATOM	8032	O2P	G	A	384	108.772	59.459	25.322	1.00 90.72	A16S
ATOM	8033	O5*	G	A	384	110.005	57.286	25.230	1.00 90.11	A16S
ATOM	8034	C5*	G	A	384	110.467	56.014	25.731	1.00 90.11	A16S
ATOM	8035	C4*	G	A	384	110.918	55.114	24.594	1.00 90.11	A16S
ATOM	8036	O4*	G	A	384	109.996	55.246	23.477	1.00 90.11	A16S
ATOM	8037	C1*	G	A	384	110.690	55.036	22.264	1.00 90.11	A16S
ATOM	8038	N9	G	A	384	110.566	56.227	21.431	1.00 90.72	A16S
ATOM	8039	C4	G	A	384	110.805	56.297	20.079	1.00 90.72	A16S
ATOM	8040	N3	G	A	384	111.183	55.272	19.288	1.00 90.72	A16S
ATOM	8041	C2	G	A	384	111.323	55.649	18.029	1.00 90.72	A16S
ATOM	8042	N2	G	A	384	111.691	54.755	17.105	1.00 90.72	A16S
ATOM	8043	N1	G	A	384	111.112	56.928	17.584	1.00 90.72	A16S
ATOM	8044	C6	G	A	384	110.724	57.996	18.380	1.00 90.72	A16S
ATOM	8045	O6	G	A	384	110.551	59.105	17.874	1.00 90.72	A16S
ATOM	8046	C5	G	A	384	110.571	57.609	19.733	1.00 90.72	A16S
ATOM	8047	N7	G	A	384	110.195	58.351	20.843	1.00 90.72	A16S
ATOM	8048	C8	G	A	384	110.203	57.490	21.826	1.00 90.72	A16S
ATOM	8049	C2*	G	A	384	112.148	54.731	22.603	1.00 90.11	A16S
ATOM	8050	O2*	G	A	384	112.307	53.328	22.599	1.00 90.11	A16S
ATOM	8051	C3*	G	A	384	112.291	55.360	23.985	1.00 90.11	A16S
ATOM	8052	O3*	G	A	384	113.316	54.715	24.741	1.00 90.11	A16S
ATOM	8053	P	C	A	385	114.865	55.128	24.527	1.00 83.23	A16S
ATOM	8054	O1P	C	A	385	115.675	54.480	25.595	1.00 85.79	A16S
ATOM	8055	O2P	C	A	385	114.936	56.597	24.346	1.00 85.79	A16S
ATOM	8056	O5*	C	A	385	115.278	54.458	23.143	1.00 83.23	A16S
ATOM	8057	C5*	C	A	385	115.310	53.026	22.992	1.00 83.23	A16S
ATOM	8058	C4*	C	A	385	115.703	52.658	21.578	1.00 83.23	A16S
ATOM	8059	O4*	C	A	385	114.652	53.023	20.640	1.00 83.23	A16S
ATOM	8060	C1*	C	A	385	115.232	53.532	19.448	1.00 83.23	A16S
ATOM	8061	N1	C	A	385	114.854	54.954	19.317	1.00 85.79	A16S
ATOM	8062	C6	C	A	385	114.779	55.764	20.419	1.00 85.79	A16S
ATOM	8063	C2	C	A	385	114.574	55.469	18.045	1.00 85.79	A16S
ATOM	8064	O2	C	A	385	114.655	54.721	17.063	1.00 85.79	A16S
ATOM	8065	N3	C	A	385	114.221	56.768	17.920	1.00 85.79	A16S
ATOM	8066	C4	C	A	385	114.144	57.543	19.002	1.00 85.79	A16S
ATOM	8067	N4	C	A	385	113.783	58.808	18.834	1.00 85.79	A16S
ATOM	8068	C5	C	A	385	114.432	57.049	20.307	1.00 85.79	A16S
ATOM	8069	C2*	C	A	385	116.745	53.359	19.564	1.00 83.23	A16S
ATOM	8070	O2*	C	A	385	117.115	52.124	18.991	1.00 83.23	A16S
ATOM	8071	C3*	C	A	385	116.933	53.383	21.072	1.00 83.23	A16S
ATOM	8072	O3*	C	A	385	118.121	52.762	21.502	1.00 83.23	A16S
ATOM	8073	P	C	A	386	119.431	53.656	21.689	1.00 72.61	A16S
ATOM	8074	O1P	C	A	386	120.519	52.826	22.270	1.00 81.28	A16S
ATOM	8075	O2P	C	A	386	119.006	54.897	22.377	1.00 81.28	A16S
ATOM	8076	O5*	C	A	386	119.827	54.006	20.188	1.00 72.61	A16S
ATOM	8077	C5*	C	A	386	120.182	52.950	19.272	1.00 72.61	A16S
ATOM	8078	C4*	C	A	386	120.497	53.512	17.911	1.00 72.61	A16S



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ATOM	8079	O4*	C	A	386	119.277	53.889	17.233	1.00	72.61	A16S
ATOM	8080	C1*	C	A	386	119.519	55.027	16.431	1.00	72.61	A16S
ATOM	8081	N1	C	A	386	118.725	56.135	16.959	1.00	81.28	A16S
ATOM	8082	C6	C	A	386	118.337	56.159	18.267	1.00	81.28	A16S
ATOM	8083	C2	C	A	386	118.396	57.186	16.107	1.00	81.28	A16S
ATOM	8084	O2	C	A	386	118.734	57.119	14.916	1.00	81.28	A16S
ATOM	8085	N3	C	A	386	117.720	58.246	16.598	1.00	81.28	A16S
ATOM	8086	C4	C	A	386	117.366	58.270	17.883	1.00	81.28	A16S
ATOM	8087	N4	C	A	386	116.718	59.338	18.334	1.00	81.28	A16S
ATOM	8088	C5	C	A	386	117.666	57.197	18.766	1.00	81.28	A16S
ATOM	8089	C2*	C	A	386	121.003	55.369	16.544	1.00	72.61	A16S
ATOM	8090	O2*	C	A	386	121.697	54.763	15.473	1.00	72.61	A16S
ATOM	8091	C3*	C	A	386	121.350	54.765	17.892	1.00	72.61	A16S
ATOM	8092	O3*	C	A	386	122.725	54.464	18.006	1.00	72.61	A16S
ATOM	8093	P	U	A	387	123.684	55.478	18.786	1.00	73.95	A16S
ATOM	8094	O1P	U	A	387	125.074	54.929	18.732	1.00	98.17	A16S
ATOM	8095	O2P	U	A	387	123.056	55.771	20.105	1.00	98.17	A16S
ATOM	8096	O5*	U	A	387	123.601	56.792	17.888	1.00	73.95	A16S
ATOM	8097	C5*	U	A	387	123.909	56.744	16.475	1.00	73.95	A16S
ATOM	8098	C4*	U	A	387	123.739	58.110	15.828	1.00	73.95	A16S
ATOM	8099	O4*	U	A	387	122.335	58.470	15.695	1.00	73.95	A16S
ATOM	8100	C1*	U	A	387	122.206	59.884	15.724	1.00	73.95	A16S
ATOM	8101	N1	U	A	387	121.291	60.275	16.808	1.00	98.17	A16S
ATOM	8102	C6	U	A	387	121.217	59.567	17.979	1.00	98.17	A16S
ATOM	8103	C2	U	A	387	120.524	61.409	16.619	1.00	98.17	A16S
ATOM	8104	O2	U	A	387	120.515	62.031	15.575	1.00	98.17	A16S
ATOM	8105	N3	U	A	387	119.759	61.785	17.698	1.00	98.17	A16S
ATOM	8106	C4	U	A	387	119.670	61.140	18.917	1.00	98.17	A16S
ATOM	8107	O4	U	A	387	119.021	61.654	19.841	1.00	98.17	A16S
ATOM	8108	C5	U	A	387	120.454	59.948	19.010	1.00	98.17	A16S
ATOM	8109	C2*	U	A	387	123.606	60.472	15.919	1.00	73.95	A16S
ATOM	8110	O2*	U	A	387	124.125	60.825	14.655	1.00	73.95	A16S
ATOM	8111	C3*	U	A	387	124.363	59.301	16.531	1.00	73.95	A16S
ATOM	8112	O3*	U	A	387	125.750	59.389	16.273	1.00	73.95	A16S
ATOM	8113	P	G	A	388	126.777	59.413	17.505	1.00	70.87	A16S
ATOM	8114	O1P	G	A	388	127.215	58.019	17.778	1.00	75.38	A16S
ATOM	8115	O2P	G	A	388	126.130	60.223	18.580	1.00	75.38	A16S
ATOM	8116	O5*	G	A	388	128.045	60.196	16.953	1.00	70.87	A16S
ATOM	8117	C5*	G	A	388	128.030	61.624	16.882	1.00	70.87	A16S
ATOM	8118	C4*	G	A	388	129.408	62.136	16.603	1.00	70.87	A16S
ATOM	8119	O4*	G	A	388	130.310	61.560	17.576	1.00	70.87	A16S
ATOM	8120	C1*	G	A	388	131.334	60.858	16.921	1.00	70.87	A16S
ATOM	8121	N9	G	A	388	131.649	59.686	17.725	1.00	75.38	A16S
ATOM	8122	C4	G	A	388	132.765	59.512	18.500	1.00	75.38	A16S
ATOM	8123	N3	G	A	388	133.764	60.400	18.656	1.00	75.38	A16S
ATOM	8124	C2	G	A	388	134.701	59.947	19.475	1.00	75.38	A16S
ATOM	8125	N2	G	A	388	135.774	60.703	19.749	1.00	75.38	A16S
ATOM	8126	N1	G	A	388	134.658	58.722	20.086	1.00	75.38	A16S
ATOM	8127	C6	G	A	388	133.637	57.794	19.937	1.00	75.38	A16S
ATOM	8128	O6	G	A	388	133.694	56.717	20.536	1.00	75.38	A16S
ATOM	8129	C5	G	A	388	132.628	58.264	19.067	1.00	75.38	A16S
ATOM	8130	N7	G	A	388	131.448	57.665	18.659	1.00	75.38	A16S
ATOM	8131	C8	G	A	388	130.898	58.544	17.866	1.00	75.38	A16S
ATOM	8132	C2*	G	A	388	130.806	60.547	15.524	1.00	70.87	A16S
ATOM	8133	O2*	G	A	388	131.880	60.408	14.622	1.00	70.87	A16S
ATOM	8134	C3*	G	A	388	129.961	61.778	15.236	1.00	70.87	A16S
ATOM	8135	O3*	G	A	388	130.822	62.844	14.865	1.00	70.87	A16S
ATOM	8136	P	A	A	389	130.660	63.551	13.440	1.00	72.38	A16S
ATOM	8137	O1P	A	A	389	130.673	62.477	12.402	1.00	71.82	A16S
ATOM	8138	O2P	A	A	389	131.676	64.640	13.393	1.00	71.82	A16S
ATOM	8139	O5*	A	A	389	129.201	64.200	13.462	1.00	72.38	A16S
ATOM	8140	C5*	A	A	389	128.541	64.446	12.215	1.00	72.38	A16S
ATOM	8141	C4*	A	A	389	127.381	65.414	12.344	1.00	72.38	A16S
ATOM	8142	O4*	A	A	389	126.170	64.756	12.770	1.00	72.38	A16S
ATOM	8143	C1*	A	A	389	125.242	65.742	13.164	1.00	72.38	A16S
ATOM	8144	N9	A	A	389	124.693	65.397	14.471	1.00	71.82	A16S
ATOM	8145	C4	A	A	389	123.692	66.079	15.111	1.00	71.82	A16S
ATOM	8146	N3	A	A	389	123.061	67.178	14.681	1.00	71.82	A16S
ATOM	8147	C2	A	A	389	122.147	67.563	15.559	1.00	71.82	A16S
ATOM	8148	N1	A	A	389	121.814	67.015	16.726	1.00	71.82	A16S
ATOM	8149	C6	A	A	389	122.471	65.911	17.129	1.00	71.82	A16S
ATOM	8150	N6	A	A	389	122.136	65.363	18.298	1.00	71.82	A16S
ATOM	8151	C5	A	A	389	123.469	65.407	16.289	1.00	71.82	A16S
ATOM	8152	N7	A	A	389	124.323	64.326	16.402	1.00	71.82	A16S
ATOM	8153	C8	A	A	389	125.027	64.365	15.300	1.00	71.82	A16S
ATOM	8154	C2*	A	A	389	125.967	67.089	13.157	1.00	72.38	A16S
ATOM	8155	O2*	A	A	389	125.691	67.736	11.925	1.00	72.38	A16S



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ATOM	8156	C3*	A	A 389	127.431	66.676	13.185	1.00	72.38	A16S
ATOM	8157	O3*	A	A 389	128.142	67.722	12.552	1.00	72.38	A16S
ATOM	8158	P	C	A 390	128.621	69.005	13.406	1.00	69.99	A16S
ATOM	8159	O1P	C	A 390	128.584	70.162	12.468	1.00	77.16	A16S
ATOM	8160	O2P	C	A 390	129.892	68.651	14.098	1.00	77.16	A16S
ATOM	8161	O5*	C	A 390	127.519	69.232	14.537	1.00	69.99	A16S
ATOM	8162	C5*	C	A 390	126.427	70.165	14.362	1.00	69.99	A16S
ATOM	8163	C4*	C	A 390	125.485	70.088	15.548	1.00	69.99	A16S
ATOM	8164	O4*	C	A 390	125.216	68.681	15.802	1.00	69.99	A16S
ATOM	8165	C1*	C	A 390	125.136	68.453	17.192	1.00	69.99	A16S
ATOM	8166	N1	C	A 390	126.243	67.558	17.573	1.00	77.16	A16S
ATOM	8167	C6	C	A 390	127.489	67.722	17.037	1.00	77.16	A16S
ATOM	8168	C2	C	A 390	126.010	66.553	18.509	1.00	77.16	A16S
ATOM	8169	O2	C	A 390	124.863	66.395	18.947	1.00	77.16	A16S
ATOM	8170	N3	C	A 390	127.039	65.770	18.912	1.00	77.16	A16S
ATOM	8171	C4	C	A 390	128.255	65.953	18.397	1.00	77.16	A16S
ATOM	8172	N4	C	A 390	129.245	65.171	18.827	1.00	77.16	A16S
ATOM	8173	C5	C	A 390	128.513	66.951	17.417	1.00	77.16	A16S
ATOM	8174	C2*	C	A 390	125.210	69.815	17.888	1.00	69.99	A16S
ATOM	8175	O2*	C	A 390	123.897	70.321	18.015	1.00	69.99	A16S
ATOM	8176	C3*	C	A 390	125.999	70.636	16.881	1.00	69.99	A16S
ATOM	8177	O3*	C	A 390	125.687	72.025	17.017	1.00	69.99	A16S
ATOM	8178	P	G	A 391	126.650	73.004	17.865	1.00	74.22	A16S
ATOM	8179	O1P	G	A 391	126.195	74.376	17.539	1.00	85.29	A16S
ATOM	8180	O2P	G	A 391	128.075	72.635	17.691	1.00	85.29	A16S
ATOM	8181	O5*	G	A 391	126.273	72.738	19.384	1.00	74.22	A16S
ATOM	8182	C5*	G	A 391	124.975	73.101	19.885	1.00	74.22	A16S
ATOM	8183	C4*	G	A 391	124.792	72.570	21.279	1.00	74.22	A16S
ATOM	8184	O4*	G	A 391	124.732	71.121	21.260	1.00	74.22	A16S
ATOM	8185	C1*	G	A 391	125.409	70.604	22.391	1.00	74.22	A16S
ATOM	8186	N9	G	A 391	126.506	69.754	21.927	1.00	85.29	A16S
ATOM	8187	C4	G	A 391	127.179	68.812	22.671	1.00	85.29	A16S
ATOM	8188	N3	G	A 391	126.932	68.494	23.953	1.00	85.29	A16S
ATOM	8189	C2	G	A 391	127.738	67.552	24.397	1.00	85.29	A16S
ATOM	8190	N2	G	A 391	127.601	67.102	25.650	1.00	85.29	A16S
ATOM	8191	N1	G	A 391	128.728	66.981	23.647	1.00	85.29	A16S
ATOM	8192	C6	G	A 391	129.011	67.302	22.329	1.00	85.29	A16S
ATOM	8193	O6	G	A 391	129.943	66.745	21.754	1.00	85.29	A16S
ATOM	8194	C5	G	A 391	128.133	68.294	21.832	1.00	85.29	A16S
ATOM	8195	N7	G	A 391	128.056	68.881	20.578	1.00	85.29	A16S
ATOM	8196	C8	G	A 391	127.079	69.740	20.681	1.00	85.29	A16S
ATOM	8197	C2*	G	A 391	125.889	71.791	23.236	1.00	74.22	A16S
ATOM	8198	O2*	G	A 391	124.966	72.083	24.275	1.00	74.22	A16S
ATOM	8199	C3*	G	A 391	125.949	72.899	22.197	1.00	74.22	A16S
ATOM	8200	O3*	G	A 391	125.795	74.186	22.762	1.00	74.22	A16S
ATOM	8201	P	G	A 392	127.100	75.020	23.157	1.00	78.81	A16S
ATOM	8202	O1P	G	A 392	126.697	76.417	23.477	1.00	89.05	A16S
ATOM	8203	O2P	G	A 392	128.099	74.758	22.084	1.00	89.05	A16S
ATOM	8204	O5*	G	A 392	127.608	74.312	24.486	1.00	78.81	A16S
ATOM	8205	C5*	G	A 392	129.002	74.076	24.709	1.00	78.81	A16S
ATOM	8206	C4*	G	A 392	129.165	72.923	25.653	1.00	78.81	A16S
ATOM	8207	O4*	G	A 392	128.798	71.684	24.988	1.00	78.81	A16S
ATOM	8208	C1*	G	A 392	129.569	70.617	25.522	1.00	78.81	A16S
ATOM	8209	N9	G	A 392	130.348	69.988	24.456	1.00	89.05	A16S
ATOM	8210	C4	G	A 392	131.229	68.945	24.629	1.00	89.05	A16S
ATOM	8211	N3	G	A 392	131.476	68.309	25.791	1.00	89.05	A16S
ATOM	8212	C2	G	A 392	132.395	67.375	25.656	1.00	89.05	A16S
ATOM	8213	N2	G	A 392	132.753	66.636	26.720	1.00	89.05	A16S
ATOM	8214	N1	G	A 392	133.028	67.091	24.474	1.00	89.05	A16S
ATOM	8215	C6	G	A 392	132.785	67.724	23.266	1.00	89.05	A16S
ATOM	8216	O6	G	A 392	133.403	67.376	22.267	1.00	89.05	A16S
ATOM	8217	C5	G	A 392	131.795	68.731	23.394	1.00	89.05	A16S
ATOM	8218	N7	G	A 392	131.259	69.597	22.451	1.00	89.05	A16S
ATOM	8219	C8	G	A 392	130.399	70.317	23.123	1.00	89.05	A16S
ATOM	8220	C2*	G	A 392	130.506	71.211	26.576	1.00	78.81	A16S
ATOM	8221	O2*	G	A 392	129.961	71.030	27.870	1.00	78.81	A16S
ATOM	8222	C3*	G	A 392	130.573	72.666	26.139	1.00	78.81	A16S
ATOM	8223	O3*	G	A 392	130.928	73.544	27.186	1.00	78.81	A16S
ATOM	8224	P	A	A 393	132.314	74.345	27.090	1.00	75.20	A16S
ATOM	8225	O1P	A	A 393	132.177	75.661	27.783	1.00	96.37	A16S
ATOM	8226	O2P	A	A 393	132.738	74.304	25.671	1.00	96.37	A16S
ATOM	8227	O5*	A	A 393	133.345	73.434	27.888	1.00	75.20	A16S
ATOM	8228	C5*	A	A 393	133.095	73.043	29.243	1.00	75.20	A16S
ATOM	8229	C4*	A	A 393	133.840	71.775	29.550	1.00	75.20	A16S
ATOM	8230	O4*	A	A 393	133.282	70.704	28.753	1.00	75.20	A16S
ATOM	8231	C1*	A	A 393	134.318	69.842	28.315	1.00	75.20	A16S
ATOM	8232	N9	A	A 393	134.394	69.910	26.856	1.00	96.37	A16S



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ATOM	8233	C4	A	A 393	135.258	69.191	26.071	1.00	96.37	A16S
ATOM	8234	N3	A	A 393	136.161	68.286	26.479	1.00	96.37	A16S
ATOM	8235	C2	A	A 393	136.837	67.805	25.441	1.00	96.37	A16S
ATOM	8236	N1	A	A 393	136.727	68.114	24.142	1.00	96.37	A16S
ATOM	8237	C6	A	A 393	135.813	69.034	23.773	1.00	96.37	A16S
ATOM	8238	N6	A	A 393	135.721	69.359	22.487	1.00	96.37	A16S
ATOM	8239	C5	A	A 393	135.021	69.603	24.777	1.00	96.37	A16S
ATOM	8240	N7	A	A 393	134.008	70.546	24.741	1.00	96.37	A16S
ATOM	8241	C8	A	A 393	133.670	70.692	25.996	1.00	96.37	A16S
ATOM	8242	C2*	A	A 393	135.619	70.336	28.936	1.00	75.20	A16S
ATOM	8243	O2*	A	A 393	135.872	69.641	30.138	1.00	75.20	A16S
ATOM	8244	C3*	A	A 393	135.305	71.800	29.166	1.00	75.20	A16S
ATOM	8245	O3*	A	A 393	136.116	72.341	30.175	1.00	75.20	A16S
ATOM	8246	P	G	A 394	137.592	72.836	29.800	1.00	84.42	A16S
ATOM	8247	O1P	G	A 394	138.316	73.143	31.063	1.00	92.21	A16S
ATOM	8248	O2P	G	A 394	137.453	73.890	28.761	1.00	92.21	A16S
ATOM	8249	O5*	G	A 394	138.258	71.553	29.127	1.00	84.42	A16S
ATOM	8250	C5*	G	A 394	138.517	70.371	29.902	1.00	84.42	A16S
ATOM	8251	C4*	G	A 394	139.565	69.523	29.231	1.00	84.42	A16S
ATOM	8252	O4*	G	A 394	139.024	68.868	28.056	1.00	84.42	A16S
ATOM	8253	C1*	G	A 394	140.040	68.760	27.073	1.00	84.42	A16S
ATOM	8254	N9	G	A 394	139.600	69.449	25.866	1.00	92.21	A16S
ATOM	8255	C4	G	A 394	140.158	69.316	24.628	1.00	92.21	A16S
ATOM	8256	N3	G	A 394	141.213	68.544	24.326	1.00	92.21	A16S
ATOM	8257	C2	G	A 394	141.522	68.612	23.048	1.00	92.21	A16S
ATOM	8258	N2	G	A 394	142.557	67.904	22.573	1.00	92.21	A16S
ATOM	8259	N1	G	A 394	140.844	69.379	22.138	1.00	92.21	A16S
ATOM	8260	C6	G	A 394	139.756	70.184	22.424	1.00	92.21	A16S
ATOM	8261	O6	G	A 394	139.222	70.838	21.513	1.00	92.21	A16S
ATOM	8262	C5	G	A 394	139.415	70.121	23.800	1.00	92.21	A16S
ATOM	8263	N7	G	A 394	138.412	70.760	24.510	1.00	92.21	A16S
ATOM	8264	C8	G	A 394	138.564	70.336	25.733	1.00	92.21	A16S
ATOM	8265	C2*	G	A 394	141.323	69.370	27.640	1.00	84.42	A16S
ATOM	8266	O2*	G	A 394	142.166	68.352	28.136	1.00	84.42	A16S
ATOM	8267	C3*	G	A 394	140.768	70.287	28.720	1.00	84.42	A16S
ATOM	8268	O3*	G	A 394	141.692	70.576	29.744	1.00	84.42	A16S
ATOM	8269	P	C	A 395	142.542	71.925	29.656	1.00	73.57	A16S
ATOM	8270	O1P	C	A 395	143.302	72.121	30.925	1.00	73.41	A16S
ATOM	8271	O2P	C	A 395	141.606	72.980	29.179	1.00	73.41	A16S
ATOM	8272	O5*	C	A 395	143.597	71.600	28.506	1.00	73.57	A16S
ATOM	8273	C5*	C	A 395	144.611	70.583	28.705	1.00	73.57	A16S
ATOM	8274	C4*	C	A 395	145.438	70.401	27.452	1.00	73.57	A16S
ATOM	8275	O4*	C	A 395	144.621	69.851	26.393	1.00	73.57	A16S
ATOM	8276	C1*	C	A 395	145.044	70.374	25.147	1.00	73.57	A16S
ATOM	8277	N1	C	A 395	143.904	71.055	24.521	1.00	73.41	A16S
ATOM	8278	C6	C	A 395	142.851	71.499	25.274	1.00	73.41	A16S
ATOM	8279	C2	C	A 395	143.917	71.257	23.127	1.00	73.41	A16S
ATOM	8280	O2	C	A 395	144.873	70.816	22.454	1.00	73.41	A16S
ATOM	8281	N3	C	A 395	142.888	71.924	22.551	1.00	73.41	A16S
ATOM	8282	C4	C	A 395	141.876	72.371	23.302	1.00	73.41	A16S
ATOM	8283	N4	C	A 395	140.898	73.048	22.693	1.00	73.41	A16S
ATOM	8284	C5	C	A 395	141.827	72.151	24.712	1.00	73.41	A16S
ATOM	8285	C2*	C	A 395	146.219	71.317	25.398	1.00	73.57	A16S
ATOM	8286	O2*	C	A 395	147.438	70.648	25.171	1.00	73.57	A16S
ATOM	8287	C3*	C	A 395	146.019	71.670	26.861	1.00	73.57	A16S
ATOM	8288	O3*	C	A 395	147.240	72.000	27.479	1.00	73.57	A16S
ATOM	8289	P	G	A 396	147.684	73.533	27.546	1.00	76.98	A16S
ATOM	8290	O1P	G	A 396	148.994	73.590	28.253	1.00	82.02	A16S
ATOM	8291	O2P	G	A 396	146.536	74.340	28.040	1.00	82.02	A16S
ATOM	8292	O5*	G	A 396	147.927	73.900	26.023	1.00	76.98	A16S
ATOM	8293	C5*	G	A 396	149.079	73.401	25.349	1.00	76.98	A16S
ATOM	8294	C4*	G	A 396	149.237	74.089	24.031	1.00	76.98	A16S
ATOM	8295	O4*	G	A 396	148.253	73.589	23.103	1.00	76.98	A16S
ATOM	8296	C1*	G	A 396	147.888	74.618	22.214	1.00	76.98	A16S
ATOM	8297	N9	G	A 396	146.455	74.818	22.305	1.00	82.02	A16S
ATOM	8298	C4	G	A 396	145.654	75.248	21.294	1.00	82.02	A16S
ATOM	8299	N3	G	A 396	146.068	75.593	20.059	1.00	82.02	A16S
ATOM	8300	C2	G	A 396	145.060	75.956	19.285	1.00	82.02	A16S
ATOM	8301	N2	G	A 396	145.298	76.351	18.014	1.00	82.02	A16S
ATOM	8302	N1	G	A 396	143.747	75.964	19.693	1.00	82.02	A16S
ATOM	8303	C6	G	A 396	143.304	75.606	20.958	1.00	82.02	A16S
ATOM	8304	O6	G	A 396	142.099	75.635	21.214	1.00	82.02	A16S
ATOM	8305	C5	G	A 396	144.381	75.233	21.802	1.00	82.02	A16S
ATOM	8306	N7	G	A 396	144.389	74.828	23.126	1.00	82.02	A16S
ATOM	8307	C8	G	A 396	145.643	74.598	23.383	1.00	82.02	A16S
ATOM	8308	C2*	G	A 396	148.679	75.864	22.584	1.00	76.98	A16S
ATOM	8309	O2*	G	A 396	149.822	75.854	21.766	1.00	76.98	A16S



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ATOM	8310	C3*	G	A	396	149.022	75.590	24.038	1.00	76.98	A16S
ATOM	8311	O3*	G	A	396	150.195	76.267	24.454	1.00	76.98	A16S
ATOM	8312	P	A	A	397	150.123	77.278	25.702	1.00	88.51	A16S
ATOM	8313	O1P	A	A	397	151.530	77.594	26.105	1.00	80.96	A16S
ATOM	8314	O2P	A	A	397	149.166	76.713	26.706	1.00	80.96	A16S
ATOM	8315	O5*	A	A	397	149.460	78.594	25.100	1.00	88.51	A16S
ATOM	8316	C5*	A	A	397	150.165	79.370	24.148	1.00	88.51	A16S
ATOM	8317	C4*	A	A	397	149.302	80.481	23.640	1.00	88.51	A16S
ATOM	8318	O4*	A	A	397	149.135	81.483	24.670	1.00	88.51	A16S
ATOM	8319	C1*	A	A	397	149.184	82.777	24.088	1.00	88.51	A16S
ATOM	8320	N9	A	A	397	150.253	83.536	24.746	1.00	80.96	A16S
ATOM	8321	C4	A	A	397	151.591	83.235	24.829	1.00	80.96	A16S
ATOM	8322	N3	A	A	397	152.235	82.204	24.267	1.00	80.96	A16S
ATOM	8323	C2	A	A	397	153.523	82.215	24.602	1.00	80.96	A16S
ATOM	8324	N1	A	A	397	154.186	83.068	25.385	1.00	80.96	A16S
ATOM	8325	C6	A	A	397	153.506	84.092	25.937	1.00	80.96	A16S
ATOM	8326	N6	A	A	397	154.158	84.937	26.737	1.00	80.96	A16S
ATOM	8327	C5	A	A	397	152.144	84.204	25.641	1.00	80.96	A16S
ATOM	8328	N7	A	A	397	151.191	85.132	26.016	1.00	80.96	A16S
ATOM	8329	C8	A	A	397	150.093	84.696	25.456	1.00	80.96	A16S
ATOM	8330	C2*	A	A	397	149.333	82.604	22.576	1.00	88.51	A16S
ATOM	8331	O2*	A	A	397	148.052	82.632	21.974	1.00	88.51	A16S
ATOM	8332	C3*	A	A	397	149.963	81.223	22.501	1.00	88.51	A16S
ATOM	8333	O3*	A	A	397	149.734	80.527	21.298	1.00	88.51	A16S
ATOM	8334	P	C	A	398	150.700	79.301	20.911	1.00	74.04	A16S
ATOM	8335	O1P	C	A	398	150.022	78.078	21.344	1.00	79.91	A16S
ATOM	8336	O2P	C	A	398	152.091	79.579	21.372	1.00	79.91	A16S
ATOM	8337	O5*	C	A	398	150.681	79.324	19.333	1.00	74.04	A16S
ATOM	8338	C5*	C	A	398	150.922	80.550	18.658	1.00	74.04	A16S
ATOM	8339	C4*	C	A	398	149.801	80.847	17.716	1.00	74.04	A16S
ATOM	8340	O4*	C	A	398	148.894	79.716	17.646	1.00	74.04	A16S
ATOM	8341	C1*	C	A	398	147.582	80.181	17.398	1.00	74.04	A16S
ATOM	8342	N1	C	A	398	146.716	79.801	18.525	1.00	79.91	A16S
ATOM	8343	C6	C	A	398	147.219	79.648	19.790	1.00	79.91	A16S
ATOM	8344	C2	C	A	398	145.342	79.624	18.283	1.00	79.91	A16S
ATOM	8345	O2	C	A	398	144.909	79.731	17.109	1.00	79.91	A16S
ATOM	8346	N3	C	A	398	144.523	79.335	19.326	1.00	79.91	A16S
ATOM	8347	C4	C	A	398	145.025	79.202	20.553	1.00	79.91	A16S
ATOM	8348	N4	C	A	398	144.178	78.919	21.535	1.00	79.91	A16S
ATOM	8349	C5	C	A	398	146.418	79.354	20.821	1.00	79.91	A16S
ATOM	8350	C2*	C	A	398	147.657	81.699	17.275	1.00	74.04	A16S
ATOM	8351	O2*	C	A	398	147.796	82.016	15.900	1.00	74.04	A16S
ATOM	8352	C3*	C	A	398	148.906	82.002	18.096	1.00	74.04	A16S
ATOM	8353	O3*	C	A	398	149.503	83.248	17.790	1.00	74.04	A16S
ATOM	8354	P	G	A	399	149.041	84.566	18.592	1.00	70.38	A16S
ATOM	8355	O1P	G	A	399	149.923	85.671	18.098	1.00	71.12	A16S
ATOM	8356	O2P	G	A	399	149.006	84.263	20.054	1.00	71.12	A16S
ATOM	8357	O5*	G	A	399	147.556	84.810	18.051	1.00	70.38	A16S
ATOM	8358	C5*	G	A	399	147.329	85.030	16.641	1.00	70.38	A16S
ATOM	8359	C4*	G	A	399	145.928	85.530	16.389	1.00	70.38	A16S
ATOM	8360	O4*	G	A	399	144.981	84.444	16.489	1.00	70.38	A16S
ATOM	8361	C1*	G	A	399	143.790	84.908	17.087	1.00	70.38	A16S
ATOM	8362	N9	G	A	399	143.650	84.212	18.359	1.00	71.12	A16S
ATOM	8363	C4	G	A	399	142.489	84.010	19.043	1.00	71.12	A16S
ATOM	8364	N3	G	A	399	141.272	84.430	18.662	1.00	71.12	A16S
ATOM	8365	C2	G	A	399	140.337	84.072	19.519	1.00	71.12	A16S
ATOM	8366	N2	G	A	399	139.069	84.426	19.292	1.00	71.12	A16S
ATOM	8367	N1	G	A	399	140.575	83.344	20.658	1.00	71.12	A16S
ATOM	8368	C6	G	A	399	141.821	82.893	21.072	1.00	71.12	A16S
ATOM	8369	O6	G	A	399	141.921	82.226	22.107	1.00	71.12	A16S
ATOM	8370	C5	G	A	399	142.842	83.290	20.165	1.00	71.12	A16S
ATOM	8371	N7	G	A	399	144.212	83.064	20.194	1.00	71.12	A16S
ATOM	8372	C8	G	A	399	144.649	83.629	19.103	1.00	71.12	A16S
ATOM	8373	C2*	G	A	399	143.913	86.422	17.274	1.00	70.38	A16S
ATOM	8374	O2*	G	A	399	143.344	87.087	16.168	1.00	70.38	A16S
ATOM	8375	C3*	G	A	399	145.424	86.600	17.345	1.00	70.38	A16S
ATOM	8376	O3*	G	A	399	145.854	87.899	16.936	1.00	70.38	A16S
ATOM	8377	P	C	A	400	146.025	89.068	18.026	1.00	72.53	A16S
ATOM	8378	O1P	C	A	400	146.654	90.217	17.313	1.00	66.69	A16S
ATOM	8379	O2P	C	A	400	146.684	88.516	19.239	1.00	66.69	A16S
ATOM	8380	O5*	C	A	400	144.512	89.425	18.382	1.00	72.53	A16S
ATOM	8381	C5*	C	A	400	143.614	89.862	17.350	1.00	72.53	A16S
ATOM	8382	C4*	C	A	400	142.204	89.941	17.873	1.00	72.53	A16S
ATOM	8383	O4*	C	A	400	141.680	88.608	18.069	1.00	72.53	A16S
ATOM	8384	C1*	C	A	400	140.820	88.594	19.196	1.00	72.53	A16S
ATOM	8385	N1	C	A	400	141.387	87.676	20.197	1.00	66.69	A16S
ATOM	8386	C6	C	A	400	142.739	87.497	20.285	1.00	66.69	A16S



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ATOM	8387	C2	C	A	400	140.528	86.996	21.061	1.00	66.69	A16S
ATOM	8388	O2	C	A	400	139.310	87.178	20.966	1.00	66.69	A16S
ATOM	8389	N3	C	A	400	141.048	86.160	21.981	1.00	66.69	A16S
ATOM	8390	C4	C	A	400	142.369	85.993	22.057	1.00	66.69	A16S
ATOM	8391	N4	C	A	400	142.845	85.155	22.979	1.00	66.69	A16S
ATOM	8392	C5	C	A	400	143.266	86.676	21.191	1.00	66.69	A16S
ATOM	8393	C2*	C	A	400	140.729	90.024	19.728	1.00	72.53	A16S
ATOM	8394	O2*	C	A	400	139.578	90.640	19.191	1.00	72.53	A16S
ATOM	8395	C3*	C	A	400	142.029	90.632	19.213	1.00	72.53	A16S
ATOM	8396	O3*	C	A	400	141.952	92.047	19.073	1.00	72.53	A16S
ATOM	8397	P	C	A	401	142.384	92.995	20.303	1.00	69.88	A16S
ATOM	8398	O1P	C	A	401	142.299	94.399	19.825	1.00	82.04	A16S
ATOM	8399	O2P	C	A	401	143.658	92.492	20.874	1.00	82.04	A16S
ATOM	8400	O5*	C	A	401	141.221	92.778	21.367	1.00	69.88	A16S
ATOM	8401	C5*	C	A	401	139.892	93.255	21.106	1.00	69.88	A16S
ATOM	8402	C4*	C	A	401	138.998	92.950	22.279	1.00	69.88	A16S
ATOM	8403	O4*	C	A	401	138.730	91.526	22.315	1.00	69.88	A16S
ATOM	8404	C1*	C	A	401	138.678	91.084	23.666	1.00	69.88	A16S
ATOM	8405	N1	C	A	401	139.799	90.147	23.917	1.00	82.04	A16S
ATOM	8406	C6	C	A	401	141.010	90.314	23.299	1.00	82.04	A16S
ATOM	8407	C2	C	A	401	139.616	89.101	24.830	1.00	82.04	A16S
ATOM	8408	O2	C	A	401	138.503	88.948	25.356	1.00	82.04	A16S
ATOM	8409	N3	C	A	401	140.657	88.286	25.117	1.00	82.04	A16S
ATOM	8410	C4	C	A	401	141.838	88.481	24.530	1.00	82.04	A16S
ATOM	8411	N4	C	A	401	142.843	87.678	24.868	1.00	82.04	A16S
ATOM	8412	C5	C	A	401	142.045	89.513	23.577	1.00	82.04	A16S
ATOM	8413	C2*	C	A	401	138.826	92.319	24.557	1.00	69.88	A16S
ATOM	8414	O2*	C	A	401	137.565	92.851	24.910	1.00	69.88	A16S
ATOM	8415	C3*	C	A	401	139.596	93.253	23.646	1.00	69.88	A16S
ATOM	8416	O3*	C	A	401	139.475	94.599	24.067	1.00	69.88	A16S
ATOM	8417	P	G	A	402	140.484	95.161	25.188	1.00	71.50	A16S
ATOM	8418	O1P	G	A	402	140.281	96.638	25.235	1.00	83.41	A16S
ATOM	8419	O2P	G	A	402	141.847	94.614	24.926	1.00	83.41	A16S
ATOM	8420	O5*	G	A	402	139.945	94.505	26.539	1.00	71.50	A16S
ATOM	8421	C5*	G	A	402	138.592	94.734	26.970	1.00	71.50	A16S
ATOM	8422	C4*	G	A	402	138.257	93.873	28.160	1.00	71.50	A16S
ATOM	8423	O4*	G	A	402	138.217	92.473	27.779	1.00	71.50	A16S
ATOM	8424	C1*	G	A	402	138.679	91.667	28.855	1.00	71.50	A16S
ATOM	8425	N9	G	A	402	139.885	90.963	28.426	1.00	83.41	A16S
ATOM	8426	C4	G	A	402	140.614	90.055	29.156	1.00	83.41	A16S
ATOM	8427	N3	G	A	402	140.321	89.615	30.395	1.00	83.41	A16S
ATOM	8428	C2	G	A	402	141.228	88.761	30.844	1.00	83.41	A16S
ATOM	8429	N2	G	A	402	141.095	88.228	32.064	1.00	83.41	A16S
ATOM	8430	N1	G	A	402	142.332	88.371	30.132	1.00	83.41	A16S
ATOM	8431	C6	G	A	402	142.656	88.821	28.855	1.00	83.41	A16S
ATOM	8432	O6	G	A	402	143.696	88.428	28.302	1.00	83.41	A16S
ATOM	8433	C5	G	A	402	141.688	89.727	28.362	1.00	83.41	A16S
ATOM	8434	N7	G	A	402	141.623	90.388	27.147	1.00	83.41	A16S
ATOM	8435	C8	G	A	402	140.536	91.102	27.227	1.00	83.41	A16S
ATOM	8436	C2*	G	A	402	138.970	92.608	30.022	1.00	71.50	A16S
ATOM	8437	O2*	G	A	402	137.807	92.662	30.817	1.00	71.50	A16S
ATOM	8438	C3*	G	A	402	139.246	93.920	29.301	1.00	71.50	A16S
ATOM	8439	O3*	G	A	402	139.031	95.051	30.114	1.00	71.50	A16S
ATOM	8440	P	C	A	403	140.294	95.808	30.755	1.00	73.17	A16S
ATOM	8441	O1P	C	A	403	139.760	97.005	31.463	1.00	97.46	A16S
ATOM	8442	O2P	C	A	403	141.346	95.976	29.719	1.00	97.46	A16S
ATOM	8443	O5*	C	A	403	140.838	94.767	31.831	1.00	73.17	A16S
ATOM	8444	C5*	C	A	403	139.989	94.331	32.902	1.00	73.17	A16S
ATOM	8445	C4*	C	A	403	140.701	93.335	33.776	1.00	73.17	A16S
ATOM	8446	O4*	C	A	403	140.837	92.060	33.098	1.00	73.17	A16S
ATOM	8447	C1*	C	A	403	141.976	91.376	33.607	1.00	73.17	A16S
ATOM	8448	N1	C	A	403	142.908	91.031	32.510	1.00	97.46	A16S
ATOM	8449	C6	C	A	403	142.900	91.707	31.320	1.00	97.46	A16S
ATOM	8450	C2	C	A	403	143.841	90.005	32.730	1.00	97.46	A16S
ATOM	8451	O2	C	A	403	143.791	89.366	33.792	1.00	97.46	A16S
ATOM	8452	N3	C	A	403	144.767	89.733	31.780	1.00	97.46	A16S
ATOM	8453	C4	C	A	403	144.773	90.421	30.639	1.00	97.46	A16S
ATOM	8454	N4	C	A	403	145.721	90.135	29.742	1.00	97.46	A16S
ATOM	8455	C5	C	A	403	143.808	91.437	30.366	1.00	97.46	A16S
ATOM	8456	C2*	C	A	403	142.655	92.308	34.610	1.00	73.17	A16S
ATOM	8457	O2*	C	A	403	142.276	91.949	35.924	1.00	73.17	A16S
ATOM	8458	C3*	C	A	403	142.119	93.667	34.183	1.00	73.17	A16S
ATOM	8459	O3*	C	A	403	142.211	94.614	35.224	1.00	73.17	A16S
ATOM	8460	P	U	A	404	143.649	95.243	35.578	1.00	77.18	A16S
ATOM	8461	O1P	U	A	404	143.450	96.368	36.528	1.00	78.34	A16S
ATOM	8462	O2P	U	A	404	144.375	95.475	34.299	1.00	78.34	A16S
ATOM	8463	O5*	U	A	404	144.390	94.075	36.369	1.00	77.18	A16S



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ATOM	8464	C5*	U	A	404	143.836	93.560	37.592	1.00	77.18	A16S
ATOM	8465	C4*	U	A	404	144.771	92.559	38.214	1.00	77.18	A16S
ATOM	8466	O4*	U	A	404	144.859	91.380	37.381	1.00	77.18	A16S
ATOM	8467	C1*	U	A	404	146.180	90.866	37.426	1.00	77.18	A16S
ATOM	8468	N1	U	A	404	146.745	90.891	36.067	1.00	78.34	A16S
ATOM	8469	C6	U	A	404	146.040	91.399	34.995	1.00	78.34	A16S
ATOM	8470	C2	U	A	404	148.030	90.401	35.899	1.00	78.34	A16S
ATOM	8471	O2	U	A	404	148.680	89.911	36.810	1.00	78.34	A16S
ATOM	8472	N3	U	A	404	148.526	90.507	34.625	1.00	78.34	A16S
ATOM	8473	C4	U	A	404	147.888	91.027	33.517	1.00	78.34	A16S
ATOM	8474	O4	U	A	404	148.507	91.131	32.455	1.00	78.34	A16S
ATOM	8475	C5	U	A	404	146.553	91.480	33.761	1.00	78.34	A16S
ATOM	8476	C2*	U	A	404	146.987	91.735	38.394	1.00	77.18	A16S
ATOM	8477	O2*	U	A	404	147.022	91.108	39.656	1.00	77.18	A16S
ATOM	8478	C3*	U	A	404	146.200	93.038	38.373	1.00	77.18	A16S
ATOM	8479	O3*	U	A	404	146.347	93.800	39.562	1.00	77.18	A16S
ATOM	8480	P	U	A	405	147.438	94.976	39.624	1.00	77.49	A16S
ATOM	8481	O1P	U	A	405	147.175	95.754	40.873	1.00	88.97	A16S
ATOM	8482	O2P	U	A	405	147.439	95.679	38.312	1.00	88.97	A16S
ATOM	8483	O5*	U	A	405	148.812	94.185	39.808	1.00	77.49	A16S
ATOM	8484	C5*	U	A	405	148.997	93.315	40.938	1.00	77.49	A16S
ATOM	8485	C4*	U	A	405	150.256	92.494	40.791	1.00	77.49	A16S
ATOM	8486	O4*	U	A	405	150.135	91.592	39.667	1.00	77.49	A16S
ATOM	8487	C1*	U	A	405	151.404	91.422	39.057	1.00	77.49	A16S
ATOM	8488	N1	U	A	405	151.297	91.813	37.638	1.00	88.97	A16S
ATOM	8489	C6	U	A	405	150.229	92.551	37.182	1.00	88.97	A16S
ATOM	8490	C2	U	A	405	152.297	91.407	36.765	1.00	88.97	A16S
ATOM	8491	O2	U	A	405	153.281	90.773	37.121	1.00	88.97	A16S
ATOM	8492	N3	U	A	405	152.105	91.776	35.457	1.00	88.97	A16S
ATOM	8493	C4	U	A	405	151.049	92.495	34.940	1.00	88.97	A16S
ATOM	8494	O4	U	A	405	150.973	92.675	33.723	1.00	88.97	A16S
ATOM	8495	C5	U	A	405	150.078	92.896	35.902	1.00	88.97	A16S
ATOM	8496	C2*	U	A	405	152.431	92.222	39.870	1.00	77.49	A16S
ATOM	8497	O2*	U	A	405	153.082	91.359	40.787	1.00	77.49	A16S
ATOM	8498	C3*	U	A	405	151.551	93.256	40.566	1.00	77.49	A16S
ATOM	8499	O3*	U	A	405	152.106	93.621	41.820	1.00	77.49	A16S
ATOM	8500	P	G	A	406	153.187	94.803	41.913	1.00	87.51	A16S
ATOM	8501	O1P	G	A	406	153.972	94.799	40.655	1.00	87.92	A16S
ATOM	8502	O2P	G	A	406	153.881	94.617	43.202	1.00	87.92	A16S
ATOM	8503	O5*	G	A	406	152.311	96.138	42.021	1.00	87.51	A16S
ATOM	8504	C5*	G	A	406	151.415	96.503	40.962	1.00	87.51	A16S
ATOM	8505	C4*	G	A	406	150.098	97.025	41.500	1.00	87.51	A16S
ATOM	8506	O4*	G	A	406	149.575	96.145	42.525	1.00	87.51	A16S
ATOM	8507	C1*	G	A	406	148.791	96.894	43.440	1.00	87.51	A16S
ATOM	8508	N9	G	A	406	149.374	96.774	44.773	1.00	87.92	A16S
ATOM	8509	C4	G	A	406	148.828	97.243	45.950	1.00	87.92	A16S
ATOM	8510	N3	G	A	406	147.640	97.875	46.079	1.00	87.92	A16S
ATOM	8511	C2	G	A	406	147.389	98.205	47.333	1.00	87.92	A16S
ATOM	8512	N2	G	A	406	146.242	98.829	47.639	1.00	87.92	A16S
ATOM	8513	N1	G	A	406	148.243	97.947	48.377	1.00	87.92	A16S
ATOM	8514	C6	G	A	406	149.475	97.308	48.265	1.00	87.92	A16S
ATOM	8515	O6	G	A	406	150.179	97.137	49.270	1.00	87.92	A16S
ATOM	8516	C5	G	A	406	149.748	96.935	46.927	1.00	87.92	A16S
ATOM	8517	N7	G	A	406	150.840	96.271	46.384	1.00	87.92	A16S
ATOM	8518	C8	G	A	406	150.575	96.197	45.108	1.00	87.92	A16S
ATOM	8519	C2*	G	A	406	148.787	98.345	42.962	1.00	87.51	A16S
ATOM	8520	O2*	G	A	406	147.618	98.562	42.187	1.00	87.51	A16S
ATOM	8521	C3*	G	A	406	150.071	98.402	42.139	1.00	87.51	A16S
ATOM	8522	O3*	G	A	406	149.981	99.412	41.142	1.00	87.51	A16S
ATOM	8523	P	G	A	407	150.427	100.915	41.483	1.00	93.48	A16S
ATOM	8524	O1P	G	A	407	150.316	101.667	40.211	1.00	88.68	A16S
ATOM	8525	O2P	G	A	407	151.735	100.863	42.194	1.00	88.68	A16S
ATOM	8526	O5*	G	A	407	149.293	101.435	42.479	1.00	93.48	A16S
ATOM	8527	C5*	G	A	407	147.945	101.682	42.013	1.00	93.48	A16S
ATOM	8528	C4*	G	A	407	147.126	102.355	43.096	1.00	93.48	A16S
ATOM	8529	O4*	G	A	407	146.872	101.420	44.180	1.00	93.48	A16S
ATOM	8530	C1*	G	A	407	146.956	102.092	45.427	1.00	93.48	A16S
ATOM	8531	N9	G	A	407	148.066	101.499	46.164	1.00	88.68	A16S
ATOM	8532	C4	G	A	407	148.341	101.631	47.504	1.00	88.68	A16S
ATOM	8533	N3	G	A	407	147.642	102.371	48.394	1.00	88.68	A16S
ATOM	8534	C2	G	A	407	148.146	102.276	49.617	1.00	88.68	A16S
ATOM	8535	N2	G	A	407	147.578	102.939	50.632	1.00	88.68	A16S
ATOM	8536	N1	G	A	407	149.243	101.518	49.939	1.00	88.68	A16S
ATOM	8537	C6	G	A	407	149.972	100.744	49.041	1.00	88.68	A16S
ATOM	8538	O6	G	A	407	150.935	100.072	49.440	1.00	88.68	A16S
ATOM	8539	C5	G	A	407	149.452	100.844	47.726	1.00	88.68	A16S
ATOM	8540	N7	G	A	407	149.882	100.251	46.548	1.00	88.68	A16S



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ATOM	8541	C8	G	A	407	149.036	100.672	45.650	1.00	88.68	A16S
ATOM	8542	C2*	G	A	407	147.154	103.582	45.146	1.00	93.48	A16S
ATOM	8543	O2*	G	A	407	145.906	104.253	45.180	1.00	93.48	A16S
ATOM	8544	C3*	G	A	407	147.794	103.550	43.760	1.00	93.48	A16S
ATOM	8545	O3*	G	A	407	147.597	104.752	43.028	1.00	93.48	A16S
ATOM	8546	P	A	A	408	148.738	105.876	43.053	1.00	91.34	A16S
ATOM	8547	O1P	A	A	408	148.316	106.931	42.115	1.00109.55		A16S
ATOM	8548	O2P	A	A	408	150.064	105.229	42.878	1.00109.55		A16S
ATOM	8549	O5*	A	A	408	148.658	106.459	44.531	1.00	91.34	A16S
ATOM	8550	C5*	A	A	408	147.579	107.330	44.926	1.00	91.34	A16S
ATOM	8551	C4*	A	A	408	147.693	107.685	46.393	1.00	91.34	A16S
ATOM	8552	O4*	A	A	408	147.488	106.490	47.196	1.00	91.34	A16S
ATOM	8553	C1*	A	A	408	148.303	106.543	48.356	1.00	91.34	A16S
ATOM	8554	N9	A	A	408	149.269	105.445	48.297	1.00109.55		A16S
ATOM	8555	C4	A	A	408	150.083	105.043	49.327	1.00109.55		A16S
ATOM	8556	N3	A	A	408	150.122	105.540	50.575	1.00109.55		A16S
ATOM	8557	C2	A	A	408	151.048	104.919	51.296	1.00109.55		A16S
ATOM	8558	N1	A	A	408	151.884	103.939	50.937	1.00109.55		A16S
ATOM	8559	C6	A	A	408	151.827	103.470	49.673	1.00109.55		A16S
ATOM	8560	N6	A	A	408	152.679	102.513	49.310	1.00109.55		A16S
ATOM	8561	C5	A	A	408	150.873	104.033	48.812	1.00109.55		A16S
ATOM	8562	N7	A	A	408	150.545	103.781	47.487	1.00109.55		A16S
ATOM	8563	C8	A	A	408	149.587	104.638	47.232	1.00109.55		A16S
ATOM	8564	C2*	A	A	408	149.022	107.892	48.353	1.00	91.34	A16S
ATOM	8565	O2*	A	A	408	148.282	108.817	49.130	1.00	91.34	A16S
ATOM	8566	C3*	A	A	408	149.039	108.221	46.863	1.00	91.34	A16S
ATOM	8567	O3*	A	A	408	149.212	109.607	46.608	1.00	91.34	A16S
ATOM	8568	P	G	A	409	150.686	110.242	46.679	1.00	87.83	A16S
ATOM	8569	O1P	G	A	409	150.491	111.688	46.435	1.00	96.87	A16S
ATOM	8570	O2P	G	A	409	151.627	109.469	45.829	1.00	96.87	A16S
ATOM	8571	O5*	G	A	409	151.138	110.025	48.195	1.00	87.83	A16S
ATOM	8572	C5*	G	A	409	150.607	110.845	49.266	1.00	87.83	A16S
ATOM	8573	C4*	G	A	409	151.348	110.576	50.560	1.00	87.83	A16S
ATOM	8574	O4*	G	A	409	151.236	109.163	50.864	1.00	87.83	A16S
ATOM	8575	C1*	G	A	409	152.430	108.711	51.480	1.00	87.83	A16S
ATOM	8576	N9	G	A	409	152.985	107.627	50.675	1.00	96.87	A16S
ATOM	8577	C4	G	A	409	153.941	106.712	51.059	1.00	96.87	A16S
ATOM	8578	N3	G	A	409	154.534	106.641	52.266	1.00	96.87	A16S
ATOM	8579	C2	G	A	409	155.402	105.645	52.330	1.00	96.87	A16S
ATOM	8580	N2	G	A	409	156.073	105.414	53.466	1.00	96.87	A16S
ATOM	8581	N1	G	A	409	155.673	104.796	51.289	1.00	96.87	A16S
ATOM	8582	C6	G	A	409	155.074	104.854	50.038	1.00	96.87	A16S
ATOM	8583	O6	G	A	409	155.386	104.038	49.164	1.00	96.87	A16S
ATOM	8584	C5	G	A	409	154.139	105.908	49.959	1.00	96.87	A16S
ATOM	8585	N7	G	A	409	153.325	106.300	48.910	1.00	96.87	A16S
ATOM	8586	C8	G	A	409	152.659	107.319	49.379	1.00	96.87	A16S
ATOM	8587	C2*	G	A	409	153.374	109.908	51.630	1.00	87.83	A16S
ATOM	8588	O2*	G	A	409	153.258	110.430	52.937	1.00	87.83	A16S
ATOM	8589	C3*	G	A	409	152.849	110.872	50.569	1.00	87.83	A16S
ATOM	8590	O3*	G	A	409	153.125	112.240	50.933	1.00	87.83	A16S
ATOM	8591	P	G	A	410	154.490	112.965	50.434	1.00	88.82	A16S
ATOM	8592	O1P	G	A	410	154.650	114.215	51.236	1.00123.70		A16S
ATOM	8593	O2P	G	A	410	154.464	113.056	48.956	1.00123.70		A16S
ATOM	8594	O5*	G	A	410	155.659	111.957	50.841	1.00	88.82	A16S
ATOM	8595	C5*	G	A	410	155.963	111.709	52.222	1.00	88.82	A16S
ATOM	8596	C4*	G	A	410	156.958	110.582	52.353	1.00	88.82	A16S
ATOM	8597	O4*	G	A	410	156.366	109.324	51.936	1.00	88.82	A16S
ATOM	8598	C1*	G	A	410	157.354	108.510	51.314	1.00	88.82	A16S
ATOM	8599	N9	G	A	410	156.915	108.203	49.952	1.00123.70		A16S
ATOM	8600	C4	G	A	410	157.310	107.131	49.184	1.00123.70		A16S
ATOM	8601	N3	G	A	410	158.147	106.149	49.567	1.00123.70		A16S
ATOM	8602	C2	G	A	410	158.343	105.266	48.605	1.00123.70		A16S
ATOM	8603	N2	G	A	410	159.135	104.212	48.823	1.00123.70		A16S
ATOM	8604	N1	G	A	410	157.775	105.347	47.359	1.00123.70		A16S
ATOM	8605	C6	G	A	410	156.912	106.349	46.938	1.00123.70		A16S
ATOM	8606	O6	G	A	410	156.458	106.329	45.786	1.00123.70		A16S
ATOM	8607	C5	G	A	410	156.678	107.298	47.968	1.00123.70		A16S
ATOM	8608	N7	G	A	410	155.884	108.435	47.977	1.00123.70		A16S
ATOM	8609	C8	G	A	410	156.050	108.936	49.172	1.00123.70		A16S
ATOM	8610	C2*	G	A	410	158.680	109.282	51.344	1.00	88.82	A16S
ATOM	8611	O2*	G	A	410	159.498	108.808	52.393	1.00	88.82	A16S
ATOM	8612	C3*	G	A	410	158.202	110.727	51.503	1.00	88.82	A16S
ATOM	8613	O3*	G	A	410	159.139	111.582	52.133	1.00	88.82	A16S
ATOM	8614	P	A	A	411	159.634	112.911	51.379	1.00	95.43	A16S
ATOM	8615	O1P	A	A	411	159.286	114.086	52.213	1.00100.96		A16S
ATOM	8616	O2P	A	A	411	159.161	112.867	49.966	1.00100.96		A16S
ATOM	8617	O5*	A	A	411	161.217	112.738	51.404	1.00	95.43	A16S



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ATOM	8618	C5*	A	A	411	161.928	112.630	52.654	1.00	95.43	A16S
ATOM	8619	C4*	A	A	411	163.389	112.958	52.453	1.00	95.43	A16S
ATOM	8620	O4*	A	A	411	164.063	111.831	51.852	1.00	95.43	A16S
ATOM	8621	C1*	A	A	411	165.001	112.293	50.895	1.00	95.43	A16S
ATOM	8622	N9	A	A	411	164.624	111.712	49.606	1.00100.96		A16S
ATOM	8623	C4	A	A	411	164.841	110.404	49.255	1.00100.96		A16S
ATOM	8624	N3	A	A	411	165.424	109.452	50.001	1.00100.96		A16S
ATOM	8625	C2	A	A	411	165.460	108.302	49.343	1.00100.96		A16S
ATOM	8626	N1	A	A	411	165.009	108.012	48.117	1.00100.96		A16S
ATOM	8627	C6	A	A	411	164.421	108.990	47.396	1.00100.96		A16S
ATOM	8628	N6	A	A	411	163.955	108.694	46.182	1.00100.96		A16S
ATOM	8629	C5	A	A	411	164.327	110.264	47.980	1.00100.96		A16S
ATOM	8630	N7	A	A	411	163.790	111.465	47.529	1.00100.96		A16S
ATOM	8631	C8	A	A	411	163.993	112.292	48.526	1.00100.96		A16S
ATOM	8632	C2*	A	A	411	165.013	113.826	50.930	1.00	95.43	A16S
ATOM	8633	O2*	A	A	411	166.085	114.293	51.721	1.00	95.43	A16S
ATOM	8634	C3*	A	A	411	163.646	114.134	51.523	1.00	95.43	A16S
ATOM	8635	O3*	A	A	411	163.647	115.352	52.247	1.00	95.43	A16S
ATOM	8636	P	A	A	412	163.014	116.668	51.587	1.00142.05		A16S
ATOM	8637	O1P	A	A	412	162.923	117.694	52.659	1.00165.12		A16S
ATOM	8638	O2P	A	A	412	161.786	116.270	50.842	1.00165.12		A16S
ATOM	8639	O5*	A	A	412	164.124	117.130	50.540	1.00142.05		A16S
ATOM	8640	C5*	A	A	412	165.501	117.299	50.941	1.00142.05		A16S
ATOM	8641	C4*	A	A	412	166.421	116.918	49.804	1.00142.05		A16S
ATOM	8642	O4*	A	A	412	166.132	117.734	48.647	1.00142.05		A16S
ATOM	8643	C1*	A	A	412	167.284	117.801	47.838	1.00142.05		A16S
ATOM	8644	N9	A	A	412	167.431	119.157	47.328	1.00165.12		A16S
ATOM	8645	C4	A	A	412	166.920	119.586	46.132	1.00165.12		A16S
ATOM	8646	N3	A	A	412	166.210	118.864	45.249	1.00165.12		A16S
ATOM	8647	C2	A	A	412	165.884	119.604	44.200	1.00165.12		A16S
ATOM	8648	N1	A	A	412	166.165	120.886	43.951	1.00165.12		A16S
ATOM	8649	C6	A	A	412	166.880	121.584	44.862	1.00165.12		A16S
ATOM	8650	N6	A	A	412	167.157	122.866	44.616	1.00165.12		A16S
ATOM	8651	C5	A	A	412	167.288	120.911	46.020	1.00165.12		A16S
ATOM	8652	N7	A	A	412	168.018	121.316	47.130	1.00165.12		A16S
ATOM	8653	C8	A	A	412	168.074	120.242	47.876	1.00165.12		A16S
ATOM	8654	C2*	A	A	412	168.475	117.245	48.620	1.00142.05		A16S
ATOM	8655	O2*	A	A	412	168.857	116.009	48.055	1.00142.05		A16S
ATOM	8656	C3*	A	A	412	167.913	117.112	50.036	1.00142.05		A16S
ATOM	8657	O3*	A	A	412	168.425	115.948	50.675	1.00142.05		A16S
ATOM	8658	P	G	A	413	170.003	115.798	50.959	1.00129.52		A16S
ATOM	8659	O1P	G	A	413	170.238	116.254	52.353	1.00107.17		A16S
ATOM	8660	O2P	G	A	413	170.813	116.386	49.848	1.00107.17		A16S
ATOM	8661	O5*	G	A	413	170.209	114.221	50.939	1.00111.90		A16S
ATOM	8662	C5*	G	A	413	170.389	113.525	49.701	1.00111.90		A16S
ATOM	8663	C4*	G	A	413	169.215	112.616	49.432	1.00111.90		A16S
ATOM	8664	O4*	G	A	413	168.064	113.355	48.969	1.00111.90		A16S
ATOM	8665	C1*	G	A	413	167.258	112.489	48.197	1.00111.90		A16S
ATOM	8666	N9	G	A	413	166.564	113.231	47.140	1.00107.17		A16S
ATOM	8667	C4	G	A	413	165.966	112.708	46.013	1.00107.17		A16S
ATOM	8668	N3	G	A	413	165.987	111.421	45.631	1.00107.17		A16S
ATOM	8669	C2	G	A	413	165.264	111.220	44.549	1.00107.17		A16S
ATOM	8670	N2	G	A	413	165.175	109.999	44.028	1.00107.17		A16S
ATOM	8671	N1	G	A	413	164.572	112.200	43.891	1.00107.17		A16S
ATOM	8672	C6	G	A	413	164.536	113.532	44.259	1.00107.17		A16S
ATOM	8673	O6	G	A	413	163.868	114.333	43.596	1.00107.17		A16S
ATOM	8674	C5	G	A	413	165.316	113.769	45.417	1.00107.17		A16S
ATOM	8675	N7	G	A	413	165.551	114.943	46.114	1.00107.17		A16S
ATOM	8676	C8	G	A	413	166.306	114.580	47.116	1.00107.17		A16S
ATOM	8677	C2*	G	A	413	168.078	111.253	47.820	1.00111.90		A16S
ATOM	8678	O2*	G	A	413	167.539	110.145	48.501	1.00111.90		A16S
ATOM	8679	C3*	G	A	413	169.474	111.606	48.332	1.00111.90		A16S
ATOM	8680	O3*	G	A	413	170.043	110.514	49.026	1.00111.90		A16S
ATOM	8681	P	A	A	414	170.810	109.353	48.241	1.00100.99		A16S
ATOM	8682	O1P	A	A	414	172.229	109.788	48.105	1.00116.26		A16S
ATOM	8683	O2P	A	A	414	170.027	109.023	47.031	1.00116.26		A16S
ATOM	8684	O5*	A	A	414	170.728	108.134	49.276	1.00100.99		A16S
ATOM	8685	C5*	A	A	414	170.789	108.377	50.710	1.00100.99		A16S
ATOM	8686	C4*	A	A	414	170.993	107.085	51.473	1.00100.99		A16S
ATOM	8687	O4*	A	A	414	169.760	106.330	51.531	1.00100.99		A16S
ATOM	8688	C1*	A	A	414	170.058	104.942	51.536	1.00100.99		A16S
ATOM	8689	N9	A	A	414	169.356	104.303	50.422	1.00116.26		A16S
ATOM	8690	C4	A	A	414	169.296	102.952	50.176	1.00116.26		A16S
ATOM	8691	N3	A	A	414	169.866	101.968	50.891	1.00116.26		A16S
ATOM	8692	C2	A	A	414	169.582	100.778	50.364	1.00116.26		A16S
ATOM	8693	N1	A	A	414	168.848	100.481	49.284	1.00116.26		A16S
ATOM	8694	C6	A	A	414	168.289	101.494	48.585	1.00116.26		A16S



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ATOM	8695	N6	A	A 414	167.550	101.198	47.509	1.00116.26	A16S
ATOM	8696	C5	A	A 414	168.520	102.809	49.042	1.00116.26	A16S
ATOM	8697	N7	A	A 414	168.107	104.047	48.572	1.00116.26	A16S
ATOM	8698	C8	A	A 414	168.628	104.897	49.422	1.00116.26	A16S
ATOM	8699	C2*	A	A 414	171.580	104.774	51.461	1.00100.99	A16S
ATOM	8700	O2*	A	A 414	172.095	104.494	52.745	1.00100.99	A16S
ATOM	8701	C3*	A	A 414	172.024	106.122	50.903	1.00100.99	A16S
ATOM	8702	O3*	A	A 414	173.343	106.459	51.316	1.00100.99	A16S
ATOM	8703	P	A	A 415	174.572	106.258	50.297	1.00 99.75	A16S
ATOM	8704	O1P	A	A 415	175.807	106.726	50.977	1.00119.31	A16S
ATOM	8705	O2P	A	A 415	174.197	106.844	48.988	1.00119.31	A16S
ATOM	8706	O5*	A	A 415	174.672	104.677	50.143	1.00 99.75	A16S
ATOM	8707	C5*	A	A 415	174.939	103.858	51.290	1.00 99.75	A16S
ATOM	8708	C4*	A	A 415	174.643	102.410	50.995	1.00 99.75	A16S
ATOM	8709	O4*	A	A 415	173.230	102.242	50.704	1.00 99.75	A16S
ATOM	8710	C1*	A	A 415	173.063	101.180	49.777	1.00 99.75	A16S
ATOM	8711	N9	A	A 415	172.352	101.680	48.591	1.00119.31	A16S
ATOM	8712	C4	A	A 415	171.705	100.892	47.662	1.00119.31	A16S
ATOM	8713	N3	A	A 415	171.587	99.550	47.667	1.00119.31	A16S
ATOM	8714	C2	A	A 415	170.895	99.130	46.606	1.00119.31	A16S
ATOM	8715	N1	A	A 415	170.351	99.840	45.612	1.00119.31	A16S
ATOM	8716	C6	A	A 415	170.489	101.184	45.629	1.00119.31	A16S
ATOM	8717	N6	A	A 415	169.952	101.886	44.632	1.00119.31	A16S
ATOM	8718	C5	A	A 415	171.202	101.762	46.711	1.00119.31	A16S
ATOM	8719	N7	A	A 415	171.518	103.079	47.033	1.00119.31	A16S
ATOM	8720	C8	A	A 415	172.194	102.977	48.154	1.00119.31	A16S
ATOM	8721	C2*	A	A 415	174.454	100.621	49.454	1.00 99.75	A16S
ATOM	8722	O2*	A	A 415	174.714	99.488	50.263	1.00 99.75	A16S
ATOM	8723	C3*	A	A 415	175.352	101.804	49.796	1.00 99.75	A16S
ATOM	8724	O3*	A	A 415	176.688	101.416	50.093	1.00 99.75	A16S
ATOM	8725	P	G	A 416	177.836	101.621	48.985	1.00104.44	A16S
ATOM	8726	O1P	G	A 416	179.135	101.238	49.592	1.00119.96	A16S
ATOM	8727	O2P	G	A 416	177.675	102.970	48.396	1.00119.96	A16S
ATOM	8728	O5*	G	A 416	177.472	100.545	47.868	1.00104.44	A16S
ATOM	8729	C5*	G	A 416	177.449	99.136	48.183	1.00104.44	A16S
ATOM	8730	C4*	G	A 416	176.760	98.350	47.085	1.00104.44	A16S
ATOM	8731	O4*	G	A 416	175.349	98.686	47.038	1.00104.44	A16S
ATOM	8732	C1*	G	A 416	174.896	98.663	45.695	1.00104.44	A16S
ATOM	8733	N9	G	A 416	174.462	100.013	45.340	1.00119.96	A16S
ATOM	8734	C4	G	A 416	173.675	100.379	44.267	1.00119.96	A16S
ATOM	8735	N3	G	A 416	173.163	99.549	43.332	1.00119.96	A16S
ATOM	8736	C2	G	A 416	172.458	100.204	42.424	1.00119.96	A16S
ATOM	8737	N2	G	A 416	171.888	99.534	41.412	1.00119.96	A16S
ATOM	8738	N1	G	A 416	172.262	101.565	42.437	1.00119.96	A16S
ATOM	8739	C6	G	A 416	172.779	102.437	43.389	1.00119.96	A16S
ATOM	8740	O6	G	A 416	172.551	103.651	43.309	1.00119.96	A16S
ATOM	8741	C5	G	A 416	173.541	101.749	44.365	1.00119.96	A16S
ATOM	8742	N7	G	A 416	174.230	102.234	45.467	1.00119.96	A16S
ATOM	8743	C8	G	A 416	174.760	101.174	46.012	1.00119.96	A16S
ATOM	8744	C2*	G	A 416	176.057	98.173	44.831	1.00104.44	A16S
ATOM	8745	O2*	G	A 416	175.952	96.769	44.701	1.00104.44	A16S
ATOM	8746	C3*	G	A 416	177.259	98.582	45.670	1.00104.44	A16S
ATOM	8747	O3*	G	A 416	178.399	97.785	45.388	1.00104.44	A16S
ATOM	8748	P	C	A 417	179.509	98.321	44.351	1.00108.85	A16S
ATOM	8749	O1P	C	A 417	180.485	97.206	44.184	1.00113.62	A16S
ATOM	8750	O2P	C	A 417	179.992	99.665	44.785	1.00113.62	A16S
ATOM	8751	O5*	C	A 417	178.700	98.519	42.987	1.00108.85	A16S
ATOM	8752	C5*	C	A 417	178.263	97.384	42.199	1.00108.85	A16S
ATOM	8753	C4*	C	A 417	177.468	97.846	40.998	1.00108.85	A16S
ATOM	8754	O4*	C	A 417	176.220	98.438	41.443	1.00108.85	A16S
ATOM	8755	C1*	C	A 417	175.887	99.531	40.605	1.00108.85	A16S
ATOM	8756	N1	C	A 417	175.882	100.765	41.416	1.00113.62	A16S
ATOM	8757	C6	C	A 417	176.612	100.852	42.569	1.00113.62	A16S
ATOM	8758	C2	C	A 417	175.122	101.867	40.976	1.00113.62	A16S
ATOM	8759	O2	C	A 417	174.454	101.767	39.931	1.00113.62	A16S
ATOM	8760	N3	C	A 417	175.136	103.008	41.701	1.00113.62	A16S
ATOM	8761	C4	C	A 417	175.858	103.079	42.821	1.00113.62	A16S
ATOM	8762	N4	C	A 417	175.834	104.222	43.504	1.00113.62	A16S
ATOM	8763	C5	C	A 417	176.631	101.978	43.293	1.00113.62	A16S
ATOM	8764	C2*	C	A 417	176.933	99.600	39.491	1.00108.85	A16S
ATOM	8765	O2*	C	A 417	176.477	98.895	38.355	1.00108.85	A16S
ATOM	8766	C3*	C	A 417	178.124	98.923	40.147	1.00108.85	A16S
ATOM	8767	O3*	C	A 417	179.021	98.394	39.184	1.00108.85	A16S
ATOM	8768	P	C	A 418	180.200	99.325	38.600	1.00 97.35	A16S
ATOM	8769	O1P	C	A 418	180.876	99.990	39.744	1.00117.12	A16S
ATOM	8770	O2P	C	A 418	181.000	98.491	37.664	1.00117.12	A16S
ATOM	8771	O5*	C	A 418	179.442	100.456	37.760	1.00 97.35	A16S



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ATOM	8772	C5*	C	A	418	178.900	100.169	36.447	1.00	97.35	A16S
ATOM	8773	C4*	C	A	418	178.419	101.436	35.760	1.00	97.35	A16S
ATOM	8774	O4*	C	A	418	177.282	101.991	36.464	1.00	97.35	A16S
ATOM	8775	C1*	C	A	418	177.272	103.398	36.310	1.00	97.35	A16S
ATOM	8776	N1	C	A	418	177.330	104.033	37.636	1.00117.12		A16S
ATOM	8777	C6	C	A	418	177.644	103.317	38.758	1.00117.12		A16S
ATOM	8778	C2	C	A	418	177.061	105.403	37.727	1.00117.12		A16S
ATOM	8779	O2	C	A	418	176.779	106.029	36.694	1.00117.12		A16S
ATOM	8780	N3	C	A	418	177.114	106.008	38.932	1.00117.12		A16S
ATOM	8781	C4	C	A	418	177.420	105.302	40.019	1.00117.12		A16S
ATOM	8782	N4	C	A	418	177.457	105.944	41.185	1.00117.12		A16S
ATOM	8783	C5	C	A	418	177.699	103.906	39.958	1.00117.12		A16S
ATOM	8784	C2*	C	A	418	178.466	103.789	35.446	1.00	97.35	A16S
ATOM	8785	O2*	C	A	418	178.014	103.943	34.118	1.00	97.35	A16S
ATOM	8786	C3*	C	A	418	179.394	102.596	35.634	1.00	97.35	A16S
ATOM	8787	O3*	C	A	418	180.242	102.443	34.506	1.00	97.35	A16S
ATOM	8788	P	C	A	419	181.710	103.104	34.512	1.00	91.45	A16S
ATOM	8789	O1P	C	A	419	182.389	102.626	33.269	1.00108.97		A16S
ATOM	8790	O2P	C	A	419	182.319	102.822	35.839	1.00108.97		A16S
ATOM	8791	O5*	C	A	419	181.453	104.678	34.397	1.00	91.45	A16S
ATOM	8792	C5*	C	A	419	181.032	105.248	33.150	1.00	91.45	A16S
ATOM	8793	C4*	C	A	419	180.513	106.658	33.332	1.00	91.45	A16S
ATOM	8794	O4*	C	A	419	179.476	106.695	34.347	1.00	91.45	A16S
ATOM	8795	C1*	C	A	419	179.443	107.986	34.943	1.00	91.45	A16S
ATOM	8796	N1	C	A	419	179.637	107.864	36.405	1.00108.97		A16S
ATOM	8797	C6	C	A	419	180.110	106.709	36.970	1.00108.97		A16S
ATOM	8798	C2	C	A	419	179.341	108.977	37.217	1.00108.97		A16S
ATOM	8799	O2	C	A	419	178.888	110.008	36.687	1.00108.97		A16S
ATOM	8800	N3	C	A	419	179.555	108.896	38.553	1.00108.97		A16S
ATOM	8801	C4	C	A	419	180.033	107.769	39.087	1.00108.97		A16S
ATOM	8802	N4	C	A	419	180.245	107.743	40.403	1.00108.97		A16S
ATOM	8803	C5	C	A	419	180.320	106.619	38.293	1.00108.97		A16S
ATOM	8804	C2*	C	A	419	180.551	108.818	34.300	1.00	91.45	A16S
ATOM	8805	O2*	C	A	419	180.004	109.625	33.273	1.00	91.45	A16S
ATOM	8806	C3*	C	A	419	181.484	107.732	33.779	1.00	91.45	A16S
ATOM	8807	O3*	C	A	419	182.290	108.214	32.727	1.00	91.45	A16S
ATOM	8808	P	U	A	420	183.786	108.686	33.050	1.00112.41		A16S
ATOM	8809	O1P	U	A	420	184.425	109.055	31.769	1.00	93.18	A16S
ATOM	8810	O2P	U	A	420	184.417	107.651	33.922	1.00	93.18	A16S
ATOM	8811	O5*	U	A	420	183.587	110.022	33.894	1.00112.41		A16S
ATOM	8812	C5*	U	A	420	183.086	111.226	33.273	1.00112.41		A16S
ATOM	8813	C4*	U	A	420	183.168	112.385	34.239	1.00112.41		A16S
ATOM	8814	O4*	U	A	420	182.245	112.152	35.334	1.00112.41		A16S
ATOM	8815	C1*	U	A	420	182.822	112.585	36.552	1.00112.41		A16S
ATOM	8816	N1	U	A	420	182.974	111.409	37.428	1.00	93.18	A16S
ATOM	8817	C6	U	A	420	183.128	110.146	36.899	1.00	93.18	A16S
ATOM	8818	C2	U	A	420	182.958	111.602	38.808	1.00	93.18	A16S
ATOM	8819	O2	U	A	420	182.808	112.701	39.330	1.00	93.18	A16S
ATOM	8820	N3	U	A	420	183.119	110.456	39.556	1.00	93.18	A16S
ATOM	8821	C4	U	A	420	183.279	109.167	39.082	1.00	93.18	A16S
ATOM	8822	O4	U	A	420	183.408	108.235	39.881	1.00	93.18	A16S
ATOM	8823	C5	U	A	420	183.274	109.053	37.656	1.00	93.18	A16S
ATOM	8824	C2*	U	A	420	184.150	113.268	36.214	1.00112.41		A16S
ATOM	8825	O2*	U	A	420	183.943	114.659	36.046	1.00112.41		A16S
ATOM	8826	C3*	U	A	420	184.523	112.585	34.905	1.00112.41		A16S
ATOM	8827	O3*	U	A	420	185.415	113.375	34.115	1.00112.41		A16S
ATOM	8828	P	U	A	421	187.004	113.094	34.181	1.00113.44		A16S
ATOM	8829	O1P	U	A	421	187.523	112.998	32.791	1.00102.17		A16S
ATOM	8830	O2P	U	A	421	187.273	111.991	35.149	1.00102.17		A16S
ATOM	8831	O5*	U	A	421	187.603	114.439	34.773	1.00113.44		A16S
ATOM	8832	C5*	U	A	421	187.013	115.050	35.915	1.00113.44		A16S
ATOM	8833	C4*	U	A	421	187.267	116.527	35.889	1.00113.44		A16S
ATOM	8834	O4*	U	A	421	186.782	117.065	34.633	1.00113.44		A16S
ATOM	8835	C1*	U	A	421	185.849	118.091	34.884	1.00113.44		A16S
ATOM	8836	N1	U	A	421	184.743	117.958	33.922	1.00102.17		A16S
ATOM	8837	C6	U	A	421	184.179	116.732	33.642	1.00102.17		A16S
ATOM	8838	C2	U	A	421	184.272	119.115	33.302	1.00102.17		A16S
ATOM	8839	O2	U	A	421	184.734	120.223	33.519	1.00102.17		A16S
ATOM	8840	N3	U	A	421	183.235	118.926	32.421	1.00102.17		A16S
ATOM	8841	C4	U	A	421	182.625	117.732	32.101	1.00102.17		A16S
ATOM	8842	O4	U	A	421	181.684	117.729	31.299	1.00102.17		A16S
ATOM	8843	C5	U	A	421	183.164	116.583	32.780	1.00102.17		A16S
ATOM	8844	C2*	U	A	421	185.371	117.922	36.325	1.00113.44		A16S
ATOM	8845	O2*	U	A	421	185.021	119.176	36.874	1.00113.44		A16S
ATOM	8846	C3*	U	A	421	186.585	117.298	37.009	1.00113.44		A16S
ATOM	8847	O3*	U	A	421	187.461	118.283	37.546	1.00113.44		A16S
ATOM	8848	P	C	A	422	188.388	117.921	38.819	1.00128.78		A16S



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ATOM	8849	O1P	C	A	422	188.690	119.209	39.497	1.00142.03	A16S
ATOM	8850	O2P	C	A	422	189.502	117.052	38.355	1.00142.03	A16S
ATOM	8851	O5*	C	A	422	187.478	117.031	39.782	1.00128.78	A16S
ATOM	8852	C5*	C	A	422	186.521	117.632	40.667	1.00128.78	A16S
ATOM	8853	C4*	C	A	422	186.147	116.669	41.775	1.00128.78	A16S
ATOM	8854	O4*	C	A	422	185.591	115.464	41.191	1.00128.78	A16S
ATOM	8855	C1*	C	A	422	186.245	114.330	41.716	1.00128.78	A16S
ATOM	8856	N1	C	A	422	186.381	113.335	40.641	1.00142.03	A16S
ATOM	8857	C6	C	A	422	186.661	113.727	39.360	1.00142.03	A16S
ATOM	8858	C2	C	A	422	186.205	111.971	40.944	1.00142.03	A16S
ATOM	8859	O2	C	A	422	185.987	111.632	42.118	1.00142.03	A16S
ATOM	8860	N3	C	A	422	186.283	111.062	39.947	1.00142.03	A16S
ATOM	8861	C4	C	A	422	186.535	111.463	38.696	1.00142.03	A16S
ATOM	8862	N4	C	A	422	186.577	110.538	37.738	1.00142.03	A16S
ATOM	8863	C5	C	A	422	186.747	112.835	38.369	1.00142.03	A16S
ATOM	8864	C2*	C	A	422	187.586	114.809	42.261	1.00128.78	A16S
ATOM	8865	O2*	C	A	422	187.982	113.952	43.316	1.00128.78	A16S
ATOM	8866	C3*	C	A	422	187.250	116.221	42.737	1.00128.78	A16S
ATOM	8867	O3*	C	A	422	186.718	116.126	44.056	1.00128.78	A16S
ATOM	8868	P	G	A	423	187.097	117.229	45.169	1.00125.68	A16S
ATOM	8869	O1P	G	A	423	188.258	118.047	44.711	1.00114.60	A16S
ATOM	8870	O2P	G	A	423	187.179	116.494	46.463	1.00114.60	A16S
ATOM	8871	O5*	G	A	423	185.826	118.198	45.193	1.00125.68	A16S
ATOM	8872	C5*	G	A	423	184.477	117.670	45.262	1.00125.68	A16S
ATOM	8873	C4*	G	A	423	183.475	118.748	44.914	1.00125.68	A16S
ATOM	8874	O4*	G	A	423	183.835	119.337	43.641	1.00125.68	A16S
ATOM	8875	C1*	G	A	423	182.662	119.725	42.949	1.00125.68	A16S
ATOM	8876	N9	G	A	423	182.707	119.170	41.595	1.00114.60	A16S
ATOM	8877	C4	G	A	423	182.757	117.836	41.223	1.00114.60	A16S
ATOM	8878	N3	G	A	423	182.759	116.769	42.056	1.00114.60	A16S
ATOM	8879	C2	G	A	423	182.830	115.621	41.393	1.00114.60	A16S
ATOM	8880	N2	G	A	423	182.868	114.459	42.061	1.00114.60	A16S
ATOM	8881	N1	G	A	423	182.879	115.525	40.026	1.00114.60	A16S
ATOM	8882	C6	G	A	423	182.874	116.603	39.148	1.00114.60	A16S
ATOM	8883	O6	G	A	423	182.921	116.402	37.924	1.00114.60	A16S
ATOM	8884	C5	G	A	423	182.811	117.847	39.844	1.00114.60	A16S
ATOM	8885	N7	G	A	423	182.789	119.149	39.360	1.00114.60	A16S
ATOM	8886	C8	G	A	423	182.723	119.895	40.428	1.00114.60	A16S
ATOM	8887	C2*	G	A	423	181.448	119.341	43.800	1.00125.68	A16S
ATOM	8888	O2*	G	A	423	180.962	120.480	44.485	1.00125.68	A16S
ATOM	8889	C3*	G	A	423	182.033	118.292	44.741	1.00125.68	A16S
ATOM	8890	O3*	G	A	423	181.338	118.296	45.981	1.00125.68	A16S
ATOM	8891	P	G	A	424	180.437	117.033	46.396	1.00136.86	A16S
ATOM	8892	O1P	G	A	424	179.621	117.429	47.575	1.00106.11	A16S
ATOM	8893	O2P	G	A	424	181.340	115.856	46.489	1.00106.11	A16S
ATOM	8894	O5*	G	A	424	179.440	116.821	45.166	1.00136.86	A16S
ATOM	8895	C5*	G	A	424	178.683	117.924	44.618	1.00136.86	A16S
ATOM	8896	C4*	G	A	424	178.386	117.683	43.151	1.00136.86	A16S
ATOM	8897	O4*	G	A	424	179.567	117.094	42.541	1.00136.86	A16S
ATOM	8898	C1*	G	A	424	179.183	116.168	41.541	1.00136.86	A16S
ATOM	8899	N9	G	A	424	179.609	114.832	41.949	1.00106.11	A16S
ATOM	8900	C4	G	A	424	179.745	113.738	41.123	1.00106.11	A16S
ATOM	8901	N3	G	A	424	179.535	113.721	39.789	1.00106.11	A16S
ATOM	8902	C2	G	A	424	179.711	112.519	39.276	1.00106.11	A16S
ATOM	8903	N2	G	A	424	179.530	112.326	37.968	1.00106.11	A16S
ATOM	8904	N1	G	A	424	180.074	111.416	40.009	1.00106.11	A16S
ATOM	8905	C6	G	A	424	180.304	111.406	41.383	1.00106.11	A16S
ATOM	8906	O6	G	A	424	180.636	110.351	41.948	1.00106.11	A16S
ATOM	8907	C5	G	A	424	180.108	112.695	41.953	1.00106.11	A16S
ATOM	8908	N7	G	A	424	180.214	113.126	43.270	1.00106.11	A16S
ATOM	8909	C8	G	A	424	179.918	114.398	43.219	1.00106.11	A16S
ATOM	8910	C2*	G	A	424	177.663	116.226	41.422	1.00136.86	A16S
ATOM	8911	O2*	G	A	424	177.318	117.128	40.390	1.00136.86	A16S
ATOM	8912	C3*	G	A	424	177.264	116.706	42.813	1.00136.86	A16S
ATOM	8913	O3*	G	A	424	175.974	117.323	42.812	1.00136.86	A16S
ATOM	8914	P	G	A	425	174.643	116.406	42.803	1.00110.91	A16S
ATOM	8915	O1P	G	A	425	173.454	117.311	42.834	1.00104.11	A16S
ATOM	8916	O2P	G	A	425	174.786	115.343	43.831	1.00104.11	A16S
ATOM	8917	O5*	G	A	425	174.666	115.701	41.375	1.00110.91	A16S
ATOM	8918	C5*	G	A	425	174.502	116.477	40.179	1.00110.91	A16S
ATOM	8919	C4*	G	A	425	174.486	115.581	38.971	1.00110.91	A16S
ATOM	8920	O4*	G	A	425	175.774	114.927	38.824	1.00110.91	A16S
ATOM	8921	C1*	G	A	425	175.590	113.635	38.272	1.00110.91	A16S
ATOM	8922	N9	G	A	425	176.077	112.643	39.223	1.00104.11	A16S
ATOM	8923	C4	G	A	425	176.149	111.284	39.015	1.00104.11	A16S
ATOM	8924	N3	G	A	425	175.802	110.635	37.882	1.00104.11	A16S
ATOM	8925	C2	G	A	425	175.970	109.326	37.990	1.00104.11	A16S



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ATOM	8926	N2	G	A	425	175.678	108.527	36.956	1.00104.11	A16S
ATOM	8927	N1	G	A	425	176.437	108.704	39.119	1.00104.11	A16S
ATOM	8928	C6	G	A	425	176.800	109.348	40.294	1.00104.11	A16S
ATOM	8929	O6	G	A	425	177.209	108.688	41.253	1.00104.11	A16S
ATOM	8930	C5	G	A	425	176.628	110.757	40.193	1.00104.11	A16S
ATOM	8931	N7	G	A	425	176.868	111.763	41.119	1.00104.11	A16S
ATOM	8932	C8	G	A	425	176.530	112.861	40.499	1.00104.11	A16S
ATOM	8933	C2*	G	A	425	174.094	113.453	38.016	1.00110.91	A16S
ATOM	8934	O2*	G	A	425	173.818	113.788	36.672	1.00110.91	A16S
ATOM	8935	C3*	G	A	425	173.487	114.438	39.006	1.00110.91	A16S
ATOM	8936	O3*	G	A	425	172.173	114.849	38.644	1.00110.91	A16S
ATOM	8937	P	G	A	426	170.905	114.026	39.202	1.00 89.31	A16S
ATOM	8938	O1P	G	A	426	169.687	114.628	38.608	1.00104.73	A16S
ATOM	8939	O2P	G	A	426	171.010	113.892	40.681	1.00104.73	A16S
ATOM	8940	O5*	G	A	426	171.095	112.574	38.576	1.00 89.31	A16S
ATOM	8941	C5*	G	A	426	171.129	112.399	37.150	1.00 89.31	A16S
ATOM	8942	C4*	G	A	426	171.193	110.937	36.789	1.00 89.31	A16S
ATOM	8943	O4*	G	A	426	172.458	110.369	37.201	1.00 89.31	A16S
ATOM	8944	C1*	G	A	426	172.291	108.984	37.448	1.00 89.31	A16S
ATOM	8945	N9	G	A	426	172.793	108.667	38.780	1.00104.73	A16S
ATOM	8946	C4	G	A	426	173.285	107.451	39.187	1.00104.73	A16S
ATOM	8947	N3	G	A	426	173.421	106.352	38.415	1.00104.73	A16S
ATOM	8948	C2	G	A	426	173.915	105.330	39.095	1.00104.73	A16S
ATOM	8949	N2	G	A	426	174.134	104.161	38.482	1.00104.73	A16S
ATOM	8950	N1	G	A	426	174.237	105.378	40.428	1.00104.73	A16S
ATOM	8951	C6	G	A	426	174.098	106.493	41.245	1.00104.73	A16S
ATOM	8952	O6	G	A	426	174.401	106.419	42.444	1.00104.73	A16S
ATOM	8953	C5	G	A	426	173.586	107.607	40.523	1.00104.73	A16S
ATOM	8954	N7	G	A	426	173.312	108.902	40.942	1.00104.73	A16S
ATOM	8955	C8	G	A	426	172.849	109.495	39.875	1.00104.73	A16S
ATOM	8956	C2*	G	A	426	170.807	108.649	37.278	1.00 89.31	A16S
ATOM	8957	O2*	G	A	426	170.620	108.070	35.999	1.00 89.31	A16S
ATOM	8958	C3*	G	A	426	170.156	110.022	37.411	1.00 89.31	A16S
ATOM	8959	O3*	G	A	426	168.933	110.092	36.703	1.00 89.31	A16S
ATOM	8960	P	U	A	427	167.576	109.639	37.425	1.00 77.94	A16S
ATOM	8961	O1P	U	A	427	166.465	109.872	36.474	1.00115.73	A16S
ATOM	8962	O2P	U	A	427	167.531	110.261	38.763	1.00115.73	A16S
ATOM	8963	O5*	U	A	427	167.761	108.071	37.608	1.00 77.94	A16S
ATOM	8964	C5*	U	A	427	167.840	107.219	36.458	1.00 77.94	A16S
ATOM	8965	C4*	U	A	427	168.114	105.796	36.867	1.00 77.94	A16S
ATOM	8966	O4*	U	A	427	169.427	105.694	37.468	1.00 77.94	A16S
ATOM	8967	C1*	U	A	427	169.416	104.675	38.450	1.00 77.94	A16S
ATOM	8968	N1	U	A	427	169.887	105.241	39.725	1.00115.73	A16S
ATOM	8969	C6	U	A	427	169.531	106.512	40.130	1.00115.73	A16S
ATOM	8970	C2	U	A	427	170.711	104.449	40.511	1.00115.73	A16S
ATOM	8971	O2	U	A	427	171.042	103.313	40.204	1.00115.73	A16S
ATOM	8972	N3	U	A	427	171.132	105.035	41.675	1.00115.73	A16S
ATOM	8973	C4	U	A	427	170.819	106.294	42.135	1.00115.73	A16S
ATOM	8974	O4	U	A	427	171.277	106.670	43.218	1.00115.73	A16S
ATOM	8975	C5	U	A	427	169.955	107.049	41.276	1.00115.73	A16S
ATOM	8976	C2*	U	A	427	168.006	104.078	38.500	1.00 77.94	A16S
ATOM	8977	O2*	U	A	427	167.992	102.903	37.719	1.00 77.94	A16S
ATOM	8978	C3*	U	A	427	167.167	105.193	37.885	1.00 77.94	A16S
ATOM	8979	O3*	U	A	427	166.032	104.682	37.216	1.00 77.94	A16S
ATOM	8980	P	G	A	428	164.698	104.350	38.038	1.00 76.87	A16S
ATOM	8981	O1P	G	A	428	165.005	103.274	39.017	1.00 97.51	A16S
ATOM	8982	O2P	G	A	428	163.583	104.171	37.064	1.00 97.51	A16S
ATOM	8983	O5*	G	A	428	164.415	105.679	38.849	1.00 76.87	A16S
ATOM	8984	C5*	G	A	428	163.077	106.053	39.182	1.00 76.87	A16S
ATOM	8985	C4*	G	A	428	163.100	107.280	40.045	1.00 76.87	A16S
ATOM	8986	O4*	G	A	428	163.601	106.911	41.359	1.00 76.87	A16S
ATOM	8987	C1*	G	A	428	164.807	107.596	41.641	1.00 76.87	A16S
ATOM	8988	N9	G	A	428	165.774	106.612	42.124	1.00 97.51	A16S
ATOM	8989	C4	G	A	428	166.626	106.753	43.190	1.00 97.51	A16S
ATOM	8990	N3	G	A	428	166.695	107.816	44.006	1.00 97.51	A16S
ATOM	8991	C2	G	A	428	167.622	107.671	44.930	1.00 97.51	A16S
ATOM	8992	N2	G	A	428	167.808	108.640	45.832	1.00 97.51	A16S
ATOM	8993	N1	G	A	428	168.430	106.571	45.041	1.00 97.51	A16S
ATOM	8994	C6	G	A	428	168.380	105.464	44.211	1.00 97.51	A16S
ATOM	8995	O6	G	A	428	169.163	104.531	44.392	1.00 97.51	A16S
ATOM	8996	C5	G	A	428	167.374	105.600	43.220	1.00 97.51	A16S
ATOM	8997	N7	G	A	428	166.981	104.733	42.215	1.00 97.51	A16S
ATOM	8998	C8	G	A	428	166.029	105.374	41.591	1.00 97.51	A16S
ATOM	8999	C2*	G	A	428	165.292	108.243	40.346	1.00 76.87	A16S
ATOM	9000	O2*	G	A	428	166.013	109.431	40.588	1.00 76.87	A16S
ATOM	9001	C3*	G	A	428	164.006	108.383	39.519	1.00 76.87	A16S
ATOM	9002	O3*	G	A	428	163.320	109.645	39.396	1.00 76.87	A16S



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ATOM	9003	P	U	A 429	162.867	110.466	40.694	1.00	89.58	A16S
ATOM	9004	O1P	U	A 429	162.028	111.572	40.171	1.00	111.39	A16S
ATOM	9005	O2P	U	A 429	164.057	110.781	41.513	1.00	111.39	A16S
ATOM	9006	O5*	U	A 429	161.955	109.431	41.498	1.00	89.58	A16S
ATOM	9007	C5*	U	A 429	160.637	109.798	41.923	1.00	89.58	A16S
ATOM	9008	C4*	U	A 429	159.913	108.614	42.515	1.00	89.58	A16S
ATOM	9009	O4*	U	A 429	160.589	108.143	43.714	1.00	89.58	A16S
ATOM	9010	C1*	U	A 429	159.647	108.068	44.761	1.00	89.58	A16S
ATOM	9011	N1	U	A 429	160.325	108.196	46.057	1.00	111.39	A16S
ATOM	9012	C6	U	A 429	160.693	109.411	46.579	1.00	111.39	A16S
ATOM	9013	C2	U	A 429	160.569	107.022	46.741	1.00	111.39	A16S
ATOM	9014	O2	U	A 429	160.250	105.929	46.311	1.00	111.39	A16S
ATOM	9015	N3	U	A 429	161.193	107.170	47.948	1.00	111.39	A16S
ATOM	9016	C4	U	A 429	161.587	108.346	48.534	1.00	111.39	A16S
ATOM	9017	O4	U	A 429	162.187	108.310	49.614	1.00	111.39	A16S
ATOM	9018	C5	U	A 429	161.292	109.526	47.764	1.00	111.39	A16S
ATOM	9019	C2*	U	A 429	158.583	109.111	44.440	1.00	89.58	A16S
ATOM	9020	O2*	U	A 429	157.382	108.846	45.140	1.00	89.58	A16S
ATOM	9021	C3*	U	A 429	158.473	108.936	42.930	1.00	89.58	A16S
ATOM	9022	O3*	U	A 429	157.622	107.819	42.702	1.00	89.58	A16S
ATOM	9023	P	A	A 430	157.653	107.058	41.290	1.00	88.22	A16S
ATOM	9024	O1P	A	A 430	157.987	108.061	40.235	1.00	107.83	A16S
ATOM	9025	O2P	A	A 430	156.402	106.251	41.183	1.00	107.83	A16S
ATOM	9026	O5*	A	A 430	158.897	106.074	41.423	1.00	88.22	A16S
ATOM	9027	C5*	A	A 430	159.058	105.258	42.583	1.00	88.22	A16S
ATOM	9028	C4*	A	A 430	159.978	104.110	42.283	1.00	88.22	A16S
ATOM	9029	O4*	A	A 430	161.307	104.619	41.998	1.00	88.22	A16S
ATOM	9030	C1*	A	A 430	162.283	103.719	42.497	1.00	88.22	A16S
ATOM	9031	N9	A	A 430	163.080	104.414	43.504	1.00	107.83	A16S
ATOM	9032	C4	A	A 430	164.189	103.915	44.139	1.00	107.83	A16S
ATOM	9033	N3	A	A 430	164.772	102.721	43.944	1.00	107.83	A16S
ATOM	9034	C2	A	A 430	165.806	102.570	44.763	1.00	107.83	A16S
ATOM	9035	N1	A	A 430	166.285	103.413	45.682	1.00	107.83	A16S
ATOM	9036	C6	A	A 430	165.674	104.606	45.845	1.00	107.83	A16S
ATOM	9037	N6	A	A 430	166.146	105.454	46.756	1.00	107.83	A16S
ATOM	9038	C5	A	A 430	164.572	104.887	45.043	1.00	107.83	A16S
ATOM	9039	N7	A	A 430	163.738	105.990	44.966	1.00	107.83	A16S
ATOM	9040	C8	A	A 430	162.875	105.664	44.036	1.00	107.83	A16S
ATOM	9041	C2*	A	A 430	161.543	102.532	43.114	1.00	88.22	A16S
ATOM	9042	O2*	A	A 430	161.487	101.478	42.171	1.00	88.22	A16S
ATOM	9043	C3*	A	A 430	160.187	103.151	43.437	1.00	88.22	A16S
ATOM	9044	O3*	A	A 430	159.128	102.207	43.532	1.00	88.22	A16S
ATOM	9045	P	A	A 431	158.507	101.864	44.973	1.00	97.32	A16S
ATOM	9046	O1P	A	A 431	157.501	100.790	44.784	1.00	98.27	A16S
ATOM	9047	O2P	A	A 431	158.100	103.142	45.608	1.00	98.27	A16S
ATOM	9048	O5*	A	A 431	159.746	101.257	45.772	1.00	97.32	A16S
ATOM	9049	C5*	A	A 431	160.494	100.159	45.217	1.00	97.32	A16S
ATOM	9050	C4*	A	A 431	161.733	99.866	46.037	1.00	97.32	A16S
ATOM	9051	O4*	A	A 431	162.694	100.946	45.933	1.00	97.32	A16S
ATOM	9052	C1*	A	A 431	163.472	101.002	47.119	1.00	97.32	A16S
ATOM	9053	N9	A	A 431	163.393	102.347	47.690	1.00	98.27	A16S
ATOM	9054	C4	A	A 431	164.078	102.779	48.797	1.00	98.27	A16S
ATOM	9055	N3	A	A 431	164.930	102.070	49.553	1.00	98.27	A16S
ATOM	9056	C2	A	A 431	165.408	102.820	50.536	1.00	98.27	A16S
ATOM	9057	N1	A	A 431	165.147	104.100	50.830	1.00	98.27	A16S
ATOM	9058	C6	A	A 431	164.276	104.777	50.054	1.00	98.27	A16S
ATOM	9059	N6	A	A 431	163.993	106.044	50.356	1.00	98.27	A16S
ATOM	9060	C5	A	A 431	163.710	104.100	48.976	1.00	98.27	A16S
ATOM	9061	N7	A	A 431	162.809	104.497	48.001	1.00	98.27	A16S
ATOM	9062	C8	A	A 431	162.652	103.423	47.266	1.00	98.27	A16S
ATOM	9063	C2*	A	A 431	162.950	99.933	48.076	1.00	97.32	A16S
ATOM	9064	O2*	A	A 431	163.805	98.809	48.007	1.00	97.32	A16S
ATOM	9065	C3*	A	A 431	161.548	99.676	47.529	1.00	97.32	A16S
ATOM	9066	O3*	A	A 431	161.083	98.374	47.841	1.00	97.32	A16S
ATOM	9067	P	A	A 432	160.149	98.161	49.129	1.00	126.57	A16S
ATOM	9068	O1P	A	A 432	159.830	96.711	49.176	1.00	109.18	A16S
ATOM	9069	O2P	A	A 432	159.044	99.163	49.103	1.00	109.18	A16S
ATOM	9070	O5*	A	A 432	161.109	98.519	50.351	1.00	126.57	A16S
ATOM	9071	C5*	A	A 432	162.347	97.801	50.562	1.00	126.57	A16S
ATOM	9072	C4*	A	A 432	163.116	98.406	51.716	1.00	126.57	A16S
ATOM	9073	O4*	A	A 432	163.598	99.723	51.348	1.00	126.57	A16S
ATOM	9074	C1*	A	A 432	163.510	100.592	52.465	1.00	126.57	A16S
ATOM	9075	N9	A	A 432	162.538	101.631	52.142	1.00	109.18	A16S
ATOM	9076	C4	A	A 432	162.594	102.951	52.511	1.00	109.18	A16S
ATOM	9077	N3	A	A 432	163.558	103.557	53.220	1.00	109.18	A16S
ATOM	9078	C2	A	A 432	163.274	104.845	53.386	1.00	109.18	A16S
ATOM	9079	N1	A	A 432	162.215	105.541	52.959	1.00	109.18	A16S



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ATOM	9080	C6	A	A 432	161.263	104.899	52.253	1.00109.18	A16S
ATOM	9081	N6	A	A 432	160.203	105.592	51.835	1.00109.18	A16S
ATOM	9082	C5	A	A 432	161.449	103.532	52.004	1.00109.18	A16S
ATOM	9083	N7	A	A 432	160.689	102.598	51.318	1.00109.18	A16S
ATOM	9084	C8	A	A 432	161.376	101.491	51.428	1.00109.18	A16S
ATOM	9085	C2*	A	A 432	163.043	99.768	53.664	1.00126.57	A16S
ATOM	9086	O2*	A	A 432	164.162	99.341	54.415	1.00126.57	A16S
ATOM	9087	C3*	A	A 432	162.299	98.633	52.977	1.00126.57	A16S
ATOM	9088	O3*	A	A 432	162.218	97.464	53.769	1.00126.57	A16S
ATOM	9089	P	C	A 433	160.783	96.942	54.255	1.00109.42	A16S
ATOM	9090	O1P	C	A 433	161.060	95.864	55.235	1.00110.65	A16S
ATOM	9091	O2P	C	A 433	159.932	96.661	53.073	1.00110.65	A16S
ATOM	9092	O5*	C	A 433	160.150	98.192	55.009	1.00109.42	A16S
ATOM	9093	C5*	C	A 433	160.757	98.701	56.202	1.00109.42	A16S
ATOM	9094	C4*	C	A 433	160.140	100.022	56.594	1.00109.42	A16S
ATOM	9095	O4*	C	A 433	160.432	101.029	55.590	1.00109.42	A16S
ATOM	9096	C1*	C	A 433	159.372	101.972	55.544	1.00109.42	A16S
ATOM	9097	N1	C	A 433	158.843	102.035	54.167	1.00110.65	A16S
ATOM	9098	C6	C	A 433	158.758	100.912	53.388	1.00110.65	A16S
ATOM	9099	C2	C	A 433	158.413	103.274	53.669	1.00110.65	A16S
ATOM	9100	O2	C	A 433	158.512	104.281	54.388	1.00110.65	A16S
ATOM	9101	N3	C	A 433	157.904	103.342	52.420	1.00110.65	A16S
ATOM	9102	C4	C	A 433	157.826	102.242	51.670	1.00110.65	A16S
ATOM	9103	N4	C	A 433	157.331	102.364	50.440	1.00110.65	A16S
ATOM	9104	C5	C	A 433	158.259	100.969	52.147	1.00110.65	A16S
ATOM	9105	C2*	C	A 433	158.315	101.545	56.567	1.00109.42	A16S
ATOM	9106	O2*	C	A 433	158.477	102.291	57.758	1.00109.42	A16S
ATOM	9107	C3*	C	A 433	158.628	100.060	56.733	1.00109.42	A16S
ATOM	9108	O3*	C	A 433	158.191	99.551	57.982	1.00109.42	A16S
ATOM	9109	P	U	A 434	156.695	98.988	58.120	1.00102.56	A16S
ATOM	9110	O1P	U	A 434	156.515	98.532	59.521	1.00103.44	A16S
ATOM	9111	O2P	U	A 434	156.441	98.037	57.001	1.00103.44	A16S
ATOM	9112	O5*	U	A 434	155.800	100.288	57.912	1.00102.56	A16S
ATOM	9113	C5*	U	A 434	155.783	101.320	58.908	1.00102.56	A16S
ATOM	9114	C4*	U	A 434	154.656	102.283	58.645	1.00102.56	A16S
ATOM	9115	O4*	U	A 434	154.986	103.130	57.520	1.00102.56	A16S
ATOM	9116	C1*	U	A 434	153.803	103.451	56.810	1.00102.56	A16S
ATOM	9117	N1	U	A 434	153.963	103.029	55.410	1.00103.44	A16S
ATOM	9118	C6	U	A 434	154.817	102.008	55.062	1.00103.44	A16S
ATOM	9119	C2	U	A 434	153.220	103.687	54.451	1.00103.44	A16S
ATOM	9120	O2	U	A 434	152.464	104.603	54.709	1.00103.44	A16S
ATOM	9121	N3	U	A 434	153.394	103.232	53.174	1.00103.44	A16S
ATOM	9122	C4	U	A 434	154.219	102.213	52.761	1.00103.44	A16S
ATOM	9123	O4	U	A 434	154.204	101.868	51.579	1.00103.44	A16S
ATOM	9124	C5	U	A 434	154.967	101.591	53.806	1.00103.44	A16S
ATOM	9125	C2*	U	A 434	152.621	102.775	57.518	1.00102.56	A16S
ATOM	9126	O2*	U	A 434	151.957	103.684	58.373	1.00102.56	A16S
ATOM	9127	C3*	U	A 434	153.310	101.663	58.295	1.00102.56	A16S
ATOM	9128	O3*	U	A 434	152.567	101.320	59.459	1.00102.56	A16S
ATOM	9129	P	C	A 435	151.462	100.154	59.386	1.00101.80	A16S
ATOM	9130	O1P	C	A 435	150.954	99.951	60.773	1.00113.71	A16S
ATOM	9131	O2P	C	A 435	152.037	99.000	58.640	1.00113.71	A16S
ATOM	9132	O5*	C	A 435	150.279	100.801	58.533	1.00101.80	A16S
ATOM	9133	C5*	C	A 435	149.462	101.839	59.103	1.00101.80	A16S
ATOM	9134	C4*	C	A 435	148.661	102.531	58.031	1.00101.80	A16S
ATOM	9135	O4*	C	A 435	149.565	103.083	57.046	1.00101.80	A16S
ATOM	9136	C1*	C	A 435	148.975	103.006	55.763	1.00101.80	A16S
ATOM	9137	N1	C	A 435	149.845	102.189	54.897	1.00113.71	A16S
ATOM	9138	C6	C	A 435	150.730	101.300	55.439	1.00113.71	A16S
ATOM	9139	C2	C	A 435	149.753	102.333	53.507	1.00113.71	A16S
ATOM	9140	O2	C	A 435	148.942	103.146	53.032	1.00113.71	A16S
ATOM	9141	N3	C	A 435	150.546	101.577	52.718	1.00113.71	A16S
ATOM	9142	C4	C	A 435	151.401	100.711	53.263	1.00113.71	A16S
ATOM	9143	N4	C	A 435	152.162	99.980	52.447	1.00113.71	A16S
ATOM	9144	C5	C	A 435	151.518	100.552	54.667	1.00113.71	A16S
ATOM	9145	C2*	C	A 435	147.570	102.425	55.931	1.00101.80	A16S
ATOM	9146	O2*	C	A 435	146.648	103.492	56.017	1.00101.80	A16S
ATOM	9147	C3*	C	A 435	147.704	101.659	57.241	1.00101.80	A16S
ATOM	9148	O3*	C	A 435	146.459	101.554	57.918	1.00101.80	A16S
ATOM	9149	P	C	A 436	145.483	100.311	57.612	1.00 97.23	A16S
ATOM	9150	O1P	C	A 436	144.310	100.414	58.519	1.00100.39	A16S
ATOM	9151	O2P	C	A 436	146.306	99.073	57.616	1.00100.39	A16S
ATOM	9152	O5*	C	A 436	144.949	100.590	56.135	1.00 97.23	A16S
ATOM	9153	C5*	C	A 436	144.068	101.704	55.869	1.00 97.23	A16S
ATOM	9154	C4*	C	A 436	143.728	101.783	54.394	1.00 97.23	A16S
ATOM	9155	O4*	C	A 436	144.907	102.146	53.625	1.00 97.23	A16S
ATOM	9156	C1*	C	A 436	144.870	101.502	52.360	1.00 97.23	A16S



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ATOM	9157	N1	C	A	436	146.056	100.629	52.247	1.00100.39	A16S
ATOM	9158	C6	C	A	436	146.959	100.540	53.270	1.00100.39	A16S
ATOM	9159	C2	C	A	436	146.243	99.880	51.075	1.00100.39	A16S
ATOM	9160	O2	C	A	436	145.420	99.988	50.147	1.00100.39	A16S
ATOM	9161	N3	C	A	436	147.317	99.059	50.985	1.00100.39	A16S
ATOM	9162	C4	C	A	436	148.183	98.975	52.001	1.00100.39	A16S
ATOM	9163	N4	C	A	436	149.220	98.145	51.877	1.00100.39	A16S
ATOM	9164	C5	C	A	436	148.023	99.735	53.190	1.00100.39	A16S
ATOM	9165	C2*	C	A	436	143.550	100.728	52.274	1.00 97.23	A16S
ATOM	9166	O2*	C	A	436	142.578	101.511	51.610	1.00 97.23	A16S
ATOM	9167	C3*	C	A	436	143.222	100.508	53.744	1.00 97.23	A16S
ATOM	9168	O3*	C	A	436	141.834	100.315	53.951	1.00 97.23	A16S
ATOM	9169	P	U	A	437	141.248	98.819	53.985	1.00 93.06	A16S
ATOM	9170	O1P	U	A	437	139.852	98.863	54.494	1.00 93.18	A16S
ATOM	9171	O2P	U	A	437	142.250	97.932	54.645	1.00 93.18	A16S
ATOM	9172	O5*	U	A	437	141.157	98.407	52.451	1.00 93.06	A16S
ATOM	9173	C5*	U	A	437	140.250	99.080	51.551	1.00 93.06	A16S
ATOM	9174	C4*	U	A	437	140.469	98.603	50.134	1.00 93.06	A16S
ATOM	9175	O4*	U	A	437	141.836	98.891	49.744	1.00 93.06	A16S
ATOM	9176	C1*	U	A	437	142.322	97.853	48.921	1.00 93.06	A16S
ATOM	9177	N1	U	A	437	143.509	97.262	49.560	1.00 93.18	A16S
ATOM	9178	C6	U	A	437	143.794	97.454	50.890	1.00 93.18	A16S
ATOM	9179	C2	U	A	437	144.340	96.496	48.768	1.00 93.18	A16S
ATOM	9180	O2	U	A	437	144.127	96.309	47.579	1.00 93.18	A16S
ATOM	9181	N3	U	A	437	145.431	95.959	49.411	1.00 93.18	A16S
ATOM	9182	C4	U	A	437	145.773	96.112	50.731	1.00 93.18	A16S
ATOM	9183	O4	U	A	437	146.808	95.593	51.154	1.00 93.18	A16S
ATOM	9184	C5	U	A	437	144.868	96.921	51.485	1.00 93.18	A16S
ATOM	9185	C2*	U	A	437	141.183	96.857	48.694	1.00 93.06	A16S
ATOM	9186	O2*	U	A	437	140.513	97.201	47.504	1.00 93.06	A16S
ATOM	9187	C3*	U	A	437	140.301	97.109	49.907	1.00 93.06	A16S
ATOM	9188	O3*	U	A	437	138.941	96.796	49.632	1.00 93.06	A16S
ATOM	9189	P	G	A	438	138.401	95.300	49.861	1.00101.72	A16S
ATOM	9190	O1P	G	A	438	137.079	95.187	49.187	1.00 99.41	A16S
ATOM	9191	O2P	G	A	438	138.515	94.978	51.305	1.00 99.41	A16S
ATOM	9192	O5*	G	A	438	139.447	94.380	49.083	1.00101.72	A16S
ATOM	9193	C5*	G	A	438	139.389	94.202	47.646	1.00101.72	A16S
ATOM	9194	C4*	G	A	438	140.437	93.202	47.217	1.00101.72	A16S
ATOM	9195	O4*	G	A	438	141.703	93.671	47.734	1.00101.72	A16S
ATOM	9196	C1*	G	A	438	142.479	92.570	48.165	1.00101.72	A16S
ATOM	9197	N9	G	A	438	142.978	92.830	49.515	1.00 99.41	A16S
ATOM	9198	C4	G	A	438	144.237	92.531	50.000	1.00 99.41	A16S
ATOM	9199	N3	G	A	438	145.216	91.881	49.334	1.00 99.41	A16S
ATOM	9200	C2	G	A	438	146.322	91.777	50.055	1.00 99.41	A16S
ATOM	9201	N2	G	A	438	147.399	91.156	49.552	1.00 99.41	A16S
ATOM	9202	N1	G	A	438	146.456	92.270	51.324	1.00 99.41	A16S
ATOM	9203	C6	G	A	438	145.464	92.935	52.033	1.00 99.41	A16S
ATOM	9204	O6	G	A	438	145.694	93.339	53.185	1.00 99.41	A16S
ATOM	9205	C5	G	A	438	144.269	93.052	51.271	1.00 99.41	A16S
ATOM	9206	N7	G	A	438	143.051	93.628	51.596	1.00 99.41	A16S
ATOM	9207	C8	G	A	438	142.315	93.464	50.533	1.00 99.41	A16S
ATOM	9208	C2*	G	A	438	141.677	91.290	47.941	1.00101.72	A16S
ATOM	9209	O2*	G	A	438	142.092	90.725	46.720	1.00101.72	A16S
ATOM	9210	C3*	G	A	438	140.253	91.806	47.810	1.00101.72	A16S
ATOM	9211	O3*	G	A	438	139.534	90.845	46.998	1.00101.72	A16S
ATOM	9212	P	A	A	439	139.310	91.066	45.404	1.00 77.28	A16S
ATOM	9213	O1P	A	A	439	139.237	92.510	45.074	1.00 98.87	A16S
ATOM	9214	O2P	A	A	439	138.185	90.167	44.992	1.00 98.87	A16S
ATOM	9215	O5*	A	A	439	140.637	90.499	44.728	1.00 77.28	A16S
ATOM	9216	C5*	A	A	439	140.753	89.103	44.403	1.00 77.28	A16S
ATOM	9217	C4*	A	A	439	141.397	88.927	43.044	1.00 77.28	A16S
ATOM	9218	O4*	A	A	439	142.745	89.463	43.073	1.00 77.28	A16S
ATOM	9219	C1*	A	A	439	143.613	88.624	42.325	1.00 77.28	A16S
ATOM	9220	N9	A	A	439	144.604	88.063	43.244	1.00 98.87	A16S
ATOM	9221	C4	A	A	439	145.751	87.397	42.898	1.00 98.87	A16S
ATOM	9222	N3	A	A	439	146.193	87.131	41.660	1.00 98.87	A16S
ATOM	9223	C2	A	A	439	147.353	86.482	41.709	1.00 98.87	A16S
ATOM	9224	N1	A	A	439	148.069	86.100	42.773	1.00 98.87	A16S
ATOM	9225	C6	A	A	439	147.598	86.387	44.003	1.00 98.87	A16S
ATOM	9226	N6	A	A	439	148.320	86.017	45.065	1.00 98.87	A16S
ATOM	9227	C5	A	A	439	146.370	87.067	44.088	1.00 98.87	A16S
ATOM	9228	N7	A	A	439	145.621	87.506	45.168	1.00 98.87	A16S
ATOM	9229	C8	A	A	439	144.588	88.087	44.616	1.00 98.87	A16S
ATOM	9230	C2*	A	A	439	142.760	87.537	41.675	1.00 77.28	A16S
ATOM	9231	O2*	A	A	439	142.400	87.917	40.361	1.00 77.28	A16S
ATOM	9232	C3*	A	A	439	141.574	87.478	42.625	1.00 77.28	A16S
ATOM	9233	O3*	A	A	439	140.410	86.949	42.008	1.00 77.28	A16S



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ATOM	9234	P	A	A 440	140.045	85.400	42.221	1.00	88.00	A16S
ATOM	9235	O1P	A	A 440	138.911	85.049	41.327	1.00	106.42	A16S
ATOM	9236	O2P	A	A 440	139.930	85.153	43.682	1.00	106.42	A16S
ATOM	9237	O5*	A	A 440	141.342	84.651	41.685	1.00	88.00	A16S
ATOM	9238	C5*	A	A 440	141.675	83.359	42.174	1.00	88.00	A16S
ATOM	9239	C4*	A	A 440	143.163	83.233	42.369	1.00	88.00	A16S
ATOM	9240	O4*	A	A 440	143.697	84.422	43.009	1.00	88.00	A16S
ATOM	9241	C1*	A	A 440	144.611	84.048	44.026	1.00	88.00	A16S
ATOM	9242	N9	A	A 440	144.021	84.453	45.306	1.00	106.42	A16S
ATOM	9243	C4	A	A 440	144.612	84.462	46.549	1.00	106.42	A16S
ATOM	9244	N3	A	A 440	145.866	84.097	46.866	1.00	106.42	A16S
ATOM	9245	C2	A	A 440	146.083	84.239	48.175	1.00	106.42	A16S
ATOM	9246	N1	A	A 440	145.252	84.674	49.129	1.00	106.42	A16S
ATOM	9247	C6	A	A 440	144.002	85.034	48.776	1.00	106.42	A16S
ATOM	9248	N6	A	A 440	143.177	85.475	49.723	1.00	106.42	A16S
ATOM	9249	C5	A	A 440	143.646	84.925	47.421	1.00	106.42	A16S
ATOM	9250	N7	A	A 440	142.468	85.196	46.746	1.00	106.42	A16S
ATOM	9251	C8	A	A 440	142.741	84.905	45.503	1.00	106.42	A16S
ATOM	9252	C2*	A	A 440	144.824	82.533	43.913	1.00	88.00	A16S
ATOM	9253	O2*	A	A 440	145.916	82.260	43.060	1.00	88.00	A16S
ATOM	9254	C3*	A	A 440	143.506	82.087	43.300	1.00	88.00	A16S
ATOM	9255	O3*	A	A 440	143.572	80.871	42.576	1.00	88.00	A16S
ATOM	9256	P	C	A 442	142.322	79.864	42.618	1.00	114.40	A16S
ATOM	9257	O1P	C	A 442	142.700	78.683	41.793	1.00	102.34	A16S
ATOM	9258	O2P	C	A 442	141.053	80.591	42.330	1.00	102.34	A16S
ATOM	9259	O5*	C	A 442	142.263	79.423	44.143	1.00	114.40	A16S
ATOM	9260	C5*	C	A 442	143.415	78.855	44.788	1.00	114.40	A16S
ATOM	9261	C4*	C	A 442	143.295	79.012	46.281	1.00	114.40	A16S
ATOM	9262	O4*	C	A 442	143.414	80.414	46.633	1.00	114.40	A16S
ATOM	9263	C1*	C	A 442	142.546	80.711	47.712	1.00	114.40	A16S
ATOM	9264	N1	C	A 442	141.586	81.743	47.270	1.00	102.34	A16S
ATOM	9265	C6	C	A 442	141.168	81.802	45.967	1.00	102.34	A16S
ATOM	9266	C2	C	A 442	141.085	82.655	48.215	1.00	102.34	A16S
ATOM	9267	O2	C	A 442	141.500	82.605	49.384	1.00	102.34	A16S
ATOM	9268	N3	C	A 442	140.163	83.564	47.826	1.00	102.34	A16S
ATOM	9269	C4	C	A 442	139.747	83.594	46.557	1.00	102.34	A16S
ATOM	9270	N4	C	A 442	138.820	84.493	46.225	1.00	102.34	A16S
ATOM	9271	C5	C	A 442	140.260	82.700	45.573	1.00	102.34	A16S
ATOM	9272	C2*	C	A 442	141.851	79.409	48.124	1.00	114.40	A16S
ATOM	9273	O2*	C	A 442	142.532	78.815	49.209	1.00	114.40	A16S
ATOM	9274	C3*	C	A 442	141.956	78.586	46.849	1.00	114.40	A16S
ATOM	9275	O3*	C	A 442	141.918	77.193	47.088	1.00	114.40	A16S
ATOM	9276	P	C	A 443	140.508	76.431	47.071	1.00	102.09	A16S
ATOM	9277	O1P	C	A 443	140.817	74.979	47.072	1.00	125.44	A16S
ATOM	9278	O2P	C	A 443	139.656	77.000	45.995	1.00	125.44	A16S
ATOM	9279	O5*	C	A 443	139.857	76.810	48.475	1.00	102.09	A16S
ATOM	9280	C5*	C	A 443	140.418	76.304	49.704	1.00	102.09	A16S
ATOM	9281	C4*	C	A 443	139.627	76.794	50.892	1.00	102.09	A16S
ATOM	9282	O4*	C	A 443	139.786	78.228	51.023	1.00	102.09	A16S
ATOM	9283	C1*	C	A 443	138.604	78.788	51.571	1.00	102.09	A16S
ATOM	9284	N1	C	A 443	138.094	79.834	50.663	1.00	125.44	A16S
ATOM	9285	C6	C	A 443	138.237	79.728	49.307	1.00	125.44	A16S
ATOM	9286	C2	C	A 443	137.448	80.948	51.219	1.00	125.44	A16S
ATOM	9287	O2	C	A 443	137.326	81.022	52.452	1.00	125.44	A16S
ATOM	9288	N3	C	A 443	136.974	81.913	50.401	1.00	125.44	A16S
ATOM	9289	C4	C	A 443	137.125	81.802	49.082	1.00	125.44	A16S
ATOM	9290	N4	C	A 443	136.653	82.787	48.318	1.00	125.44	A16S
ATOM	9291	C5	C	A 443	137.771	80.680	48.489	1.00	125.44	A16S
ATOM	9292	C2*	C	A 443	137.603	77.655	51.796	1.00	102.09	A16S
ATOM	9293	O2*	C	A 443	137.650	77.243	53.147	1.00	102.09	A16S
ATOM	9294	C3*	C	A 443	138.122	76.587	50.842	1.00	102.09	A16S
ATOM	9295	O3*	C	A 443	137.730	75.290	51.260	1.00	102.09	A16S
ATOM	9296	P	C	A 444	136.276	74.740	50.853	1.00	103.63	A16S
ATOM	9297	O1P	C	A 444	136.146	73.385	51.436	1.00	122.70	A16S
ATOM	9298	O2P	C	A 444	136.078	74.932	49.393	1.00	122.70	A16S
ATOM	9299	O5*	C	A 444	135.270	75.715	51.612	1.00	103.63	A16S
ATOM	9300	C5*	C	A 444	135.168	75.704	53.051	1.00	103.63	A16S
ATOM	9301	C4*	C	A 444	134.001	76.547	53.498	1.00	103.63	A16S
ATOM	9302	O4*	C	A 444	134.296	77.957	53.316	1.00	103.63	A16S
ATOM	9303	C1*	C	A 444	133.113	78.647	52.919	1.00	103.63	A16S
ATOM	9304	N1	C	A 444	133.330	79.266	51.588	1.00	122.70	A16S
ATOM	9305	C6	C	A 444	134.398	78.905	50.812	1.00	122.70	A16S
ATOM	9306	C2	C	A 444	132.401	80.226	51.114	1.00	122.70	A16S
ATOM	9307	O2	C	A 444	131.458	80.578	51.842	1.00	122.70	A16S
ATOM	9308	N3	C	A 444	132.564	80.740	49.876	1.00	122.70	A16S
ATOM	9309	C4	C	A 444	133.598	80.355	49.123	1.00	122.70	A16S
ATOM	9310	N4	C	A 444	133.704	80.869	47.900	1.00	122.70	A16S



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ATOM	9311	C5	C	A	444	134.568	79.420	49.588	1.00122.70	A16S
ATOM	9312	C2*	C	A	444	131.972	77.627	52.881	1.00103.63	A16S
ATOM	9313	O2*	C	A	444	131.210	77.689	54.069	1.00103.63	A16S
ATOM	9314	C3*	C	A	444	132.732	76.320	52.702	1.00103.63	A16S
ATOM	9315	O3*	C	A	444	132.006	75.200	53.157	1.00103.63	A16S
ATOM	9316	P	G	A	445	130.942	74.506	52.178	1.00109.97	A16S
ATOM	9317	O1P	G	A	445	130.457	73.279	52.867	1.00112.60	A16S
ATOM	9318	O2P	G	A	445	131.585	74.390	50.843	1.00112.60	A16S
ATOM	9319	O5*	G	A	445	129.749	75.568	52.084	1.00109.97	A16S
ATOM	9320	C5*	G	A	445	129.016	75.956	53.263	1.00109.97	A16S
ATOM	9321	C4*	G	A	445	127.996	77.033	52.945	1.00109.97	A16S
ATOM	9322	O4*	G	A	445	128.651	78.277	52.573	1.00109.97	A16S
ATOM	9323	C1*	G	A	445	127.818	79.004	51.671	1.00109.97	A16S
ATOM	9324	N9	G	A	445	128.542	79.217	50.416	1.00112.60	A16S
ATOM	9325	C4	G	A	445	128.205	80.096	49.402	1.00112.60	A16S
ATOM	9326	N3	G	A	445	127.159	80.961	49.400	1.00112.60	A16S
ATOM	9327	C2	G	A	445	127.086	81.652	48.267	1.00112.60	A16S
ATOM	9328	N2	G	A	445	126.123	82.571	48.092	1.00112.60	A16S
ATOM	9329	N1	G	A	445	127.957	81.493	47.222	1.00112.60	A16S
ATOM	9330	C6	G	A	445	129.033	80.604	47.201	1.00112.60	A16S
ATOM	9331	O6	G	A	445	129.747	80.522	46.193	1.00112.60	A16S
ATOM	9332	C5	G	A	445	129.137	79.878	48.410	1.00112.60	A16S
ATOM	9333	N7	G	A	445	130.059	78.916	48.799	1.00112.60	A16S
ATOM	9334	C8	G	A	445	129.672	78.558	49.992	1.00112.60	A16S
ATOM	9335	C2*	G	A	445	126.548	78.176	51.449	1.00109.97	A16S
ATOM	9336	O2*	G	A	445	125.511	78.636	52.293	1.00109.97	A16S
ATOM	9337	C3*	G	A	445	127.017	76.770	51.812	1.00109.97	A16S
ATOM	9338	O3*	G	A	445	125.927	75.956	52.211	1.00109.97	A16S
ATOM	9339	P	G	A	446	125.089	75.152	51.098	1.00 99.76	A16S
ATOM	9340	O1P	G	A	446	123.983	74.447	51.803	1.00108.74	A16S
ATOM	9341	O2P	G	A	446	126.030	74.374	50.241	1.00108.74	A16S
ATOM	9342	O5*	G	A	446	124.429	76.299	50.213	1.00 99.76	A16S
ATOM	9343	C5*	G	A	446	123.343	77.090	50.731	1.00 99.76	A16S
ATOM	9344	C4*	G	A	446	122.856	78.076	49.690	1.00 99.76	A16S
ATOM	9345	O4*	G	A	446	123.907	79.028	49.388	1.00 99.76	A16S
ATOM	9346	C1*	G	A	446	123.825	79.410	48.028	1.00 99.76	A16S
ATOM	9347	N9	G	A	446	125.075	79.044	47.373	1.00108.74	A16S
ATOM	9348	C4	G	A	446	125.490	79.467	46.140	1.00108.74	A16S
ATOM	9349	N3	G	A	446	124.810	80.292	45.322	1.00108.74	A16S
ATOM	9350	C2	G	A	446	125.468	80.531	44.206	1.00108.74	A16S
ATOM	9351	N2	G	A	446	124.929	81.341	43.287	1.00108.74	A16S
ATOM	9352	N1	G	A	446	126.702	79.995	43.912	1.00108.74	A16S
ATOM	9353	C6	G	A	446	127.421	79.140	44.741	1.00108.74	A16S
ATOM	9354	O6	G	A	446	128.531	78.715	44.386	1.00108.74	A16S
ATOM	9355	C5	G	A	446	126.720	78.877	45.945	1.00108.74	A16S
ATOM	9356	N7	G	A	446	127.068	78.093	47.035	1.00108.74	A16S
ATOM	9357	C8	G	A	446	126.063	78.220	47.856	1.00108.74	A16S
ATOM	9358	C2*	G	A	446	122.623	78.699	47.410	1.00 99.76	A16S
ATOM	9359	O2*	G	A	446	121.504	79.563	47.421	1.00 99.76	A16S
ATOM	9360	C3*	G	A	446	122.459	77.505	48.339	1.00 99.76	A16S
ATOM	9361	O3*	G	A	446	121.125	77.029	48.331	1.00 99.76	A16S
ATOM	9362	P	G	A	447	120.717	75.866	47.308	1.00106.71	A16S
ATOM	9363	O1P	G	A	447	119.235	75.821	47.217	1.00116.80	A16S
ATOM	9364	O2P	G	A	447	121.476	74.635	47.681	1.00116.80	A16S
ATOM	9365	O5*	G	A	447	121.260	76.397	45.908	1.00106.71	A16S
ATOM	9366	C5*	G	A	447	120.649	77.534	45.258	1.00106.71	A16S
ATOM	9367	C4*	G	A	447	121.283	77.774	43.906	1.00106.71	A16S
ATOM	9368	O4*	G	A	447	122.628	78.292	44.056	1.00106.71	A16S
ATOM	9369	C1*	G	A	447	123.452	77.779	43.026	1.00106.71	A16S
ATOM	9370	N9	G	A	447	124.526	77.011	43.649	1.00116.80	A16S
ATOM	9371	C4	G	A	447	125.785	76.773	43.135	1.00116.80	A16S
ATOM	9372	N3	G	A	447	126.257	77.207	41.945	1.00116.80	A16S
ATOM	9373	C2	G	A	447	127.512	76.835	41.745	1.00116.80	A16S
ATOM	9374	N2	G	A	447	128.143	77.188	40.609	1.00116.80	A16S
ATOM	9375	N1	G	A	447	128.245	76.092	42.643	1.00116.80	A16S
ATOM	9376	C6	G	A	447	127.782	75.634	43.871	1.00116.80	A16S
ATOM	9377	O6	G	A	447	128.531	74.978	44.610	1.00116.80	A16S
ATOM	9378	C5	G	A	447	126.435	76.026	44.096	1.00116.80	A16S
ATOM	9379	N7	G	A	447	125.602	75.789	45.179	1.00116.80	A16S
ATOM	9380	C8	G	A	447	124.485	76.388	44.870	1.00116.80	A16S
ATOM	9381	C2*	G	A	447	122.574	76.935	42.101	1.00106.71	A16S
ATOM	9382	O2*	G	A	447	122.144	77.739	41.023	1.00106.71	A16S
ATOM	9383	C3*	G	A	447	121.433	76.543	43.031	1.00106.71	A16S
ATOM	9384	O3*	G	A	447	120.207	76.291	42.365	1.00106.71	A16S
ATOM	9385	P	A	A	448	120.086	75.078	41.314	1.00 97.93	A16S
ATOM	9386	O1P	A	A	448	118.867	74.310	41.675	1.00 88.35	A16S
ATOM	9387	O2P	A	A	448	121.373	74.375	41.155	1.00 88.35	A16S



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ATOM	9388	O5*	A	A	448	119.763	75.847	39.964	1.00	97.93	A16S
ATOM	9389	C5*	A	A	448	118.929	77.002	40.020	1.00	97.93	A16S
ATOM	9390	C4*	A	A	448	119.188	77.910	38.855	1.00	97.93	A16S
ATOM	9391	O4*	A	A	448	120.547	78.406	38.840	1.00	97.93	A16S
ATOM	9392	C1*	A	A	448	120.819	78.897	37.545	1.00	97.93	A16S
ATOM	9393	N9	A	A	448	122.175	78.535	37.138	1.00	88.35	A16S
ATOM	9394	C4	A	A	448	122.834	79.084	36.062	1.00	88.35	A16S
ATOM	9395	N3	A	A	448	122.381	80.038	35.221	1.00	88.35	A16S
ATOM	9396	C2	A	A	448	123.293	80.320	34.291	1.00	88.35	A16S
ATOM	9397	N1	A	A	448	124.508	79.792	34.116	1.00	88.35	A16S
ATOM	9398	C6	A	A	448	124.928	78.835	34.979	1.00	88.35	A16S
ATOM	9399	N6	A	A	448	126.133	78.304	34.808	1.00	88.35	A16S
ATOM	9400	C5	A	A	448	124.060	78.454	36.012	1.00	88.35	A16S
ATOM	9401	N7	A	A	448	124.182	77.532	37.042	1.00	88.35	A16S
ATOM	9402	C8	A	A	448	123.039	77.620	37.681	1.00	88.35	A16S
ATOM	9403	C2*	A	A	448	119.737	78.354	36.610	1.00	97.93	A16S
ATOM	9404	O2*	A	A	448	118.880	79.430	36.307	1.00	97.93	A16S
ATOM	9405	C3*	A	A	448	119.047	77.307	37.481	1.00	97.93	A16S
ATOM	9406	O3*	A	A	448	117.678	77.186	37.164	1.00	97.93	A16S
ATOM	9407	P	C	A	449	117.245	76.448	35.813	1.00	89.13	A16S
ATOM	9408	O1P	C	A	449	115.786	76.169	35.928	1.00	100.46	A16S
ATOM	9409	O2P	C	A	449	118.197	75.324	35.542	1.00	100.46	A16S
ATOM	9410	O5*	C	A	449	117.438	77.578	34.702	1.00	89.13	A16S
ATOM	9411	C5*	C	A	449	116.754	78.835	34.819	1.00	89.13	A16S
ATOM	9412	C4*	C	A	449	117.190	79.781	33.731	1.00	89.13	A16S
ATOM	9413	O4*	C	A	449	118.578	80.163	33.892	1.00	89.13	A16S
ATOM	9414	C1*	C	A	449	119.154	80.400	32.621	1.00	89.13	A16S
ATOM	9415	N1	C	A	449	120.366	79.575	32.483	1.00	100.46	A16S
ATOM	9416	C6	C	A	449	120.567	78.484	33.280	1.00	100.46	A16S
ATOM	9417	C2	C	A	449	121.318	79.927	31.518	1.00	100.46	A16S
ATOM	9418	O2	C	A	449	121.112	80.917	30.796	1.00	100.46	A16S
ATOM	9419	N3	C	A	449	122.436	79.179	31.394	1.00	100.46	A16S
ATOM	9420	C4	C	A	449	122.621	78.119	32.181	1.00	100.46	A16S
ATOM	9421	N4	C	A	449	123.740	77.416	32.029	1.00	100.46	A16S
ATOM	9422	C5	C	A	449	121.668	77.736	33.163	1.00	100.46	A16S
ATOM	9423	C2*	C	A	449	118.089	80.119	31.559	1.00	89.13	A16S
ATOM	9424	O2*	C	A	449	117.540	81.350	31.130	1.00	89.13	A16S
ATOM	9425	C3*	C	A	449	117.107	79.236	32.325	1.00	89.13	A16S
ATOM	9426	O3*	C	A	449	115.769	79.317	31.862	1.00	89.13	A16S
ATOM	9427	P	G	A	450	114.963	77.961	31.552	1.00	83.32	A16S
ATOM	9428	O1P	G	A	450	113.536	78.313	31.257	1.00	87.56	A16S
ATOM	9429	O2P	G	A	450	115.277	76.997	32.650	1.00	87.56	A16S
ATOM	9430	O5*	G	A	450	115.665	77.400	30.229	1.00	83.32	A16S
ATOM	9431	C5*	G	A	450	115.865	78.240	29.068	1.00	83.32	A16S
ATOM	9432	C4*	G	A	450	117.103	77.815	28.295	1.00	83.32	A16S
ATOM	9433	O4*	G	A	450	118.301	78.045	29.080	1.00	83.32	A16S
ATOM	9434	C1*	G	A	450	119.295	77.105	28.715	1.00	83.32	A16S
ATOM	9435	N9	G	A	450	119.701	76.362	29.903	1.00	87.56	A16S
ATOM	9436	C4	G	A	450	120.879	75.673	30.072	1.00	87.56	A16S
ATOM	9437	N3	G	A	450	121.887	75.598	29.181	1.00	87.56	A16S
ATOM	9438	C2	G	A	450	122.879	74.837	29.619	1.00	87.56	A16S
ATOM	9439	N2	G	A	450	123.965	74.650	28.853	1.00	87.56	A16S
ATOM	9440	N1	G	A	450	122.882	74.202	30.836	1.00	87.56	A16S
ATOM	9441	C6	G	A	450	121.857	74.264	31.770	1.00	87.56	A16S
ATOM	9442	O6	G	A	450	121.960	73.647	32.836	1.00	87.56	A16S
ATOM	9443	C5	G	A	450	120.784	75.082	31.312	1.00	87.56	A16S
ATOM	9444	N7	G	A	450	119.585	75.418	31.924	1.00	87.56	A16S
ATOM	9445	C8	G	A	450	118.979	76.181	31.055	1.00	87.56	A16S
ATOM	9446	C2*	G	A	450	118.701	76.184	27.649	1.00	83.32	A16S
ATOM	9447	O2*	G	A	450	119.072	76.623	26.360	1.00	83.32	A16S
ATOM	9448	C3*	G	A	450	117.208	76.361	27.870	1.00	83.32	A16S
ATOM	9449	O3*	G	A	450	116.531	76.120	26.652	1.00	83.32	A16S
ATOM	9450	P	A	A	451	116.167	74.616	26.236	1.00	83.41	A16S
ATOM	9451	O1P	A	A	451	117.276	73.757	26.712	1.00	93.07	A16S
ATOM	9452	O2P	A	A	451	115.779	74.595	24.797	1.00	93.07	A16S
ATOM	9453	O5*	A	A	451	114.877	74.292	27.105	1.00	83.41	A16S
ATOM	9454	C5*	A	A	451	113.559	74.658	26.648	1.00	83.41	A16S
ATOM	9455	C4*	A	A	451	112.558	74.447	27.761	1.00	83.41	A16S
ATOM	9456	O4*	A	A	451	112.666	73.067	28.206	1.00	83.41	A16S
ATOM	9457	C1*	A	A	451	113.031	73.024	29.568	1.00	83.41	A16S
ATOM	9458	N9	A	A	451	114.032	71.980	29.718	1.00	93.07	A16S
ATOM	9459	C4	A	A	451	114.130	71.073	30.737	1.00	93.07	A16S
ATOM	9460	N3	A	A	451	113.322	70.952	31.798	1.00	93.07	A16S
ATOM	9461	C2	A	A	451	113.743	69.975	32.590	1.00	93.07	A16S
ATOM	9462	N1	A	A	451	114.795	69.164	32.447	1.00	93.07	A16S
ATOM	9463	C6	A	A	451	115.579	69.313	31.359	1.00	93.07	A16S
ATOM	9464	N6	A	A	451	116.628	68.501	31.196	1.00	93.07	A16S



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ATOM	9465	C5	A	A 451	115.244	70.314	30.454	1.00	93.07	A16S
ATOM	9466	N7	A	A 451	115.832	70.725	29.272	1.00	93.07	A16S
ATOM	9467	C8	A	A 451	115.075	71.712	28.876	1.00	93.07	A16S
ATOM	9468	C2*	A	A 451	113.586	74.402	29.921	1.00	83.41	A16S
ATOM	9469	O2*	A	A 451	113.440	74.667	31.303	1.00	83.41	A16S
ATOM	9470	C3*	A	A 451	112.777	75.313	28.998	1.00	83.41	A16S
ATOM	9471	O3*	A	A 451	111.505	75.598	29.569	1.00	83.41	A16S
ATOM	9472	P	A	A 452	110.919	77.085	29.519	1.00	104.30	A16S
ATOM	9473	O1P	A	A 452	111.827	77.898	28.686	1.00	91.62	A16S
ATOM	9474	O2P	A	A 452	110.645	77.497	30.925	1.00	91.62	A16S
ATOM	9475	O5*	A	A 452	109.558	76.934	28.702	1.00	104.30	A16S
ATOM	9476	C5*	A	A 452	108.512	76.013	29.112	1.00	104.30	A16S
ATOM	9477	C4*	A	A 452	108.193	75.055	27.978	1.00	104.30	A16S
ATOM	9478	O4*	A	A 452	109.364	74.244	27.741	1.00	104.30	A16S
ATOM	9479	C1*	A	A 452	108.967	73.028	27.156	1.00	104.30	A16S
ATOM	9480	N9	A	A 452	109.801	71.948	27.667	1.00	91.62	A16S
ATOM	9481	C4	A	A 452	110.566	71.153	26.855	1.00	91.62	A16S
ATOM	9482	N3	A	A 452	110.597	71.162	25.510	1.00	91.62	A16S
ATOM	9483	C2	A	A 452	111.495	70.294	25.059	1.00	91.62	A16S
ATOM	9484	N1	A	A 452	112.318	69.490	25.750	1.00	91.62	A16S
ATOM	9485	C6	A	A 452	112.271	69.522	27.101	1.00	91.62	A16S
ATOM	9486	N6	A	A 452	113.126	68.766	27.785	1.00	91.62	A16S
ATOM	9487	C5	A	A 452	111.334	70.376	27.702	1.00	91.62	A16S
ATOM	9488	N7	A	A 452	111.007	70.626	29.028	1.00	91.62	A16S
ATOM	9489	C8	A	A 452	110.077	71.552	28.952	1.00	91.62	A16S
ATOM	9490	C2*	A	A 452	107.445	72.920	27.184	1.00	104.30	A16S
ATOM	9491	O2*	A	A 452	107.041	73.241	25.874	1.00	104.30	A16S
ATOM	9492	C3*	A	A 452	107.044	74.048	28.133	1.00	104.30	A16S
ATOM	9493	O3*	A	A 452	105.813	74.649	27.661	1.00	104.30	A16S
ATOM	9494	P	A	A 453	104.475	73.748	27.450	1.00	80.90	A16S
ATOM	9495	O1P	A	A 453	103.305	74.664	27.510	1.00	101.39	A16S
ATOM	9496	O2P	A	A 453	104.560	72.583	28.403	1.00	101.39	A16S
ATOM	9497	O5*	A	A 453	104.529	73.229	25.936	1.00	80.90	A16S
ATOM	9498	C5*	A	A 453	104.118	71.878	25.584	1.00	80.90	A16S
ATOM	9499	C4*	A	A 453	104.999	71.337	24.477	1.00	80.90	A16S
ATOM	9500	O4*	A	A 453	106.377	71.329	24.911	1.00	80.90	A16S
ATOM	9501	C1*	A	A 453	107.067	70.237	24.346	1.00	80.90	A16S
ATOM	9502	N9	A	A 453	107.629	69.457	25.449	1.00	101.39	A16S
ATOM	9503	C4	A	A 453	108.502	68.403	25.364	1.00	101.39	A16S
ATOM	9504	N3	A	A 453	109.007	67.852	24.251	1.00	101.39	A16S
ATOM	9505	C2	A	A 453	109.832	66.849	24.558	1.00	101.39	A16S
ATOM	9506	N1	A	A 453	110.179	66.369	25.758	1.00	101.39	A16S
ATOM	9507	C6	A	A 453	109.647	66.943	26.856	1.00	101.39	A16S
ATOM	9508	N6	A	A 453	109.980	66.455	28.053	1.00	101.39	A16S
ATOM	9509	C5	A	A 453	108.764	68.023	26.668	1.00	101.39	A16S
ATOM	9510	N7	A	A 453	108.065	68.820	27.559	1.00	101.39	A16S
ATOM	9511	C8	A	A 453	107.406	69.648	26.790	1.00	101.39	A16S
ATOM	9512	C2*	A	A 453	106.087	69.500	23.436	1.00	80.90	A16S
ATOM	9513	O2*	A	A 453	106.261	69.992	22.123	1.00	80.90	A16S
ATOM	9514	C3*	A	A 453	104.744	69.916	24.028	1.00	80.90	A16S
ATOM	9515	O3*	A	A 453	103.704	69.899	23.066	1.00	80.90	A16S
ATOM	9516	P	C	A 454	102.507	68.842	23.228	1.00	87.09	A16S
ATOM	9517	O1P	C	A 454	101.488	69.099	22.171	1.00	89.44	A16S
ATOM	9518	O2P	C	A 454	102.096	68.851	24.662	1.00	89.44	A16S
ATOM	9519	O5*	C	A 454	103.208	67.448	22.895	1.00	87.09	A16S
ATOM	9520	C5*	C	A 454	103.719	67.198	21.579	1.00	87.09	A16S
ATOM	9521	C4*	C	A 454	104.575	65.959	21.561	1.00	87.09	A16S
ATOM	9522	O4*	C	A 454	105.814	66.167	22.278	1.00	87.09	A16S
ATOM	9523	C1*	C	A 454	106.284	64.929	22.759	1.00	87.09	A16S
ATOM	9524	N1	C	A 454	106.520	65.031	24.203	1.00	89.44	A16S
ATOM	9525	C6	C	A 454	105.646	65.706	25.009	1.00	89.44	A16S
ATOM	9526	C2	C	A 454	107.659	64.404	24.756	1.00	89.44	A16S
ATOM	9527	O2	C	A 454	108.452	63.795	24.010	1.00	89.44	A16S
ATOM	9528	N3	C	A 454	107.864	64.476	26.089	1.00	89.44	A16S
ATOM	9529	C4	C	A 454	106.996	65.130	26.865	1.00	89.44	A16S
ATOM	9530	N4	C	A 454	107.240	65.164	28.178	1.00	89.44	A16S
ATOM	9531	C5	C	A 454	105.840	65.778	26.331	1.00	89.44	A16S
ATOM	9532	C2*	C	A 454	105.241	63.866	22.412	1.00	87.09	A16S
ATOM	9533	O2*	C	A 454	105.661	63.211	21.235	1.00	87.09	A16S
ATOM	9534	C3*	C	A 454	103.993	64.706	22.175	1.00	87.09	A16S
ATOM	9535	O3*	C	A 454	103.113	64.064	21.264	1.00	87.09	A16S
ATOM	9536	P	C	A 455	101.593	63.774	21.697	1.00	95.73	A16S
ATOM	9537	O1P	C	A 455	100.983	62.874	20.678	1.00	96.78	A16S
ATOM	9538	O2P	C	A 455	100.956	65.082	22.001	1.00	96.78	A16S
ATOM	9539	O5*	C	A 455	101.730	62.945	23.047	1.00	95.73	A16S
ATOM	9540	C5*	C	A 455	102.240	61.599	23.035	1.00	95.73	A16S
ATOM	9541	C4*	C	A 455	102.389	61.102	24.446	1.00	95.73	A16S



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ATOM	9542	O4*	C	A	455	103.334	61.959	25.131	1.00	95.73	A16S
ATOM	9543	C1*	C	A	455	102.903	62.183	26.462	1.00	95.73	A16S
ATOM	9544	N1	C	A	455	102.662	63.626	26.624	1.00	96.78	A16S
ATOM	9545	C6	C	A	455	102.306	64.402	25.554	1.00	96.78	A16S
ATOM	9546	C2	C	A	455	102.810	64.199	27.895	1.00	96.78	A16S
ATOM	9547	O2	C	A	455	103.110	63.469	28.858	1.00	96.78	A16S
ATOM	9548	N3	C	A	455	102.618	65.533	28.043	1.00	96.78	A16S
ATOM	9549	C4	C	A	455	102.282	66.280	26.987	1.00	96.78	A16S
ATOM	9550	N4	C	A	455	102.107	67.589	27.178	1.00	96.78	A16S
ATOM	9551	C5	C	A	455	102.109	65.717	25.689	1.00	96.78	A16S
ATOM	9552	C2*	C	A	455	101.653	61.336	26.702	1.00	95.73	A16S
ATOM	9553	O2*	C	A	455	102.026	60.111	27.309	1.00	95.73	A16S
ATOM	9554	C3*	C	A	455	101.120	61.182	25.282	1.00	95.73	A16S
ATOM	9555	O3*	C	A	455	100.299	60.035	25.107	1.00	95.73	A16S
ATOM	9556	P	C	A	456	98.705	60.194	25.145	1.00	111.19	A16S
ATOM	9557	O1P	C	A	456	98.140	58.860	24.836	1.00	117.51	A16S
ATOM	9558	O2P	C	A	456	98.319	61.360	24.318	1.00	117.51	A16S
ATOM	9559	O5*	C	A	456	98.410	60.542	26.669	1.00	111.19	A16S
ATOM	9560	C5*	C	A	456	98.668	59.574	27.699	1.00	111.19	A16S
ATOM	9561	C4*	C	A	456	98.190	60.087	29.031	1.00	111.19	A16S
ATOM	9562	O4*	C	A	456	99.069	61.137	29.493	1.00	111.19	A16S
ATOM	9563	C1*	C	A	456	98.312	62.132	30.159	1.00	111.19	A16S
ATOM	9564	N1	C	A	456	98.496	63.400	29.439	1.00	117.51	A16S
ATOM	9565	C6	C	A	456	98.700	63.413	28.083	1.00	117.51	A16S
ATOM	9566	C2	C	A	456	98.459	64.600	30.163	1.00	117.51	A16S
ATOM	9567	O2	C	A	456	98.269	64.560	31.394	1.00	117.51	A16S
ATOM	9568	N3	C	A	456	98.632	65.770	29.504	1.00	117.51	A16S
ATOM	9569	C4	C	A	456	98.835	65.769	28.182	1.00	117.51	A16S
ATOM	9570	N4	C	A	456	99.005	66.944	27.573	1.00	117.51	A16S
ATOM	9571	C5	C	A	456	98.873	64.562	27.423	1.00	117.51	A16S
ATOM	9572	C2*	C	A	456	96.850	61.682	30.188	1.00	111.19	A16S
ATOM	9573	O2*	C	A	456	96.556	61.089	31.436	1.00	111.19	A16S
ATOM	9574	C3*	C	A	456	96.806	60.709	29.015	1.00	111.19	A16S
ATOM	9575	O3*	C	A	456	95.801	59.718	29.159	1.00	111.19	A16S
ATOM	9576	P	C	A	457	94.351	59.966	28.520	1.00	125.51	A16S
ATOM	9577	O1P	C	A	457	93.590	58.694	28.680	1.00	132.67	A16S
ATOM	9578	O2P	C	A	457	94.527	60.551	27.162	1.00	132.67	A16S
ATOM	9579	O5*	C	A	457	93.725	61.087	29.468	1.00	125.51	A16S
ATOM	9580	C5*	C	A	457	93.296	60.769	30.807	1.00	125.51	A16S
ATOM	9581	C4*	C	A	457	92.682	61.981	31.467	1.00	125.51	A16S
ATOM	9582	O4*	C	A	457	93.720	62.963	31.712	1.00	125.51	A16S
ATOM	9583	C1*	C	A	457	93.194	64.268	31.534	1.00	125.51	A16S
ATOM	9584	N1	C	A	457	93.920	64.910	30.421	1.00	132.67	A16S
ATOM	9585	C6	C	A	457	94.519	64.152	29.451	1.00	132.67	A16S
ATOM	9586	C2	C	A	457	93.976	66.321	30.355	1.00	132.67	A16S
ATOM	9587	O2	C	A	457	93.441	66.998	31.254	1.00	132.67	A16S
ATOM	9588	N3	C	A	457	94.611	66.904	29.310	1.00	132.67	A16S
ATOM	9589	C4	C	A	457	95.176	66.147	28.363	1.00	132.67	A16S
ATOM	9590	N4	C	A	457	95.778	66.763	27.346	1.00	132.67	A16S
ATOM	9591	C5	C	A	457	95.147	64.722	28.416	1.00	132.67	A16S
ATOM	9592	C2*	C	A	457	91.698	64.131	31.234	1.00	125.51	A16S
ATOM	9593	O2*	C	A	457	90.937	64.285	32.417	1.00	125.51	A16S
ATOM	9594	C3*	C	A	457	91.625	62.722	30.658	1.00	125.51	A16S
ATOM	9595	O3*	C	A	457	90.321	62.152	30.767	1.00	125.51	A16S
ATOM	9596	P	C	A	458	89.211	62.476	29.642	1.00	109.09	A16S
ATOM	9597	O1P	C	A	458	88.033	61.618	29.920	1.00	141.64	A16S
ATOM	9598	O2P	C	A	458	89.842	62.425	28.299	1.00	141.64	A16S
ATOM	9599	O5*	C	A	458	88.795	63.990	29.939	1.00	109.09	A16S
ATOM	9600	C5*	C	A	458	87.959	64.334	31.076	1.00	109.09	A16S
ATOM	9601	C4*	C	A	458	87.435	65.748	30.939	1.00	109.09	A16S
ATOM	9602	O4*	C	A	458	88.517	66.694	31.134	1.00	109.09	A16S
ATOM	9603	C1*	C	A	458	88.362	67.793	30.245	1.00	109.09	A16S
ATOM	9604	N1	C	A	458	89.557	67.881	29.374	1.00	141.64	A16S
ATOM	9605	C6	C	A	458	90.373	66.799	29.192	1.00	141.64	A16S
ATOM	9606	C2	C	A	458	89.837	69.094	28.716	1.00	141.64	A16S
ATOM	9607	O2	C	A	458	89.102	70.077	28.913	1.00	141.64	A16S
ATOM	9608	N3	C	A	458	90.901	69.158	27.880	1.00	141.64	A16S
ATOM	9609	C4	C	A	458	91.672	68.082	27.695	1.00	141.64	A16S
ATOM	9610	N4	C	A	458	92.687	68.175	26.839	1.00	141.64	A16S
ATOM	9611	C5	C	A	458	91.429	66.856	28.371	1.00	141.64	A16S
ATOM	9612	C2*	C	A	458	87.074	67.582	29.443	1.00	109.09	A16S
ATOM	9613	O2*	C	A	458	86.037	68.378	29.969	1.00	109.09	A16S
ATOM	9614	C3*	C	A	458	86.858	66.076	29.571	1.00	109.09	A16S
ATOM	9615	O3*	C	A	458	85.484	65.716	29.483	1.00	109.09	A16S
ATOM	9616	P	G	A	459	84.876	65.233	28.074	1.00	110.93	A16S
ATOM	9617	O1P	G	A	459	83.402	65.126	28.204	1.00	118.62	A16S
ATOM	9618	O2P	G	A	459	85.668	64.048	27.640	1.00	118.62	A16S



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ATOM	9619	O5*	G	A	459	85.159	66.448	27.085	1.00110.93	A16S
ATOM	9620	C5*	G	A	459	84.596	67.748	27.332	1.00110.93	A16S
ATOM	9621	C4*	G	A	459	85.221	68.770	26.414	1.00110.93	A16S
ATOM	9622	O4*	G	A	459	86.609	68.994	26.779	1.00110.93	A16S
ATOM	9623	C1*	G	A	459	87.372	69.246	25.605	1.00110.93	A16S
ATOM	9624	N9	G	A	459	88.440	68.250	25.498	1.00118.62	A16S
ATOM	9625	C4	G	A	459	89.379	68.157	24.488	1.00118.62	A16S
ATOM	9626	N3	G	A	459	89.463	68.955	23.401	1.00118.62	A16S
ATOM	9627	C2	G	A	459	90.487	68.635	22.630	1.00118.62	A16S
ATOM	9628	N2	G	A	459	90.732	69.341	21.524	1.00118.62	A16S
ATOM	9629	N1	G	A	459	91.351	67.604	22.893	1.00118.62	A16S
ATOM	9630	C6	G	A	459	91.282	66.766	23.997	1.00118.62	A16S
ATOM	9631	O6	G	A	459	92.116	65.865	24.137	1.00118.62	A16S
ATOM	9632	C5	G	A	459	90.193	67.105	24.842	1.00118.62	A16S
ATOM	9633	N7	G	A	459	89.767	66.533	26.031	1.00118.62	A16S
ATOM	9634	C8	G	A	459	88.725	67.238	26.379	1.00118.62	A16S
ATOM	9635	C2*	G	A	459	86.417	69.222	24.411	1.00110.93	A16S
ATOM	9636	O2*	G	A	459	86.013	70.542	24.101	1.00110.93	A16S
ATOM	9637	C3*	G	A	459	85.275	68.373	24.948	1.00110.93	A16S
ATOM	9638	O3*	G	A	459	84.058	68.631	24.275	1.00110.93	A16S
ATOM	9639	P	A	A	460	83.140	67.401	23.817	1.00113.28	A16S
ATOM	9640	O1P	A	A	460	81.916	67.969	23.203	1.00136.78	A16S
ATOM	9641	O2P	A	A	460	83.027	66.468	24.976	1.00136.78	A16S
ATOM	9642	O5*	A	A	460	83.959	66.678	22.660	1.00113.28	A16S
ATOM	9643	C5*	A	A	460	85.183	65.968	22.931	1.00113.28	A16S
ATOM	9644	C4*	A	A	460	85.568	65.148	21.727	1.00113.28	A16S
ATOM	9645	O4*	A	A	460	85.023	65.801	20.567	1.00113.28	A16S
ATOM	9646	C1*	A	A	460	85.987	65.848	19.546	1.00113.28	A16S
ATOM	9647	N9	A	A	460	86.143	67.259	19.169	1.00136.78	A16S
ATOM	9648	C4	A	A	460	86.423	67.772	17.920	1.00136.78	A16S
ATOM	9649	N3	A	A	460	86.665	67.091	16.784	1.00136.78	A16S
ATOM	9650	C2	A	A	460	86.891	67.927	15.766	1.00136.78	A16S
ATOM	9651	N1	A	A	460	86.903	69.265	15.754	1.00136.78	A16S
ATOM	9652	C6	A	A	460	86.654	69.921	16.908	1.00136.78	A16S
ATOM	9653	N6	A	A	460	86.666	71.255	16.894	1.00136.78	A16S
ATOM	9654	C5	A	A	460	86.395	69.148	18.063	1.00136.78	A16S
ATOM	9655	N7	A	A	460	86.112	69.499	19.376	1.00136.78	A16S
ATOM	9656	C8	A	A	460	85.985	68.350	19.991	1.00136.78	A16S
ATOM	9657	C2*	A	A	460	87.221	65.042	19.997	1.00113.28	A16S
ATOM	9658	O2*	A	A	460	87.213	63.735	19.449	1.00113.28	A16S
ATOM	9659	C3*	A	A	460	87.068	64.998	21.515	1.00113.28	A16S
ATOM	9660	O3*	A	A	460	87.456	63.694	21.979	1.00113.28	A16S
ATOM	9661	P	C	A	461	88.819	63.491	22.811	1.00138.89	A16S
ATOM	9662	O1P	C	A	461	88.684	62.189	23.522	1.00160.16	A16S
ATOM	9663	O2P	C	A	461	89.090	64.718	23.593	1.00160.16	A16S
ATOM	9664	O5*	C	A	461	89.955	63.354	21.697	1.00138.89	A16S
ATOM	9665	C5*	C	A	461	90.433	64.498	20.934	1.00138.89	A16S
ATOM	9666	C4*	C	A	461	91.931	64.384	20.708	1.00138.89	A16S
ATOM	9667	O4*	C	A	461	92.265	62.984	20.546	1.00138.89	A16S
ATOM	9668	C1*	C	A	461	92.919	62.783	19.313	1.00138.89	A16S
ATOM	9669	N1	C	A	461	92.480	61.470	18.785	1.00160.16	A16S
ATOM	9670	C6	C	A	461	91.282	61.333	18.133	1.00160.16	A16S
ATOM	9671	C2	C	A	461	93.314	60.342	18.978	1.00160.16	A16S
ATOM	9672	O2	C	A	461	94.402	60.479	19.571	1.00160.16	A16S
ATOM	9673	N3	C	A	461	92.908	59.134	18.515	1.00160.16	A16S
ATOM	9674	C4	C	A	461	91.732	59.017	17.886	1.00160.16	A16S
ATOM	9675	N4	C	A	461	91.372	57.804	17.453	1.00160.16	A16S
ATOM	9676	C5	C	A	461	90.873	60.138	17.674	1.00160.16	A16S
ATOM	9677	C2*	C	A	461	92.612	64.013	18.449	1.00138.89	A16S
ATOM	9678	O2*	C	A	461	93.643	64.236	17.504	1.00138.89	A16S
ATOM	9679	C3*	C	A	461	92.517	65.120	19.501	1.00138.89	A16S
ATOM	9680	O3*	C	A	461	93.854	65.548	19.800	1.00138.89	A16S
ATOM	9681	P	G	A	462	94.225	67.119	19.861	1.00109.52	A16S
ATOM	9682	O1P	G	A	462	95.657	67.228	19.460	1.00119.57	A16S
ATOM	9683	O2P	G	A	462	93.810	67.615	21.199	1.00119.57	A16S
ATOM	9684	O5*	G	A	462	93.308	67.815	18.748	1.00109.52	A16S
ATOM	9685	C5*	G	A	462	93.750	67.940	17.372	1.00109.52	A16S
ATOM	9686	C4*	G	A	462	93.129	69.163	16.699	1.00109.52	A16S
ATOM	9687	O4*	G	A	462	91.692	68.989	16.559	1.00109.52	A16S
ATOM	9688	C1*	G	A	462	91.039	70.250	16.668	1.00109.52	A16S
ATOM	9689	N9	G	A	462	90.134	70.196	17.819	1.00119.57	A16S
ATOM	9690	C4	G	A	462	89.402	71.241	18.345	1.00119.57	A16S
ATOM	9691	N3	G	A	462	89.354	72.503	17.862	1.00119.57	A16S
ATOM	9692	C2	G	A	462	88.573	73.284	18.596	1.00119.57	A16S
ATOM	9693	N2	G	A	462	88.411	74.571	18.262	1.00119.57	A16S
ATOM	9694	N1	G	A	462	87.896	72.860	19.713	1.00119.57	A16S
ATOM	9695	C6	G	A	462	87.929	71.567	20.225	1.00119.57	A16S



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ATOM	9696	O6	G	A	462	87.279	71.289	21.239	1.00119.57	A16S
ATOM	9697	C5	G	A	462	88.760	70.718	19.448	1.00119.57	A16S
ATOM	9698	N7	G	A	462	89.055	69.369	19.598	1.00119.57	A16S
ATOM	9699	C8	G	A	462	89.866	69.102	18.611	1.00119.57	A16S
ATOM	9700	C2*	G	A	462	92.123	71.326	16.821	1.00109.52	A16S
ATOM	9701	O2*	G	A	462	92.407	71.934	15.574	1.00109.52	A16S
ATOM	9702	C3*	G	A	462	93.292	70.519	17.381	1.00109.52	A16S
ATOM	9703	O3*	G	A	462	94.533	71.139	17.072	1.00109.52	A16S
ATOM	9704	P	A	A	463	95.167	72.202	18.095	1.00 90.98	A16S
ATOM	9705	O1P	A	A	463	96.283	72.863	17.380	1.00110.87	A16S
ATOM	9706	O2P	A	A	463	95.420	71.545	19.410	1.00110.87	A16S
ATOM	9707	O5*	A	A	463	94.013	73.282	18.283	1.00 90.98	A16S
ATOM	9708	C5*	A	A	463	93.887	74.405	17.393	1.00 90.98	A16S
ATOM	9709	C4*	A	A	463	93.034	75.480	18.030	1.00 90.98	A16S
ATOM	9710	O4*	A	A	463	91.689	74.973	18.227	1.00 90.98	A16S
ATOM	9711	C1*	A	A	463	91.138	75.523	19.415	1.00 90.98	A16S
ATOM	9712	N9	A	A	463	90.757	74.435	20.318	1.00110.87	A16S
ATOM	9713	C4	A	A	463	89.866	74.545	21.355	1.00110.87	A16S
ATOM	9714	N3	A	A	463	89.166	75.633	21.714	1.00110.87	A16S
ATOM	9715	C2	A	A	463	88.414	75.375	22.781	1.00110.87	A16S
ATOM	9716	N1	A	A	463	88.292	74.242	23.476	1.00110.87	A16S
ATOM	9717	C6	A	A	463	89.010	73.167	23.084	1.00110.87	A16S
ATOM	9718	N6	A	A	463	88.892	72.034	23.776	1.00110.87	A16S
ATOM	9719	C5	A	A	463	89.844	73.309	21.965	1.00110.87	A16S
ATOM	9720	N7	A	A	463	90.689	72.424	21.313	1.00110.87	A16S
ATOM	9721	C8	A	A	463	91.203	73.137	20.344	1.00110.87	A16S
ATOM	9722	C2*	A	A	463	92.182	76.449	20.042	1.00 90.98	A16S
ATOM	9723	O2*	A	A	463	91.880	77.797	19.744	1.00 90.98	A16S
ATOM	9724	C3*	A	A	463	93.474	75.937	19.414	1.00 90.98	A16S
ATOM	9725	O3*	A	A	463	94.466	76.947	19.356	1.00 90.98	A16S
ATOM	9726	P	G	A	474	95.581	77.024	20.508	1.00 89.30	A16S
ATOM	9727	O1P	G	A	474	96.415	78.231	20.253	1.00135.37	A16S
ATOM	9728	O2P	G	A	474	96.229	75.691	20.578	1.00135.37	A16S
ATOM	9729	O5*	G	A	474	94.740	77.232	21.851	1.00 89.30	A16S
ATOM	9730	C5*	G	A	474	93.878	78.383	22.039	1.00 89.30	A16S
ATOM	9731	C4*	G	A	474	93.002	78.197	23.264	1.00 89.30	A16S
ATOM	9732	O4*	G	A	474	91.990	77.189	23.008	1.00 89.30	A16S
ATOM	9733	C1*	G	A	474	91.750	76.437	24.193	1.00 89.30	A16S
ATOM	9734	N9	G	A	474	92.068	75.035	23.928	1.00135.37	A16S
ATOM	9735	C4	G	A	474	91.739	73.956	24.715	1.00135.37	A16S
ATOM	9736	N3	G	A	474	91.033	73.995	25.865	1.00135.37	A16S
ATOM	9737	C2	G	A	474	90.899	72.794	26.402	1.00135.37	A16S
ATOM	9738	N2	G	A	474	90.229	72.646	27.550	1.00135.37	A16S
ATOM	9739	N1	G	A	474	91.414	71.648	25.854	1.00135.37	A16S
ATOM	9740	C6	G	A	474	92.143	71.584	24.671	1.00135.37	A16S
ATOM	9741	O6	G	A	474	92.567	70.495	24.264	1.00135.37	A16S
ATOM	9742	C5	G	A	474	92.295	72.863	24.086	1.00135.37	A16S
ATOM	9743	N7	G	A	474	92.943	73.242	22.921	1.00135.37	A16S
ATOM	9744	C8	G	A	474	92.779	74.534	22.865	1.00135.37	A16S
ATOM	9745	C2*	G	A	474	92.634	77.007	25.307	1.00 89.30	A16S
ATOM	9746	O2*	G	A	474	91.895	77.850	26.165	1.00 89.30	A16S
ATOM	9747	C3*	G	A	474	93.725	77.716	24.512	1.00 89.30	A16S
ATOM	9748	O3*	G	A	474	94.285	78.790	25.240	1.00 89.30	A16S
ATOM	9749	P	G	A	475	95.439	78.498	26.316	1.00121.00	A16S
ATOM	9750	O1P	G	A	475	95.848	79.814	26.874	1.00161.53	A16S
ATOM	9751	O2P	G	A	475	96.449	77.635	25.653	1.00161.53	A16S
ATOM	9752	O5*	G	A	475	94.720	77.648	27.464	1.00121.00	A16S
ATOM	9753	C5*	G	A	475	93.911	78.286	28.476	1.00121.00	A16S
ATOM	9754	C4*	G	A	475	93.422	77.269	29.485	1.00121.00	A16S
ATOM	9755	O4*	G	A	475	92.627	76.265	28.807	1.00121.00	A16S
ATOM	9756	C1*	G	A	475	92.803	75.005	29.441	1.00121.00	A16S
ATOM	9757	N9	G	A	475	93.317	74.054	28.461	1.00161.53	A16S
ATOM	9758	C4	G	A	475	93.460	72.697	28.631	1.00161.53	A16S
ATOM	9759	N3	G	A	475	93.133	71.994	29.737	1.00161.53	A16S
ATOM	9760	C2	G	A	475	93.396	70.705	29.598	1.00161.53	A16S
ATOM	9761	N2	G	A	475	93.128	69.852	30.599	1.00161.53	A16S
ATOM	9762	N1	G	A	475	93.941	70.154	28.466	1.00161.53	A16S
ATOM	9763	C6	G	A	475	94.286	70.862	27.318	1.00161.53	A16S
ATOM	9764	O6	G	A	475	94.778	70.270	26.349	1.00161.53	A16S
ATOM	9765	C5	G	A	475	94.004	72.238	27.452	1.00161.53	A16S
ATOM	9766	N7	G	A	475	94.188	73.279	26.554	1.00161.53	A16S
ATOM	9767	C8	G	A	475	93.767	74.335	27.194	1.00161.53	A16S
ATOM	9768	C2*	G	A	475	93.761	75.193	30.618	1.00121.00	A16S
ATOM	9769	O2*	G	A	475	93.025	75.288	31.821	1.00121.00	A16S
ATOM	9770	C3*	G	A	475	94.489	76.478	30.231	1.00121.00	A16S
ATOM	9771	O3*	G	A	475	94.955	77.174	31.383	1.00121.00	A16S
ATOM	9772	P	G	A	476	96.385	76.798	32.024	1.00134.50	A16S



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ATOM	9773	O1P	G	A	476	96.667	77.787	33.099	1.00158.69	A16S
ATOM	9774	O2P	G	A	476	97.354	76.630	30.912	1.00158.69	A16S
ATOM	9775	O5*	G	A	476	96.160	75.376	32.706	1.00134.50	A16S
ATOM	9776	C5*	G	A	476	95.573	75.267	34.010	1.00134.50	A16S
ATOM	9777	C4*	G	A	476	95.634	73.839	34.491	1.00134.50	A16S
ATOM	9778	O4*	G	A	476	94.933	72.990	33.547	1.00134.50	A16S
ATOM	9779	C1*	G	A	476	95.545	71.714	33.512	1.00134.50	A16S
ATOM	9780	N9	G	A	476	95.911	71.401	32.135	1.00158.69	A16S
ATOM	9781	C4	G	A	476	96.338	70.180	31.669	1.00158.69	A16S
ATOM	9782	N3	G	A	476	96.491	69.060	32.405	1.00158.69	A16S
ATOM	9783	C2	G	A	476	96.923	68.045	31.677	1.00158.69	A16S
ATOM	9784	N2	G	A	476	97.138	66.854	32.250	1.00158.69	A16S
ATOM	9785	N1	G	A	476	97.178	68.123	30.336	1.00158.69	A16S
ATOM	9786	C6	G	A	476	97.025	69.264	29.558	1.00158.69	A16S
ATOM	9787	O6	G	A	476	97.281	69.222	28.352	1.00158.69	A16S
ATOM	9788	C5	G	A	476	96.568	70.362	30.326	1.00158.69	A16S
ATOM	9789	N7	G	A	476	96.289	71.670	29.951	1.00158.69	A16S
ATOM	9790	C8	G	A	476	95.904	72.248	31.054	1.00158.69	A16S
ATOM	9791	C2*	G	A	476	96.739	71.725	34.471	1.00134.50	A16S
ATOM	9792	O2*	G	A	476	96.365	71.101	35.681	1.00134.50	A16S
ATOM	9793	C3*	G	A	476	97.021	73.219	34.620	1.00134.50	A16S
ATOM	9794	O3*	G	A	476	97.608	73.531	35.892	1.00134.50	A16S
ATOM	9795	P	G	A	477	99.189	73.296	36.141	1.00136.22	A16S
ATOM	9796	O1P	G	A	477	99.500	73.749	37.526	1.00153.34	A16S
ATOM	9797	O2P	G	A	477	99.956	73.859	34.996	1.00153.34	A16S
ATOM	9798	O5*	G	A	477	99.349	71.717	36.120	1.00136.22	A16S
ATOM	9799	C5*	G	A	477	98.776	70.920	37.155	1.00136.22	A16S
ATOM	9800	C4*	G	A	477	99.082	69.478	36.902	1.00136.22	A16S
ATOM	9801	O4*	G	A	477	98.409	69.046	35.695	1.00136.22	A16S
ATOM	9802	C1*	G	A	477	99.239	68.147	34.981	1.00136.22	A16S
ATOM	9803	N9	G	A	477	99.524	68.734	33.676	1.00153.34	A16S
ATOM	9804	C4	G	A	477	100.057	68.087	32.591	1.00153.34	A16S
ATOM	9805	N3	G	A	477	100.404	66.786	32.540	1.00153.34	A16S
ATOM	9806	C2	G	A	477	100.898	66.456	31.363	1.00153.34	A16S
ATOM	9807	N2	G	A	477	101.301	65.201	31.137	1.00153.34	A16S
ATOM	9808	N1	G	A	477	101.036	67.332	30.318	1.00153.34	A16S
ATOM	9809	C6	G	A	477	100.683	68.675	30.348	1.00153.34	A16S
ATOM	9810	O6	G	A	477	100.851	69.379	29.348	1.00153.34	A16S
ATOM	9811	C5	G	A	477	100.155	69.043	31.605	1.00153.34	A16S
ATOM	9812	N7	G	A	477	99.688	70.268	32.058	1.00153.34	A16S
ATOM	9813	C8	G	A	477	99.326	70.038	33.289	1.00153.34	A16S
ATOM	9814	C2*	G	A	477	100.507	67.932	35.808	1.00136.22	A16S
ATOM	9815	O2*	G	A	477	100.370	66.780	36.613	1.00136.22	A16S
ATOM	9816	C3*	G	A	477	100.548	69.208	36.633	1.00136.22	A16S
ATOM	9817	O3*	G	A	477	101.282	69.078	37.834	1.00136.22	A16S
ATOM	9818	P	A	A	478	102.860	69.354	37.820	1.00138.43	A16S
ATOM	9819	O1P	A	A	478	103.297	69.493	39.232	1.00154.14	A16S
ATOM	9820	O2P	A	A	478	103.121	70.461	36.861	1.00154.14	A16S
ATOM	9821	O5*	A	A	478	103.456	67.996	37.233	1.00138.43	A16S
ATOM	9822	C5*	A	A	478	103.145	66.731	37.860	1.00138.43	A16S
ATOM	9823	C4*	A	A	478	103.594	65.577	36.991	1.00138.43	A16S
ATOM	9824	O4*	A	A	478	102.814	65.544	35.769	1.00138.43	A16S
ATOM	9825	C1*	A	A	478	103.634	65.136	34.685	1.00138.43	A16S
ATOM	9826	N9	A	A	478	103.688	66.239	33.722	1.00154.14	A16S
ATOM	9827	C4	A	A	478	104.200	66.193	32.446	1.00154.14	A16S
ATOM	9828	N3	A	A	478	104.754	65.138	31.825	1.00154.14	A16S
ATOM	9829	C2	A	A	478	105.137	65.466	30.595	1.00154.14	A16S
ATOM	9830	N1	A	A	478	105.040	66.640	29.962	1.00154.14	A16S
ATOM	9831	C6	A	A	478	104.480	67.682	30.616	1.00154.14	A16S
ATOM	9832	N6	A	A	478	104.384	68.858	29.989	1.00154.14	A16S
ATOM	9833	C5	A	A	478	104.031	67.464	31.927	1.00154.14	A16S
ATOM	9834	N7	A	A	478	103.424	68.299	32.856	1.00154.14	A16S
ATOM	9835	C8	A	A	478	103.243	67.529	33.899	1.00154.14	A16S
ATOM	9836	C2*	A	A	478	105.009	64.784	35.253	1.00138.43	A16S
ATOM	9837	O2*	A	A	478	105.086	63.396	35.515	1.00138.43	A16S
ATOM	9838	C3*	A	A	478	105.036	65.629	36.519	1.00138.43	A16S
ATOM	9839	O3*	A	A	478	105.936	65.132	37.491	1.00138.43	A16S
ATOM	9840	P	C	A	479	107.441	65.683	37.514	1.00119.90	A16S
ATOM	9841	O1P	C	A	479	108.050	65.297	38.819	1.00102.13	A16S
ATOM	9842	O2P	C	A	479	107.403	67.120	37.113	1.00102.13	A16S
ATOM	9843	O5*	C	A	479	108.151	64.844	36.362	1.00119.90	A16S
ATOM	9844	C5*	C	A	479	108.158	63.402	36.405	1.00119.90	A16S
ATOM	9845	C4*	C	A	479	109.012	62.849	35.290	1.00119.90	A16S
ATOM	9846	O4*	C	A	479	108.302	62.928	34.025	1.00119.90	A16S
ATOM	9847	C1*	C	A	479	109.204	63.279	32.990	1.00119.90	A16S
ATOM	9848	N1	C	A	479	108.827	64.617	32.488	1.00102.13	A16S
ATOM	9849	C6	C	A	479	108.307	65.560	33.331	1.00102.13	A16S



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ATOM	9850	C2	C	A	479	109.019	64.915	31.135	1.00102.13	A16S
ATOM	9851	O2	C	A	479	109.504	64.049	30.384	1.00102.13	A16S
ATOM	9852	N3	C	A	479	108.679	66.142	30.677	1.00102.13	A16S
ATOM	9853	C4	C	A	479	108.175	67.048	31.511	1.00102.13	A16S
ATOM	9854	N4	C	A	479	107.860	68.239	31.014	1.00102.13	A16S
ATOM	9855	C5	C	A	479	107.974	66.773	32.888	1.00102.13	A16S
ATOM	9856	C2*	C	A	479	110.607	63.287	33.596	1.00119.90	A16S
ATOM	9857	O2*	C	A	479	111.206	62.020	33.422	1.00119.90	A16S
ATOM	9858	C3*	C	A	479	110.301	63.608	35.050	1.00119.90	A16S
ATOM	9859	O3*	C	A	479	111.328	63.270	35.962	1.00119.90	A16S
ATOM	9860	P	U	A	480	112.367	64.408	36.414	1.00107.86	A16S
ATOM	9861	O1P	U	A	480	113.205	63.892	37.534	1.00 98.54	A16S
ATOM	9862	O2P	U	A	480	111.602	65.682	36.583	1.00 98.54	A16S
ATOM	9863	O5*	U	A	480	113.306	64.562	35.135	1.00107.86	A16S
ATOM	9864	C5*	U	A	480	113.902	63.399	34.510	1.00107.86	A16S
ATOM	9865	C4*	U	A	480	114.397	63.736	33.118	1.00107.86	A16S
ATOM	9866	O4*	U	A	480	113.270	64.059	32.268	1.00107.86	A16S
ATOM	9867	C1*	U	A	480	113.635	65.089	31.371	1.00107.86	A16S
ATOM	9868	N1	U	A	480	112.766	66.250	31.614	1.00 98.54	A16S
ATOM	9869	C6	U	A	480	112.206	66.502	32.850	1.00 98.54	A16S
ATOM	9870	C2	U	A	480	112.529	67.086	30.547	1.00 98.54	A16S
ATOM	9871	O2	U	A	480	113.009	66.891	29.445	1.00 98.54	A16S
ATOM	9872	N3	U	A	480	111.712	68.158	30.816	1.00 98.54	A16S
ATOM	9873	C4	U	A	480	111.117	68.467	32.021	1.00 98.54	A16S
ATOM	9874	O4	U	A	480	110.435	69.489	32.113	1.00 98.54	A16S
ATOM	9875	C5	U	A	480	111.409	67.550	33.082	1.00 98.54	A16S
ATOM	9876	C2*	U	A	480	115.113	65.409	31.591	1.00107.86	A16S
ATOM	9877	O2*	U	A	480	115.893	64.669	30.680	1.00107.86	A16S
ATOM	9878	C3*	U	A	480	115.314	64.944	33.022	1.00107.86	A16S
ATOM	9879	O3*	U	A	480	116.660	64.595	33.263	1.00107.86	A16S
ATOM	9880	P	G	A	481	117.507	65.438	34.326	1.00113.52	A16S
ATOM	9881	O1P	G	A	481	117.201	64.937	35.685	1.00114.30	A16S
ATOM	9882	O2P	G	A	481	117.299	66.868	34.014	1.00114.30	A16S
ATOM	9883	O5*	G	A	481	119.008	65.030	34.013	1.00113.52	A16S
ATOM	9884	C5*	G	A	481	120.069	65.975	34.158	1.00113.52	A16S
ATOM	9885	C4*	G	A	481	120.343	66.613	32.833	1.00113.52	A16S
ATOM	9886	O4*	G	A	481	119.257	67.496	32.478	1.00113.52	A16S
ATOM	9887	C1*	G	A	481	119.750	68.506	31.628	1.00113.52	A16S
ATOM	9888	N9	G	A	481	119.281	69.813	32.067	1.00114.30	A16S
ATOM	9889	C4	G	A	481	118.900	70.838	31.239	1.00114.30	A16S
ATOM	9890	N3	G	A	481	118.971	70.833	29.897	1.00114.30	A16S
ATOM	9891	C2	G	A	481	118.501	71.944	29.375	1.00114.30	A16S
ATOM	9892	N2	G	A	481	118.536	72.116	28.055	1.00114.30	A16S
ATOM	9893	N1	G	A	481	117.967	72.968	30.109	1.00114.30	A16S
ATOM	9894	C6	G	A	481	117.865	72.988	31.496	1.00114.30	A16S
ATOM	9895	O6	G	A	481	117.321	73.950	32.067	1.00114.30	A16S
ATOM	9896	C5	G	A	481	118.414	71.817	32.070	1.00114.30	A16S
ATOM	9897	N7	G	A	481	118.550	71.445	33.400	1.00114.30	A16S
ATOM	9898	C8	G	A	481	119.081	70.253	33.349	1.00114.30	A16S
ATOM	9899	C2*	G	A	481	121.257	68.347	31.531	1.00113.52	A16S
ATOM	9900	O2*	G	A	481	121.431	67.596	30.351	1.00113.52	A16S
ATOM	9901	C3*	G	A	481	121.573	67.486	32.745	1.00113.52	A16S
ATOM	9902	O3*	G	A	481	122.666	66.658	32.411	1.00113.52	A16S
ATOM	9903	P	A	A	482	123.490	65.927	33.562	1.00 78.59	A16S
ATOM	9904	O1P	A	A	482	122.986	64.531	33.616	1.00 92.83	A16S
ATOM	9905	O2P	A	A	482	123.458	66.776	34.782	1.00 92.83	A16S
ATOM	9906	O5*	A	A	482	124.979	65.922	32.998	1.00 78.59	A16S
ATOM	9907	C5*	A	A	482	125.518	64.771	32.323	1.00 78.59	A16S
ATOM	9908	C4*	A	A	482	126.401	65.202	31.178	1.00 78.59	A16S
ATOM	9909	O4*	A	A	482	125.603	65.530	30.021	1.00 78.59	A16S
ATOM	9910	C1*	A	A	482	126.229	66.573	29.302	1.00 78.59	A16S
ATOM	9911	N9	A	A	482	125.276	67.669	29.193	1.00 92.83	A16S
ATOM	9912	C4	A	A	482	125.464	68.898	28.610	1.00 92.83	A16S
ATOM	9913	N3	A	A	482	126.571	69.357	28.002	1.00 92.83	A16S
ATOM	9914	C2	A	A	482	126.383	70.606	27.574	1.00 92.83	A16S
ATOM	9915	N1	A	A	482	125.296	71.386	27.682	1.00 92.83	A16S
ATOM	9916	C6	A	A	482	124.207	70.887	28.304	1.00 92.83	A16S
ATOM	9917	N6	A	A	482	123.126	71.658	28.433	1.00 92.83	A16S
ATOM	9918	C5	A	A	482	124.278	69.580	28.788	1.00 92.83	A16S
ATOM	9919	N7	A	A	482	123.361	68.792	29.448	1.00 92.83	A16S
ATOM	9920	C8	A	A	482	124.001	67.674	29.665	1.00 92.83	A16S
ATOM	9921	C2*	A	A	482	127.517	66.962	30.037	1.00 78.59	A16S
ATOM	9922	O2*	A	A	482	128.640	66.355	29.427	1.00 78.59	A16S
ATOM	9923	C3*	A	A	482	127.255	66.428	31.435	1.00 78.59	A16S
ATOM	9924	O3*	A	A	482	128.462	66.074	32.078	1.00 78.59	A16S
ATOM	9925	P	C	A	483	129.007	66.980	33.283	1.00 85.19	A16S
ATOM	9926	O1P	C	A	483	130.349	66.466	33.680	1.00 90.11	A16S



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ATOM	9927	O2P	C	A	483	127.914	67.060	34.302	1.00	90.11	A16S
ATOM	9928	O5*	C	A	483	129.201	68.414	32.608	1.00	85.19	A16S
ATOM	9929	C5*	C	A	483	130.040	68.581	31.442	1.00	85.19	A16S
ATOM	9930	C4*	C	A	483	129.832	69.950	30.832	1.00	85.19	A16S
ATOM	9931	O4*	C	A	483	128.503	70.050	30.266	1.00	85.19	A16S
ATOM	9932	C1*	C	A	483	127.995	71.358	30.471	1.00	85.19	A16S
ATOM	9933	N1	C	A	483	126.757	71.258	31.265	1.00	90.11	A16S
ATOM	9934	C6	C	A	483	126.524	70.178	32.075	1.00	90.11	A16S
ATOM	9935	C2	C	A	483	125.810	72.283	31.165	1.00	90.11	A16S
ATOM	9936	O2	C	A	483	126.066	73.273	30.462	1.00	90.11	A16S
ATOM	9937	N3	C	A	483	124.643	72.171	31.842	1.00	90.11	A16S
ATOM	9938	C4	C	A	483	124.415	71.099	32.607	1.00	90.11	A16S
ATOM	9939	N4	C	A	483	123.235	71.015	33.234	1.00	90.11	A16S
ATOM	9940	C5	C	A	483	125.381	70.060	32.757	1.00	90.11	A16S
ATOM	9941	C2*	C	A	483	129.087	72.189	31.140	1.00	85.19	A16S
ATOM	9942	O2*	C	A	483	129.802	72.883	30.143	1.00	85.19	A16S
ATOM	9943	C3*	C	A	483	129.930	71.111	31.803	1.00	85.19	A16S
ATOM	9944	O3*	C	A	483	131.270	71.513	31.925	1.00	85.19	A16S
ATOM	9945	P	G	A	484	131.734	72.341	33.213	1.00	95.61	A16S
ATOM	9946	O1P	G	A	484	131.289	73.750	33.020	1.00	96.57	A16S
ATOM	9947	O2P	G	A	484	133.178	72.048	33.439	1.00	96.57	A16S
ATOM	9948	O5*	G	A	484	130.894	71.694	34.401	1.00	95.61	A16S
ATOM	9949	C5*	G	A	484	131.449	71.584	35.725	1.00	95.61	A16S
ATOM	9950	C4*	G	A	484	130.450	70.938	36.650	1.00	95.61	A16S
ATOM	9951	O4*	G	A	484	129.353	71.867	36.878	1.00	95.61	A16S
ATOM	9952	C1*	G	A	484	128.119	71.297	36.473	1.00	95.61	A16S
ATOM	9953	N9	G	A	484	127.422	72.309	35.670	1.00	96.57	A16S
ATOM	9954	C4	G	A	484	126.087	72.685	35.745	1.00	96.57	A16S
ATOM	9955	N3	G	A	484	125.158	72.181	36.587	1.00	96.57	A16S
ATOM	9956	C2	G	A	484	123.973	72.760	36.425	1.00	96.57	A16S
ATOM	9957	N2	G	A	484	122.938	72.393	37.200	1.00	96.57	A16S
ATOM	9958	N1	G	A	484	123.719	73.742	35.501	1.00	96.57	A16S
ATOM	9959	C6	G	A	484	124.653	74.272	34.626	1.00	96.57	A16S
ATOM	9960	O6	G	A	484	124.316	75.153	33.839	1.00	96.57	A16S
ATOM	9961	C5	G	A	484	125.931	73.674	34.794	1.00	96.57	A16S
ATOM	9962	N7	G	A	484	127.127	73.916	34.133	1.00	96.57	A16S
ATOM	9963	C8	G	A	484	127.978	73.088	34.681	1.00	96.57	A16S
ATOM	9964	C2*	G	A	484	128.417	70.016	35.683	1.00	95.61	A16S
ATOM	9965	O2*	G	A	484	127.461	68.998	35.923	1.00	95.61	A16S
ATOM	9966	C3*	G	A	484	129.836	69.645	36.130	1.00	95.61	A16S
ATOM	9967	O3*	G	A	484	130.130	68.438	36.871	1.00	95.61	A16S
ATOM	9968	P	G	A	485	129.741	68.299	38.430	1.00	103.34	A16S
ATOM	9969	O1P	G	A	485	129.899	66.860	38.756	1.00	109.43	A16S
ATOM	9970	O2P	G	A	485	128.433	68.970	38.695	1.00	109.43	A16S
ATOM	9971	O5*	G	A	485	130.911	69.086	39.181	1.00	103.34	A16S
ATOM	9972	C5*	G	A	485	130.773	69.505	40.564	1.00	103.34	A16S
ATOM	9973	C4*	G	A	485	129.979	70.789	40.631	1.00	103.34	A16S
ATOM	9974	O4*	G	A	485	128.668	70.528	41.177	1.00	103.34	A16S
ATOM	9975	C1*	G	A	485	128.129	71.748	41.619	1.00	103.34	A16S
ATOM	9976	N9	G	A	485	127.341	71.556	42.826	1.00	109.43	A16S
ATOM	9977	C4	G	A	485	126.086	72.061	43.013	1.00	109.43	A16S
ATOM	9978	N3	G	A	485	125.413	72.817	42.130	1.00	109.43	A16S
ATOM	9979	C2	G	A	485	124.231	73.166	42.580	1.00	109.43	A16S
ATOM	9980	N2	G	A	485	123.462	73.941	41.831	1.00	109.43	A16S
ATOM	9981	N1	G	A	485	123.724	72.786	43.802	1.00	109.43	A16S
ATOM	9982	C6	G	A	485	124.395	72.002	44.737	1.00	109.43	A16S
ATOM	9983	O6	G	A	485	123.845	71.717	45.819	1.00	109.43	A16S
ATOM	9984	C5	G	A	485	125.695	71.631	44.263	1.00	109.43	A16S
ATOM	9985	N7	G	A	485	126.702	70.879	44.860	1.00	109.43	A16S
ATOM	9986	C8	G	A	485	127.661	70.863	43.969	1.00	109.43	A16S
ATOM	9987	C2*	G	A	485	129.252	72.772	41.739	1.00	103.34	A16S
ATOM	9988	O2*	G	A	485	129.038	73.738	40.733	1.00	103.34	A16S
ATOM	9989	C3*	G	A	485	130.506	71.932	41.488	1.00	103.34	A16S
ATOM	9990	O3*	G	A	485	131.468	72.668	40.720	1.00	103.34	A16S
ATOM	9991	P	U	A	486	131.845	74.195	41.103	1.00	106.54	A16S
ATOM	9992	O1P	U	A	486	133.267	74.173	41.546	1.00	96.20	A16S
ATOM	9993	O2P	U	A	486	130.827	74.839	41.975	1.00	96.20	A16S
ATOM	9994	O5*	U	A	486	131.775	74.950	39.703	1.00	106.54	A16S
ATOM	9995	C5*	U	A	486	132.852	74.854	38.764	1.00	106.54	A16S
ATOM	9996	C4*	U	A	486	132.434	75.431	37.444	1.00	106.54	A16S
ATOM	9997	O4*	U	A	486	131.326	74.653	36.934	1.00	106.54	A16S
ATOM	9998	C1*	U	A	486	130.450	75.496	36.210	1.00	106.54	A16S
ATOM	9999	N1	U	A	486	129.112	75.438	36.814	1.00	96.20	A16S
ATOM	10000	C6	U	A	486	128.859	74.740	37.967	1.00	96.20	A16S
ATOM	10001	C2	U	A	486	128.104	76.133	36.174	1.00	96.20	A16S
ATOM	10002	O2	U	A	486	128.286	76.748	35.143	1.00	96.20	A16S
ATOM	10003	N3	U	A	486	126.878	76.080	36.782	1.00	96.20	A16S



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ATOM	10004	C4	U	A	486	126.562	75.412	37.936	1.00	96.20	A16S
ATOM	10005	O4	U	A	486	125.415	75.469	38.367	1.00	96.20	A16S
ATOM	10006	C5	U	A	486	127.650	74.705	38.534	1.00	96.20	A16S
ATOM	10007	C2*	U	A	486	131.024	76.911	36.245	1.00106.54		A16S
ATOM	10008	O2*	U	A	486	131.761	77.136	35.061	1.00106.54		A16S
ATOM	10009	C3*	U	A	486	131.902	76.854	37.483	1.00106.54		A16S
ATOM	10010	O3*	U	A	486	132.934	77.831	37.440	1.00106.54		A16S
ATOM	10011	P	A	A	487	132.663	79.301	38.055	1.00102.50		A16S
ATOM	10012	O1P	A	A	487	133.891	80.141	37.856	1.00	94.52	A16S
ATOM	10013	O2P	A	A	487	132.108	79.123	39.433	1.00	94.52	A16S
ATOM	10014	O5*	A	A	487	131.483	79.891	37.158	1.00102.50		A16S
ATOM	10015	C5*	A	A	487	131.712	80.279	35.799	1.00102.50		A16S
ATOM	10016	C4*	A	A	487	130.521	81.027	35.276	1.00102.50		A16S
ATOM	10017	O4*	A	A	487	129.367	80.161	35.339	1.00102.50		A16S
ATOM	10018	C1*	A	A	487	128.222	80.914	35.682	1.00102.50		A16S
ATOM	10019	N9	A	A	487	127.646	80.343	36.897	1.00	94.52	A16S
ATOM	10020	C4	A	A	487	126.376	80.578	37.351	1.00	94.52	A16S
ATOM	10021	N3	A	A	487	125.453	81.370	36.790	1.00	94.52	A16S
ATOM	10022	C2	A	A	487	124.334	81.353	37.500	1.00	94.52	A16S
ATOM	10023	N1	A	A	487	124.050	80.682	38.618	1.00	94.52	A16S
ATOM	10024	C6	A	A	487	125.000	79.893	39.155	1.00	94.52	A16S
ATOM	10025	N6	A	A	487	124.708	79.220	40.267	1.00	94.52	A16S
ATOM	10026	C5	A	A	487	126.240	79.830	38.501	1.00	94.52	A16S
ATOM	10027	N7	A	A	487	127.412	79.141	38.780	1.00	94.52	A16S
ATOM	10028	C8	A	A	487	128.214	79.480	37.803	1.00	94.52	A16S
ATOM	10029	C2*	A	A	487	128.641	82.376	35.827	1.00102.50		A16S
ATOM	10030	O2*	A	A	487	128.345	83.073	34.635	1.00102.50		A16S
ATOM	10031	C3*	A	A	487	130.135	82.242	36.093	1.00102.50		A16S
ATOM	10032	O3*	A	A	487	130.863	83.378	35.671	1.00102.50		A16S
ATOM	10033	P	C	A	488	131.389	84.427	36.761	1.00105.55		A16S
ATOM	10034	O1P	C	A	488	131.915	85.605	36.023	1.00	83.38	A16S
ATOM	10035	O2P	C	A	488	132.276	83.701	37.716	1.00	83.38	A16S
ATOM	10036	O5*	C	A	488	130.053	84.879	37.501	1.00105.55		A16S
ATOM	10037	C5*	C	A	488	129.040	85.644	36.806	1.00105.55		A16S
ATOM	10038	C4*	C	A	488	127.790	85.748	37.650	1.00105.55		A16S
ATOM	10039	O4*	C	A	488	127.196	84.430	37.780	1.00105.55		A16S
ATOM	10040	C1*	C	A	488	126.678	84.261	39.094	1.00105.55		A16S
ATOM	10041	N1	C	A	488	127.421	83.165	39.762	1.00	83.38	A16S
ATOM	10042	C6	C	A	488	128.705	82.861	39.397	1.00	83.38	A16S
ATOM	10043	C2	C	A	488	126.789	82.435	40.771	1.00	83.38	A16S
ATOM	10044	O2	C	A	488	125.637	82.754	41.109	1.00	83.38	A16S
ATOM	10045	N3	C	A	488	127.454	81.405	41.355	1.00	83.38	A16S
ATOM	10046	C4	C	A	488	128.698	81.104	40.967	1.00	83.38	A16S
ATOM	10047	N4	C	A	488	129.306	80.064	41.536	1.00	83.38	A16S
ATOM	10048	C5	C	A	488	129.372	81.850	39.969	1.00	83.38	A16S
ATOM	10049	C2*	C	A	488	126.830	85.594	39.821	1.00105.55		A16S
ATOM	10050	O2*	C	A	488	125.651	86.362	39.673	1.00105.55		A16S
ATOM	10051	C3*	C	A	488	128.013	86.203	39.085	1.00105.55		A16S
ATOM	10052	O3*	C	A	488	128.070	87.611	39.235	1.00105.55		A16S
ATOM	10053	P	C	A	489	128.752	88.231	40.550	1.00	96.50	A16S
ATOM	10054	O1P	C	A	489	128.777	89.703	40.366	1.00	82.72	A16S
ATOM	10055	O2P	C	A	489	130.022	87.497	40.824	1.00	82.72	A16S
ATOM	10056	O5*	C	A	489	127.709	87.891	41.706	1.00	96.50	A16S
ATOM	10057	C5*	C	A	489	126.364	88.424	41.675	1.00	96.50	A16S
ATOM	10058	C4*	C	A	489	125.584	87.982	42.896	1.00	96.50	A16S
ATOM	10059	O4*	C	A	489	125.285	86.560	42.810	1.00	96.50	A16S
ATOM	10060	C1*	C	A	489	125.357	85.975	44.105	1.00	96.50	A16S
ATOM	10061	N1	C	A	489	126.455	84.989	44.106	1.00	82.72	A16S
ATOM	10062	C6	C	A	489	127.655	85.287	43.523	1.00	82.72	A16S
ATOM	10063	C2	C	A	489	126.263	83.753	44.723	1.00	82.72	A16S
ATOM	10064	O2	C	A	489	125.166	83.497	45.240	1.00	82.72	A16S
ATOM	10065	N3	C	A	489	127.280	82.864	44.742	1.00	82.72	A16S
ATOM	10066	C4	C	A	489	128.447	83.171	44.174	1.00	82.72	A16S
ATOM	10067	N4	C	A	489	129.423	82.266	44.213	1.00	82.72	A16S
ATOM	10068	C5	C	A	489	128.666	84.418	43.538	1.00	82.72	A16S
ATOM	10069	C2*	C	A	489	125.627	87.102	45.109	1.00	96.50	A16S
ATOM	10070	O2*	C	A	489	124.425	87.565	45.696	1.00	96.50	A16S
ATOM	10071	C3*	C	A	489	126.310	88.137	44.223	1.00	96.50	A16S
ATOM	10072	O3*	C	A	489	126.264	89.451	44.753	1.00	96.50	A16S
ATOM	10073	P	G	A	490	127.504	89.986	45.625	1.00104.85		A16S
ATOM	10074	O1P	G	A	490	127.312	91.441	45.806	1.00124.03		A16S
ATOM	10075	O2P	G	A	490	128.782	89.478	45.054	1.00124.03		A16S
ATOM	10076	O5*	G	A	490	127.287	89.292	47.037	1.00104.85		A16S
ATOM	10077	C5*	G	A	490	126.088	89.527	47.792	1.00104.85		A16S
ATOM	10078	C4*	G	A	490	126.090	88.673	49.030	1.00104.85		A16S
ATOM	10079	O4*	G	A	490	125.911	87.281	48.663	1.00104.85		A16S
ATOM	10080	C1*	G	A	490	126.696	86.457	49.512	1.00104.85		A16S



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ATOM	10081	N9	G	A	490	127.622	85.691	48.682	1.00124.03	A16S
ATOM	10082	C4	G	A	490	128.455	84.684	49.110	1.00124.03	A16S
ATOM	10083	N3	G	A	490	128.512	84.178	50.360	1.00124.03	A16S
ATOM	10084	C2	G	A	490	129.442	83.243	50.472	1.00124.03	A16S
ATOM	10085	N2	G	A	490	129.623	82.614	51.640	1.00124.03	A16S
ATOM	10086	N1	G	A	490	130.263	82.853	49.445	1.00124.03	A16S
ATOM	10087	C6	G	A	490	130.231	83.371	48.156	1.00124.03	A16S
ATOM	10088	O6	G	A	490	131.042	82.975	47.314	1.00124.03	A16S
ATOM	10089	C5	G	A	490	129.214	84.349	48.012	1.00124.03	A16S
ATOM	10090	N7	G	A	490	128.826	85.085	46.900	1.00124.03	A16S
ATOM	10091	C8	G	A	490	127.874	85.859	47.342	1.00124.03	A16S
ATOM	10092	C2*	G	A	490	127.427	87.365	50.511	1.00104.85	A16S
ATOM	10093	O2*	G	A	490	126.763	87.385	51.759	1.00104.85	A16S
ATOM	10094	C3*	G	A	490	127.400	88.709	49.793	1.00104.85	A16S
ATOM	10095	O3*	G	A	490	127.454	89.815	50.675	1.00104.85	A16S
ATOM	10096	P	G	A	491	128.877	90.446	51.053	1.00 84.31	A16S
ATOM	10097	O1P	G	A	491	128.611	91.668	51.848	1.00138.38	A16S
ATOM	10098	O2P	G	A	491	129.675	90.546	49.805	1.00138.38	A16S
ATOM	10099	O5*	G	A	491	129.544	89.344	52.000	1.00 84.31	A16S
ATOM	10100	C5*	G	A	491	128.995	89.059	53.315	1.00 84.31	A16S
ATOM	10101	C4*	G	A	491	129.800	87.983	54.019	1.00 84.31	A16S
ATOM	10102	O4*	G	A	491	129.597	86.704	53.367	1.00 84.31	A16S
ATOM	10103	C1*	G	A	491	130.790	85.937	53.430	1.00 84.31	A16S
ATOM	10104	N9	G	A	491	131.229	85.648	52.068	1.00138.38	A16S
ATOM	10105	C4	G	A	491	132.237	84.787	51.693	1.00138.38	A16S
ATOM	10106	N3	G	A	491	132.991	84.036	52.523	1.00138.38	A16S
ATOM	10107	C2	G	A	491	133.889	83.325	51.861	1.00138.38	A16S
ATOM	10108	N2	G	A	491	134.726	82.525	52.523	1.00138.38	A16S
ATOM	10109	N1	G	A	491	134.035	83.347	50.500	1.00138.38	A16S
ATOM	10110	C6	G	A	491	133.272	84.113	49.626	1.00138.38	A16S
ATOM	10111	O6	G	A	491	133.490	84.066	48.409	1.00138.38	A16S
ATOM	10112	C5	G	A	491	132.303	84.879	50.319	1.00138.38	A16S
ATOM	10113	N7	G	A	491	131.348	85.764	49.837	1.00138.38	A16S
ATOM	10114	C8	G	A	491	130.736	86.194	50.906	1.00138.38	A16S
ATOM	10115	C2*	G	A	491	131.831	86.749	54.201	1.00 84.31	A16S
ATOM	10116	O2*	G	A	491	131.851	86.310	55.537	1.00 84.31	A16S
ATOM	10117	C3*	G	A	491	131.308	88.172	54.041	1.00 84.31	A16S
ATOM	10118	O3*	G	A	491	131.722	89.007	55.114	1.00 84.31	A16S
ATOM	10119	P	G	A	492	133.124	89.798	55.014	1.00 93.62	A16S
ATOM	10120	O1P	G	A	492	133.209	90.697	56.201	1.00137.41	A16S
ATOM	10121	O2P	G	A	492	133.255	90.374	53.645	1.00137.41	A16S
ATOM	10122	O5*	G	A	492	134.241	88.670	55.183	1.00 93.62	A16S
ATOM	10123	C5*	G	A	492	134.355	87.936	56.410	1.00 93.62	A16S
ATOM	10124	C4*	G	A	492	135.407	86.867	56.291	1.00 93.62	A16S
ATOM	10125	O4*	G	A	492	135.028	85.909	55.275	1.00 93.62	A16S
ATOM	10126	C1*	G	A	492	136.191	85.400	54.647	1.00 93.62	A16S
ATOM	10127	N9	G	A	492	136.095	85.624	53.205	1.00137.41	A16S
ATOM	10128	C4	G	A	492	137.035	85.279	52.257	1.00137.41	A16S
ATOM	10129	N3	G	A	492	138.223	84.688	52.497	1.00137.41	A16S
ATOM	10130	C2	G	A	492	138.901	84.472	51.384	1.00137.41	A16S
ATOM	10131	N2	G	A	492	140.098	83.882	51.439	1.00137.41	A16S
ATOM	10132	N1	G	A	492	138.455	84.816	50.135	1.00137.41	A16S
ATOM	10133	C6	G	A	492	137.238	85.427	49.863	1.00137.41	A16S
ATOM	10134	O6	G	A	492	136.932	85.691	48.694	1.00137.41	A16S
ATOM	10135	C5	G	A	492	136.495	85.661	51.050	1.00137.41	A16S
ATOM	10136	N7	G	A	492	135.249	86.242	51.231	1.00137.41	A16S
ATOM	10137	C8	G	A	492	135.056	86.205	52.520	1.00137.41	A16S
ATOM	10138	C2*	G	A	492	137.404	86.071	55.290	1.00 93.62	A16S
ATOM	10139	O2*	G	A	492	137.939	85.200	56.267	1.00 93.62	A16S
ATOM	10140	C3*	G	A	492	136.788	87.334	55.880	1.00 93.62	A16S
ATOM	10141	O3*	G	A	492	137.517	87.789	57.005	1.00 93.62	A16S
ATOM	10142	P	G	A	494	138.644	88.918	56.819	1.00 89.09	A16S
ATOM	10143	O1P	G	A	494	139.400	89.016	58.097	1.00116.78	A16S
ATOM	10144	O2P	G	A	494	137.981	90.128	56.255	1.00116.78	A16S
ATOM	10145	O5*	G	A	494	139.634	88.301	55.738	1.00 89.09	A16S
ATOM	10146	C5*	G	A	494	140.507	87.215	56.077	1.00 89.09	A16S
ATOM	10147	C4*	G	A	494	141.369	86.855	54.892	1.00 89.09	A16S
ATOM	10148	O4*	G	A	494	140.553	86.282	53.840	1.00 89.09	A16S
ATOM	10149	C1*	G	A	494	141.054	86.681	52.577	1.00 89.09	A16S
ATOM	10150	N9	G	A	494	140.016	87.469	51.922	1.00116.78	A16S
ATOM	10151	C4	G	A	494	139.860	87.686	50.572	1.00116.78	A16S
ATOM	10152	N3	G	A	494	140.646	87.202	49.590	1.00116.78	A16S
ATOM	10153	C2	G	A	494	140.231	87.585	48.395	1.00116.78	A16S
ATOM	10154	N2	G	A	494	140.891	87.205	47.303	1.00116.78	A16S
ATOM	10155	N1	G	A	494	139.136	88.374	48.182	1.00116.78	A16S
ATOM	10156	C6	G	A	494	138.313	88.882	49.175	1.00116.78	A16S
ATOM	10157	O6	G	A	494	137.342	89.585	48.873	1.00116.78	A16S



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ATOM	10158	C5	G	A	494	138.745	88.485	50.460	1.00116.78	A16S
ATOM	10159	N7	G	A	494	138.212	88.766	51.708	1.00116.78	A16S
ATOM	10160	C8	G	A	494	138.997	88.145	52.541	1.00116.78	A16S
ATOM	10161	C2*	G	A	494	142.332	87.485	52.822	1.00 89.09	A16S
ATOM	10162	O2*	G	A	494	143.451	86.621	52.784	1.00 89.09	A16S
ATOM	10163	C3*	G	A	494	142.097	88.011	54.228	1.00 89.09	A16S
ATOM	10164	O3*	G	A	494	143.318	88.289	54.894	1.00 89.09	A16S
ATOM	10165	P	U	A	495	144.262	89.475	54.366	1.00104.12	A16S
ATOM	10166	O1P	U	A	495	144.970	90.091	55.529	1.00101.64	A16S
ATOM	10167	O2P	U	A	495	143.434	90.333	53.476	1.00101.64	A16S
ATOM	10168	O5*	U	A	495	145.347	88.708	53.489	1.00104.12	A16S
ATOM	10169	C5*	U	A	495	146.258	87.786	54.101	1.00104.12	A16S
ATOM	10170	C4*	U	A	495	147.255	87.302	53.088	1.00104.12	A16S
ATOM	10171	O4*	U	A	495	146.562	86.539	52.074	1.00104.12	A16S
ATOM	10172	C1*	U	A	495	147.133	86.802	50.807	1.00104.12	A16S
ATOM	10173	N1	U	A	495	146.107	87.455	49.985	1.00101.64	A16S
ATOM	10174	C6	U	A	495	144.982	87.984	50.554	1.00101.64	A16S
ATOM	10175	C2	U	A	495	146.306	87.522	48.624	1.00101.64	A16S
ATOM	10176	O2	U	A	495	147.300	87.088	48.073	1.00101.64	A16S
ATOM	10177	N3	U	A	495	145.299	88.124	47.928	1.00101.64	A16S
ATOM	10178	C4	U	A	495	144.153	88.652	48.441	1.00101.64	A16S
ATOM	10179	O4	U	A	495	143.298	89.040	47.681	1.00101.64	A16S
ATOM	10180	C5	U	A	495	144.028	88.568	49.846	1.00101.64	A16S
ATOM	10181	C2*	U	A	495	148.349	87.701	51.026	1.00104.12	A16S
ATOM	10182	O2*	U	A	495	149.508	86.903	51.165	1.00104.12	A16S
ATOM	10183	C3*	U	A	495	147.977	88.397	52.323	1.00104.12	A16S
ATOM	10184	O3*	U	A	495	149.119	88.847	53.021	1.00104.12	A16S
ATOM	10185	P	A	A	496	149.530	90.397	52.956	1.00104.22	A16S
ATOM	10186	O1P	A	A	496	150.671	90.547	53.893	1.00105.93	A16S
ATOM	10187	O2P	A	A	496	148.314	91.237	53.130	1.00105.93	A16S
ATOM	10188	O5*	A	A	496	150.100	90.612	51.484	1.00104.22	A16S
ATOM	10189	C5*	A	A	496	151.168	91.553	51.255	1.00104.22	A16S
ATOM	10190	C4*	A	A	496	151.645	91.499	49.821	1.00104.22	A16S
ATOM	10191	O4*	A	A	496	150.531	91.719	48.918	1.00104.22	A16S
ATOM	10192	C1*	A	A	496	150.807	92.831	48.099	1.00104.22	A16S
ATOM	10193	N9	A	A	496	149.544	93.485	47.766	1.00105.93	A16S
ATOM	10194	C4	A	A	496	148.973	93.465	46.517	1.00105.93	A16S
ATOM	10195	N3	A	A	496	149.458	92.871	45.412	1.00105.93	A16S
ATOM	10196	C2	A	A	496	148.639	93.057	44.380	1.00105.93	A16S
ATOM	10197	N1	A	A	496	147.476	93.717	44.328	1.00105.93	A16S
ATOM	10198	C6	A	A	496	147.016	94.303	45.453	1.00105.93	A16S
ATOM	10199	N6	A	A	496	145.859	94.965	45.389	1.00105.93	A16S
ATOM	10200	C5	A	A	496	147.796	94.178	46.625	1.00105.93	A16S
ATOM	10201	N7	A	A	496	147.627	94.646	47.922	1.00105.93	A16S
ATOM	10202	C8	A	A	496	148.689	94.208	48.556	1.00105.93	A16S
ATOM	10203	C2*	A	A	496	151.848	93.666	48.845	1.00104.22	A16S
ATOM	10204	O2*	A	A	496	152.590	94.492	47.967	1.00104.22	A16S
ATOM	10205	C3*	A	A	496	152.689	92.569	49.497	1.00104.22	A16S
ATOM	10206	O3*	A	A	496	153.655	92.106	48.535	1.00104.22	A16S
ATOM	10207	P	A	A	497	154.243	90.602	48.615	1.00117.38	A16S
ATOM	10208	O1P	A	A	497	154.149	90.122	50.018	1.00100.60	A16S
ATOM	10209	O2P	A	A	497	155.559	90.585	47.923	1.00100.60	A16S
ATOM	10210	O5*	A	A	497	153.208	89.758	47.741	1.00117.38	A16S
ATOM	10211	C5*	A	A	497	153.532	88.436	47.280	1.00117.38	A16S
ATOM	10212	C4*	A	A	497	152.740	88.106	46.036	1.00117.38	A16S
ATOM	10213	O4*	A	A	497	151.331	88.134	46.354	1.00117.38	A16S
ATOM	10214	C1*	A	A	497	150.597	88.471	45.197	1.00117.38	A16S
ATOM	10215	N9	A	A	497	149.434	89.288	45.567	1.00100.60	A16S
ATOM	10216	C4	A	A	497	148.438	89.724	44.721	1.00100.60	A16S
ATOM	10217	N3	A	A	497	148.360	89.554	43.392	1.00100.60	A16S
ATOM	10218	C2	A	A	497	147.238	90.089	42.912	1.00100.60	A16S
ATOM	10219	N1	A	A	497	146.254	90.718	43.558	1.00100.60	A16S
ATOM	10220	C6	A	A	497	146.358	90.870	44.891	1.00100.60	A16S
ATOM	10221	N6	A	A	497	145.369	91.485	45.531	1.00100.60	A16S
ATOM	10222	C5	A	A	497	147.509	90.360	45.524	1.00100.60	A16S
ATOM	10223	N7	A	A	497	147.926	90.363	46.847	1.00100.60	A16S
ATOM	10224	C8	A	A	497	149.074	89.727	46.818	1.00100.60	A16S
ATOM	10225	C2*	A	A	497	151.556	88.997	44.124	1.00117.38	A16S
ATOM	10226	O2*	A	A	497	151.541	88.125	43.017	1.00117.38	A16S
ATOM	10227	C3*	A	A	497	152.887	89.082	44.878	1.00117.38	A16S
ATOM	10228	O3*	A	A	497	154.106	88.888	44.105	1.00117.38	A16S
ATOM	10229	P	U	A	498	154.453	87.463	43.376	1.00 93.52	A16S
ATOM	10230	O1P	U	A	498	153.272	86.552	43.280	1.00 95.68	A16S
ATOM	10231	O2P	U	A	498	155.704	86.948	44.013	1.00 95.68	A16S
ATOM	10232	O5*	U	A	498	154.856	87.906	41.894	1.00 93.52	A16S
ATOM	10233	C5*	U	A	498	153.980	87.660	40.771	1.00 93.52	A16S
ATOM	10234	C4*	U	A	498	154.775	87.167	39.584	1.00 93.52	A16S



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ATOM	10235	O4*	U	A	498	153.884	86.486	38.676	1.00	93.52	A16S
ATOM	10236	C1*	U	A	498	154.328	86.672	37.345	1.00	93.52	A16S
ATOM	10237	N1	U	A	498	153.232	87.265	36.563	1.00	95.68	A16S
ATOM	10238	C6	U	A	498	152.062	87.656	37.170	1.00	95.68	A16S
ATOM	10239	C2	U	A	498	153.398	87.403	35.195	1.00	95.68	A16S
ATOM	10240	O2	U	A	498	154.427	87.103	34.610	1.00	95.68	A16S
ATOM	10241	N3	U	A	498	152.313	87.916	34.535	1.00	95.68	A16S
ATOM	10242	C4	U	A	498	151.114	88.304	35.084	1.00	95.68	A16S
ATOM	10243	O4	U	A	498	150.217	88.701	34.350	1.00	95.68	A16S
ATOM	10244	C5	U	A	498	151.028	88.156	36.494	1.00	95.68	A16S
ATOM	10245	C2*	U	A	498	155.607	87.509	37.385	1.00	93.52	A16S
ATOM	10246	O2*	U	A	498	156.724	86.646	37.320	1.00	93.52	A16S
ATOM	10247	C3*	U	A	498	155.495	88.204	38.734	1.00	93.52	A16S
ATOM	10248	O3*	U	A	498	156.798	88.484	39.227	1.00	93.52	A16S
ATOM	10249	P	A	A	499	157.580	89.799	38.722	1.00	77.74	A16S
ATOM	10250	O1P	A	A	499	158.982	89.729	39.249	1.00	84.69	A16S
ATOM	10251	O2P	A	A	499	156.722	90.983	39.041	1.00	84.69	A16S
ATOM	10252	O5*	A	A	499	157.646	89.662	37.131	1.00	77.74	A16S
ATOM	10253	C5*	A	A	499	158.601	88.784	36.494	1.00	77.74	A16S
ATOM	10254	C4*	A	A	499	158.907	89.257	35.089	1.00	77.74	A16S
ATOM	10255	O4*	A	A	499	157.713	89.161	34.270	1.00	77.74	A16S
ATOM	10256	C1*	A	A	499	157.504	90.389	33.617	1.00	77.74	A16S
ATOM	10257	N9	A	A	499	156.078	90.546	33.345	1.00	84.69	A16S
ATOM	10258	C4	A	A	499	155.529	90.751	32.101	1.00	84.69	A16S
ATOM	10259	N3	A	A	499	156.180	90.870	30.927	1.00	84.69	A16S
ATOM	10260	C2	A	A	499	155.317	91.033	29.926	1.00	84.69	A16S
ATOM	10261	N1	A	A	499	153.979	91.087	29.961	1.00	84.69	A16S
ATOM	10262	C6	A	A	499	153.357	90.967	31.158	1.00	84.69	A16S
ATOM	10263	N6	A	A	499	152.020	91.019	31.200	1.00	84.69	A16S
ATOM	10264	C5	A	A	499	154.161	90.791	32.297	1.00	84.69	A16S
ATOM	10265	N7	A	A	499	153.854	90.635	33.641	1.00	84.69	A16S
ATOM	10266	C8	A	A	499	155.023	90.500	34.218	1.00	84.69	A16S
ATOM	10267	C2*	A	A	499	158.162	91.442	34.504	1.00	77.74	A16S
ATOM	10268	O2*	A	A	499	158.451	92.613	33.765	1.00	77.74	A16S
ATOM	10269	C3*	A	A	499	159.413	90.693	34.957	1.00	77.74	A16S
ATOM	10270	O3*	A	A	499	160.347	90.779	33.879	1.00	77.74	A16S
ATOM	10271	P	G	A	500	161.862	90.264	34.061	1.00	81.54	A16S
ATOM	10272	O1P	G	A	500	161.897	89.259	35.164	1.00	78.81	A16S
ATOM	10273	O2P	G	A	500	162.776	91.437	34.108	1.00	78.81	A16S
ATOM	10274	O5*	G	A	500	162.135	89.494	32.693	1.00	81.54	A16S
ATOM	10275	C5*	G	A	500	161.508	88.227	32.442	1.00	81.54	A16S
ATOM	10276	C4*	G	A	500	160.697	88.269	31.166	1.00	81.54	A16S
ATOM	10277	O4*	G	A	500	159.595	89.209	31.287	1.00	81.54	A16S
ATOM	10278	C1*	G	A	500	159.311	89.771	30.013	1.00	81.54	A16S
ATOM	10279	N9	G	A	500	159.506	91.215	30.084	1.00	78.81	A16S
ATOM	10280	C4	G	A	500	158.972	92.158	29.233	1.00	78.81	A16S
ATOM	10281	N3	G	A	500	158.144	91.916	28.190	1.00	78.81	A16S
ATOM	10282	C2	G	A	500	157.806	93.034	27.557	1.00	78.81	A16S
ATOM	10283	N2	G	A	500	156.979	92.990	26.503	1.00	78.81	A16S
ATOM	10284	N1	G	A	500	158.248	94.280	27.915	1.00	78.81	A16S
ATOM	10285	C6	G	A	500	159.094	94.550	28.986	1.00	78.81	A16S
ATOM	10286	O6	G	A	500	159.419	95.716	29.234	1.00	78.81	A16S
ATOM	10287	C5	G	A	500	159.466	93.366	29.672	1.00	78.81	A16S
ATOM	10288	N7	G	A	500	160.288	93.190	30.777	1.00	78.81	A16S
ATOM	10289	C8	G	A	500	160.278	91.903	30.988	1.00	78.81	A16S
ATOM	10290	C2*	G	A	500	160.279	89.147	29.006	1.00	81.54	A16S
ATOM	10291	O2*	G	A	500	159.639	88.064	28.360	1.00	81.54	A16S
ATOM	10292	C3*	G	A	500	161.425	88.711	29.911	1.00	81.54	A16S
ATOM	10293	O3*	G	A	500	162.195	87.666	29.350	1.00	81.54	A16S
ATOM	10294	P	C	A	501	163.590	88.017	28.637	1.00	72.62	A16S
ATOM	10295	O1P	C	A	501	164.280	86.724	28.425	1.00	83.66	A16S
ATOM	10296	O2P	C	A	501	164.288	89.104	29.374	1.00	83.66	A16S
ATOM	10297	O5*	C	A	501	163.147	88.639	27.235	1.00	72.62	A16S
ATOM	10298	C5*	C	A	501	162.550	87.812	26.200	1.00	72.62	A16S
ATOM	10299	C4*	C	A	501	162.223	88.644	24.976	1.00	72.62	A16S
ATOM	10300	O4*	C	A	501	161.115	89.539	25.264	1.00	72.62	A16S
ATOM	10301	C1*	C	A	501	161.309	90.768	24.587	1.00	72.62	A16S
ATOM	10302	N1	C	A	501	161.452	91.840	25.588	1.00	83.66	A16S
ATOM	10303	C6	C	A	501	162.171	91.635	26.733	1.00	83.66	A16S
ATOM	10304	C2	C	A	501	160.867	93.089	25.336	1.00	83.66	A16S
ATOM	10305	O2	C	A	501	160.182	93.240	24.314	1.00	83.66	A16S
ATOM	10306	N3	C	A	501	161.060	94.096	26.215	1.00	83.66	A16S
ATOM	10307	C4	C	A	501	161.788	93.890	27.313	1.00	83.66	A16S
ATOM	10308	N4	C	A	501	161.977	94.919	28.141	1.00	83.66	A16S
ATOM	10309	C5	C	A	501	162.363	92.621	27.610	1.00	83.66	A16S
ATOM	10310	C2*	C	A	501	162.584	90.645	23.751	1.00	72.62	A16S
ATOM	10311	O2*	C	A	501	162.274	90.232	22.445	1.00	72.62	A16S



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ATOM	10312	C3*	C	A	501	163.335	89.560	24.495	1.00	72.62	A16S
ATOM	10313	O3*	C	A	501	164.248	88.917	23.637	1.00	72.62	A16S
ATOM	10314	P	G	A	502	165.646	89.627	23.332	1.00	61.70	A16S
ATOM	10315	O1P	G	A	502	166.500	88.691	22.573	1.00	87.85	A16S
ATOM	10316	O2P	G	A	502	166.146	90.187	24.606	1.00	87.85	A16S
ATOM	10317	O5*	G	A	502	165.256	90.844	22.380	1.00	61.70	A16S
ATOM	10318	C5*	G	A	502	164.808	90.594	21.043	1.00	61.70	A16S
ATOM	10319	C4*	G	A	502	164.402	91.877	20.364	1.00	61.70	A16S
ATOM	10320	O4*	G	A	502	163.273	92.462	21.053	1.00	61.70	A16S
ATOM	10321	C1*	G	A	502	163.334	93.874	20.950	1.00	61.70	A16S
ATOM	10322	N9	G	A	502	163.418	94.440	22.292	1.00	87.85	A16S
ATOM	10323	C4	G	A	502	163.326	95.774	22.612	1.00	87.85	A16S
ATOM	10324	N3	G	A	502	163.089	96.779	21.748	1.00	87.85	A16S
ATOM	10325	C2	G	A	502	163.078	97.950	22.351	1.00	87.85	A16S
ATOM	10326	N2	G	A	502	162.831	99.057	21.647	1.00	87.85	A16S
ATOM	10327	N1	G	A	502	163.305	98.125	23.688	1.00	87.85	A16S
ATOM	10328	C6	G	A	502	163.563	97.107	24.594	1.00	87.85	A16S
ATOM	10329	O6	G	A	502	163.783	97.380	25.776	1.00	87.85	A16S
ATOM	10330	C5	G	A	502	163.547	95.840	23.968	1.00	87.85	A16S
ATOM	10331	N7	G	A	502	163.727	94.571	24.501	1.00	87.85	A16S
ATOM	10332	C8	G	A	502	163.639	93.773	23.473	1.00	87.85	A16S
ATOM	10333	C2*	G	A	502	164.574	94.222	20.126	1.00	61.70	A16S
ATOM	10334	O2*	G	A	502	164.196	94.376	18.774	1.00	61.70	A16S
ATOM	10335	C3*	G	A	502	165.432	92.987	20.329	1.00	61.70	A16S
ATOM	10336	O3*	G	A	502	166.344	92.823	19.267	1.00	61.70	A16S
ATOM	10337	P	C	A	503	167.854	93.327	19.455	1.00	67.45	A16S
ATOM	10338	O1P	C	A	503	168.678	92.793	18.322	1.00	78.21	A16S
ATOM	10339	O2P	C	A	503	168.243	92.998	20.870	1.00	78.21	A16S
ATOM	10340	O5*	C	A	503	167.736	94.910	19.310	1.00	67.45	A16S
ATOM	10341	C5*	C	A	503	167.215	95.481	18.109	1.00	67.45	A16S
ATOM	10342	C4*	C	A	503	166.767	96.897	18.349	1.00	67.45	A16S
ATOM	10343	O4*	C	A	503	165.773	96.914	19.405	1.00	67.45	A16S
ATOM	10344	C1*	C	A	503	165.901	98.107	20.156	1.00	67.45	A16S
ATOM	10345	N1	C	A	503	166.237	97.751	21.549	1.00	78.21	A16S
ATOM	10346	C6	C	A	503	166.530	96.462	21.897	1.00	78.21	A16S
ATOM	10347	C2	C	A	503	166.276	98.760	22.510	1.00	78.21	A16S
ATOM	10348	O2	C	A	503	165.968	99.909	22.184	1.00	78.21	A16S
ATOM	10349	N3	C	A	503	166.642	98.457	23.770	1.00	78.21	A16S
ATOM	10350	C4	C	A	503	166.941	97.204	24.093	1.00	78.21	A16S
ATOM	10351	N4	C	A	503	167.299	96.955	25.345	1.00	78.21	A16S
ATOM	10352	C5	C	A	503	166.885	96.149	23.147	1.00	78.21	A16S
ATOM	10353	C2*	C	A	503	167.011	98.940	19.508	1.00	67.45	A16S
ATOM	10354	O2*	C	A	503	166.458	99.861	18.590	1.00	67.45	A16S
ATOM	10355	C3*	C	A	503	167.835	97.866	18.817	1.00	67.45	A16S
ATOM	10356	O3*	C	A	503	168.590	98.392	17.739	1.00	67.45	A16S
ATOM	10357	P	C	A	504	170.152	98.714	17.946	1.00	79.14	A16S
ATOM	10358	O1P	C	A	504	170.745	98.869	16.589	1.00	69.45	A16S
ATOM	10359	O2P	C	A	504	170.728	97.728	18.882	1.00	69.45	A16S
ATOM	10360	O5*	C	A	504	170.158	100.127	18.675	1.00	79.14	A16S
ATOM	10361	C5*	C	A	504	169.544	101.265	18.054	1.00	79.14	A16S
ATOM	10362	C4*	C	A	504	169.673	102.475	18.940	1.00	79.14	A16S
ATOM	10363	O4*	C	A	504	168.829	102.317	20.103	1.00	79.14	A16S
ATOM	10364	C1*	C	A	504	169.470	102.877	21.234	1.00	79.14	A16S
ATOM	10365	N1	C	A	504	169.664	101.814	22.229	1.00	69.45	A16S
ATOM	10366	C6	C	A	504	169.714	100.502	21.853	1.00	69.45	A16S
ATOM	10367	C2	C	A	504	169.798	102.168	23.572	1.00	69.45	A16S
ATOM	10368	O2	C	A	504	169.734	103.363	23.887	1.00	69.45	A16S
ATOM	10369	N3	C	A	504	169.990	101.201	24.494	1.00	69.45	A16S
ATOM	10370	C4	C	A	504	170.044	99.923	24.117	1.00	69.45	A16S
ATOM	10371	N4	C	A	504	170.253	98.998	25.062	1.00	69.45	A16S
ATOM	10372	C5	C	A	504	169.894	99.534	22.753	1.00	69.45	A16S
ATOM	10373	C2*	C	A	504	170.790	103.496	20.770	1.00	79.14	A16S
ATOM	10374	O2*	C	A	504	170.610	104.880	20.534	1.00	79.14	A16S
ATOM	10375	C3*	C	A	504	171.064	102.712	19.496	1.00	79.14	A16S
ATOM	10376	O3*	C	A	504	171.855	103.444	18.583	1.00	79.14	A16S
ATOM	10377	P	G	A	505	173.354	102.961	18.275	1.00	89.37	A16S
ATOM	10378	O1P	G	A	505	174.191	103.398	19.429	1.00	71.24	A16S
ATOM	10379	O2P	G	A	505	173.334	101.505	17.880	1.00	71.24	A16S
ATOM	10380	O5*	G	A	505	173.761	103.843	17.014	1.00	89.37	A16S
ATOM	10381	C5*	G	A	505	174.192	105.199	17.182	1.00	89.37	A16S
ATOM	10382	C4*	G	A	505	174.487	105.825	15.845	1.00	89.37	A16S
ATOM	10383	O4*	G	A	505	175.375	104.956	15.101	1.00	89.37	A16S
ATOM	10384	C1*	G	A	505	175.109	105.073	13.719	1.00	89.37	A16S
ATOM	10385	N9	G	A	505	174.789	103.750	13.191	1.00	71.24	A16S
ATOM	10386	C4	G	A	505	174.595	103.433	11.864	1.00	71.24	A16S
ATOM	10387	N3	G	A	505	174.676	104.293	10.821	1.00	71.24	A16S
ATOM	10388	C2	G	A	505	174.413	103.700	9.668	1.00	71.24	A16S



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ATOM	10389	N2	G	A	505	174.442	104.414	8.538	1.00	71.24	A16S
ATOM	10390	N1	G	A	505	174.101	102.364	9.543	1.00	71.24	A16S
ATOM	10391	C6	G	A	505	174.020	101.455	10.599	1.00	71.24	A16S
ATOM	10392	O6	G	A	505	173.744	100.262	10.375	1.00	71.24	A16S
ATOM	10393	C5	G	A	505	174.293	102.084	11.851	1.00	71.24	A16S
ATOM	10394	N7	G	A	505	174.311	101.562	13.140	1.00	71.24	A16S
ATOM	10395	C8	G	A	505	174.611	102.584	13.899	1.00	71.24	A16S
ATOM	10396	C2*	G	A	505	173.973	106.081	13.549	1.00	89.37	A16S
ATOM	10397	O2*	G	A	505	174.515	107.361	13.282	1.00	89.37	A16S
ATOM	10398	C3*	G	A	505	173.308	106.027	14.915	1.00	89.37	A16S
ATOM	10399	O3*	G	A	505	172.635	107.239	15.204	1.00	89.37	A16S
ATOM	10400	P	G	A	506	171.039	107.314	15.038	1.00	71.23	A16S
ATOM	10401	O1P	G	A	506	170.570	108.498	15.808	1.00	76.94	A16S
ATOM	10402	O2P	G	A	506	170.479	105.966	15.344	1.00	76.94	A16S
ATOM	10403	O5*	G	A	506	170.816	107.615	13.493	1.00	71.23	A16S
ATOM	10404	C5*	G	A	506	171.245	108.858	12.916	1.00	71.23	A16S
ATOM	10405	C4*	G	A	506	171.092	108.800	11.422	1.00	71.23	A16S
ATOM	10406	O4*	G	A	506	171.978	107.780	10.905	1.00	71.23	A16S
ATOM	10407	C1*	G	A	506	171.336	107.069	9.861	1.00	71.23	A16S
ATOM	10408	N9	G	A	506	171.267	105.654	10.236	1.00	76.94	A16S
ATOM	10409	C4	G	A	506	170.962	104.617	9.390	1.00	76.94	A16S
ATOM	10410	N3	G	A	506	170.645	104.735	8.085	1.00	76.94	A16S
ATOM	10411	C2	G	A	506	170.397	103.568	7.533	1.00	76.94	A16S
ATOM	10412	N2	G	A	506	170.037	103.509	6.245	1.00	76.94	A16S
ATOM	10413	N1	G	A	506	170.477	102.375	8.203	1.00	76.94	A16S
ATOM	10414	C6	G	A	506	170.810	102.229	9.544	1.00	76.94	A16S
ATOM	10415	O6	G	A	506	170.862	101.101	10.046	1.00	76.94	A16S
ATOM	10416	C5	G	A	506	171.055	103.477	10.157	1.00	76.94	A16S
ATOM	10417	N7	G	A	506	171.388	103.787	11.469	1.00	76.94	A16S
ATOM	10418	C8	G	A	506	171.503	105.088	11.472	1.00	76.94	A16S
ATOM	10419	C2*	G	A	506	169.971	107.717	9.618	1.00	71.23	A16S
ATOM	10420	O2*	G	A	506	170.049	108.638	8.550	1.00	71.23	A16S
ATOM	10421	C3*	G	A	506	169.708	108.374	10.966	1.00	71.23	A16S
ATOM	10422	O3*	G	A	506	168.822	109.477	10.905	1.00	71.23	A16S
ATOM	10423	P	C	A	507	167.425	109.405	11.691	1.00	76.38	A16S
ATOM	10424	O1P	C	A	507	166.900	110.798	11.701	1.00	77.13	A16S
ATOM	10425	O2P	C	A	507	167.634	108.687	12.989	1.00	77.13	A16S
ATOM	10426	O5*	C	A	507	166.514	108.541	10.708	1.00	76.38	A16S
ATOM	10427	C5*	C	A	507	166.219	109.050	9.399	1.00	76.38	A16S
ATOM	10428	C4*	C	A	507	165.733	107.961	8.488	1.00	76.38	A16S
ATOM	10429	O4*	C	A	507	166.786	107.008	8.230	1.00	76.38	A16S
ATOM	10430	C1*	C	A	507	166.216	105.732	8.002	1.00	76.38	A16S
ATOM	10431	N1	C	A	507	166.790	104.761	8.952	1.00	77.13	A16S
ATOM	10432	C6	C	A	507	167.421	105.167	10.093	1.00	77.13	A16S
ATOM	10433	C2	C	A	507	166.678	103.397	8.659	1.00	77.13	A16S
ATOM	10434	O2	C	A	507	166.071	103.054	7.632	1.00	77.13	A16S
ATOM	10435	N3	C	A	507	167.222	102.490	9.502	1.00	77.13	A16S
ATOM	10436	C4	C	A	507	167.843	102.898	10.604	1.00	77.13	A16S
ATOM	10437	N4	C	A	507	168.371	101.973	11.396	1.00	77.13	A16S
ATOM	10438	C5	C	A	507	167.954	104.276	10.939	1.00	77.13	A16S
ATOM	10439	C2*	C	A	507	164.700	105.863	8.138	1.00	76.38	A16S
ATOM	10440	O2*	C	A	507	164.149	106.007	6.845	1.00	76.38	A16S
ATOM	10441	C3*	C	A	507	164.575	107.124	8.986	1.00	76.38	A16S
ATOM	10442	O3*	C	A	507	163.354	107.794	8.752	1.00	76.38	A16S
ATOM	10443	P	C	A	508	162.168	107.691	9.830	1.00	74.87	A16S
ATOM	10444	O1P	C	A	508	161.446	106.407	9.615	1.00	79.85	A16S
ATOM	10445	O2P	C	A	508	161.423	108.977	9.775	1.00	79.85	A16S
ATOM	10446	O5*	C	A	508	162.903	107.613	11.234	1.00	74.87	A16S
ATOM	10447	C5*	C	A	508	162.215	107.993	12.437	1.00	74.87	A16S
ATOM	10448	C4*	C	A	508	163.005	107.551	13.633	1.00	74.87	A16S
ATOM	10449	O4*	C	A	508	162.951	106.106	13.717	1.00	74.87	A16S
ATOM	10450	C1*	C	A	508	164.254	105.581	13.678	1.00	74.87	A16S
ATOM	10451	N1	C	A	508	164.231	104.370	12.854	1.00	79.85	A16S
ATOM	10452	C6	C	A	508	163.753	104.392	11.573	1.00	79.85	A16S
ATOM	10453	C2	C	A	508	164.713	103.191	13.402	1.00	79.85	A16S
ATOM	10454	O2	C	A	508	165.140	103.205	14.571	1.00	79.85	A16S
ATOM	10455	N3	C	A	508	164.711	102.065	12.657	1.00	79.85	A16S
ATOM	10456	C4	C	A	508	164.252	102.095	11.409	1.00	79.85	A16S
ATOM	10457	N4	C	A	508	164.280	100.959	10.710	1.00	79.85	A16S
ATOM	10458	C5	C	A	508	163.747	103.288	10.822	1.00	79.85	A16S
ATOM	10459	C2*	C	A	508	165.162	106.663	13.101	1.00	74.87	A16S
ATOM	10460	O2*	C	A	508	166.478	106.502	13.583	1.00	74.87	A16S
ATOM	10461	C3*	C	A	508	164.480	107.942	13.578	1.00	74.87	A16S
ATOM	10462	O3*	C	A	508	164.930	108.315	14.872	1.00	74.87	A16S
ATOM	10463	P	A	A	509	164.306	109.615	15.576	1.00	67.60	A16S
ATOM	10464	O1P	A	A	509	163.688	110.461	14.516	1.00	75.80	A16S
ATOM	10465	O2P	A	A	509	165.349	110.194	16.458	1.00	75.80	A16S



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ATOM	10466	O5*	A	A	509	163.122	109.004	16.453	1.00	67.60	A16S
ATOM	10467	C5*	A	A	509	162.388	109.825	17.379	1.00	67.60	A16S
ATOM	10468	C4*	A	A	509	162.554	109.305	18.788	1.00	67.60	A16S
ATOM	10469	O4*	A	A	509	161.569	108.263	19.085	1.00	67.60	A16S
ATOM	10470	C1*	A	A	509	162.174	107.223	19.848	1.00	67.60	A16S
ATOM	10471	N9	A	A	509	162.398	106.076	18.944	1.00	75.80	A16S
ATOM	10472	C4	A	A	509	162.408	104.718	19.221	1.00	75.80	A16S
ATOM	10473	N3	A	A	509	162.132	104.106	20.383	1.00	75.80	A16S
ATOM	10474	C2	A	A	509	162.274	102.787	20.267	1.00	75.80	A16S
ATOM	10475	N1	A	A	509	162.643	102.063	19.208	1.00	75.80	A16S
ATOM	10476	C6	A	A	509	162.925	102.706	18.061	1.00	75.80	A16S
ATOM	10477	N6	A	A	509	163.322	101.992	17.011	1.00	75.80	A16S
ATOM	10478	C5	A	A	509	162.796	104.096	18.043	1.00	75.80	A16S
ATOM	10479	N7	A	A	509	162.982	105.024	17.034	1.00	75.80	A16S
ATOM	10480	C8	A	A	509	162.720	106.175	17.607	1.00	75.80	A16S
ATOM	10481	C2*	A	A	509	163.536	107.774	20.294	1.00	67.60	A16S
ATOM	10482	O2*	A	A	509	163.414	108.497	21.502	1.00	67.60	A16S
ATOM	10483	C3*	A	A	509	163.889	108.649	19.095	1.00	67.60	A16S
ATOM	10484	O3*	A	A	509	165.038	109.517	19.049	1.00	67.60	A16S
ATOM	10485	P	A	A	510	165.505	110.356	20.322	1.00	67.97	A16S
ATOM	10486	O1P	A	A	510	164.264	110.938	20.910	1.00	85.39	A16S
ATOM	10487	O2P	A	A	510	166.603	111.250	19.861	1.00	85.39	A16S
ATOM	10488	O5*	A	A	510	166.149	109.299	21.319	1.00	67.97	A16S
ATOM	10489	C5*	A	A	510	166.185	109.560	22.737	1.00	67.97	A16S
ATOM	10490	C4*	A	A	510	166.619	108.323	23.466	1.00	67.97	A16S
ATOM	10491	O4*	A	A	510	165.833	107.216	22.956	1.00	67.97	A16S
ATOM	10492	C1*	A	A	510	166.647	106.067	22.833	1.00	67.97	A16S
ATOM	10493	N9	A	A	510	166.696	105.713	21.419	1.00	85.39	A16S
ATOM	10494	C4	A	A	510	166.310	104.516	20.881	1.00	85.39	A16S
ATOM	10495	N3	A	A	510	165.817	103.456	21.538	1.00	85.39	A16S
ATOM	10496	C2	A	A	510	165.557	102.463	20.690	1.00	85.39	A16S
ATOM	10497	N1	A	A	510	165.716	102.417	19.359	1.00	85.39	A16S
ATOM	10498	C6	A	A	510	166.206	103.505	18.729	1.00	85.39	A16S
ATOM	10499	N6	A	A	510	166.350	103.462	17.402	1.00	85.39	A16S
ATOM	10500	C5	A	A	510	166.532	104.625	19.520	1.00	85.39	A16S
ATOM	10501	N7	A	A	510	167.051	105.874	19.206	1.00	85.39	A16S
ATOM	10502	C8	A	A	510	167.125	106.481	20.364	1.00	85.39	A16S
ATOM	10503	C2*	A	A	510	168.025	106.408	23.403	1.00	67.97	A16S
ATOM	10504	O2*	A	A	510	168.083	106.030	24.767	1.00	67.97	A16S
ATOM	10505	C3*	A	A	510	168.062	107.917	23.215	1.00	67.97	A16S
ATOM	10506	O3*	A	A	510	168.926	108.531	24.150	1.00	67.97	A16S
ATOM	10507	P	C	A	511	169.401	110.048	23.916	1.00	76.46	A16S
ATOM	10508	O1P	C	A	511	168.566	110.917	24.794	1.00	86.89	A16S
ATOM	10509	O2P	C	A	511	169.442	110.319	22.453	1.00	86.89	A16S
ATOM	10510	O5*	C	A	511	170.885	110.064	24.499	1.00	76.46	A16S
ATOM	10511	C5*	C	A	511	172.028	109.725	23.689	1.00	76.46	A16S
ATOM	10512	C4*	C	A	511	173.206	109.439	24.583	1.00	76.46	A16S
ATOM	10513	O4*	C	A	511	173.065	108.111	25.159	1.00	76.46	A16S
ATOM	10514	C1*	C	A	511	174.278	107.416	25.001	1.00	76.46	A16S
ATOM	10515	N1	C	A	511	174.014	105.975	24.992	1.00	86.89	A16S
ATOM	10516	C6	C	A	511	173.889	105.275	23.827	1.00	86.89	A16S
ATOM	10517	C2	C	A	511	173.904	105.321	26.223	1.00	86.89	A16S
ATOM	10518	O2	C	A	511	174.000	105.988	27.268	1.00	86.89	A16S
ATOM	10519	N3	C	A	511	173.692	103.986	26.248	1.00	86.89	A16S
ATOM	10520	C4	C	A	511	173.580	103.311	25.106	1.00	86.89	A16S
ATOM	10521	N4	C	A	511	173.373	101.995	25.176	1.00	86.89	A16S
ATOM	10522	C5	C	A	511	173.675	103.955	23.837	1.00	86.89	A16S
ATOM	10523	C2*	C	A	511	174.941	108.015	23.767	1.00	76.46	A16S
ATOM	10524	O2*	C	A	511	176.327	107.742	23.782	1.00	76.46	A16S
ATOM	10525	C3*	C	A	511	174.594	109.489	23.949	1.00	76.46	A16S
ATOM	10526	O3*	C	A	511	175.478	110.047	24.925	1.00	76.46	A16S
ATOM	10527	P	U	A	512	176.679	111.020	24.477	1.00	88.49	A16S
ATOM	10528	O1P	U	A	512	176.152	112.406	24.637	1.00	89.23	A16S
ATOM	10529	O2P	U	A	512	177.206	110.580	23.156	1.00	89.23	A16S
ATOM	10530	O5*	U	A	512	177.805	110.751	25.581	1.00	88.49	A16S
ATOM	10531	C5*	U	A	512	178.724	109.623	25.485	1.00	88.49	A16S
ATOM	10532	C4*	U	A	512	178.909	108.975	26.848	1.00	88.49	A16S
ATOM	10533	O4*	U	A	512	177.729	108.194	27.166	1.00	88.49	A16S
ATOM	10534	C1*	U	A	512	178.095	107.055	27.925	1.00	88.49	A16S
ATOM	10535	N1	U	A	512	177.681	105.851	27.190	1.00	89.23	A16S
ATOM	10536	C6	U	A	512	177.413	105.896	25.845	1.00	89.23	A16S
ATOM	10537	C2	U	A	512	177.574	104.663	27.899	1.00	89.23	A16S
ATOM	10538	O2	U	A	512	177.801	104.576	29.096	1.00	89.23	A16S
ATOM	10539	N3	U	A	512	177.193	103.579	27.153	1.00	89.23	A16S
ATOM	10540	C4	U	A	512	176.915	103.558	25.803	1.00	89.23	A16S
ATOM	10541	O4	U	A	512	176.617	102.491	25.262	1.00	89.23	A16S
ATOM	10542	C5	U	A	512	177.044	104.823	25.148	1.00	89.23	A16S



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ATOM	10543	C2* U	A 512	179.604	107.103	28.158	1.00	88.49	A16S
ATOM	10544	O2* U	A 512	179.862	107.636	29.445	1.00	88.49	A16S
ATOM	10545	C3* U	A 512	180.068	107.991	27.006	1.00	88.49	A16S
ATOM	10546	O3* U	A 512	181.290	108.669	27.330	1.00	88.49	A16S
ATOM	10547	P C	A 513	182.711	108.004	26.957	1.00	87.79	A16S
ATOM	10548	O1P C	A 513	183.755	109.007	27.287	1.00	102.51	A16S
ATOM	10549	O2P C	A 513	182.632	107.457	25.578	1.00	102.51	A16S
ATOM	10550	O5* C	A 513	182.849	106.787	27.976	1.00	87.79	A16S
ATOM	10551	C5* C	A 513	183.111	107.017	29.366	1.00	87.79	A16S
ATOM	10552	C4* C	A 513	183.262	105.704	30.089	1.00	87.79	A16S
ATOM	10553	O4* C	A 513	181.989	105.013	30.088	1.00	87.79	A16S
ATOM	10554	C1* C	A 513	182.209	103.612	30.005	1.00	87.79	A16S
ATOM	10555	N1 C	A 513	181.527	103.082	28.807	1.00	102.51	A16S
ATOM	10556	C6 C	A 513	181.185	103.899	27.763	1.00	102.51	A16S
ATOM	10557	C2 C	A 513	181.229	101.712	28.760	1.00	102.51	A16S
ATOM	10558	O2 C	A 513	181.579	100.982	29.708	1.00	102.51	A16S
ATOM	10559	N3 C	A 513	180.577	101.218	27.685	1.00	102.51	A16S
ATOM	10560	C4 C	A 513	180.230	102.028	26.683	1.00	102.51	A16S
ATOM	10561	N4 C	A 513	179.565	101.498	25.655	1.00	102.51	A16S
ATOM	10562	C5 C	A 513	180.543	103.419	26.694	1.00	102.51	A16S
ATOM	10563	C2* C	A 513	183.717	103.364	29.971	1.00	87.79	A16S
ATOM	10564	O2* C	A 513	184.177	103.004	31.259	1.00	87.79	A16S
ATOM	10565	C3* C	A 513	184.238	104.708	29.473	1.00	87.79	A16S
ATOM	10566	O3* C	A 513	185.586	104.924	29.866	1.00	87.79	A16S
ATOM	10567	P C	A 514	186.776	104.324	28.967	1.00	90.96	A16S
ATOM	10568	O1P C	A 514	188.052	104.769	29.590	1.00	97.17	A16S
ATOM	10569	O2P C	A 514	186.488	104.687	27.555	1.00	97.17	A16S
ATOM	10570	O5* C	A 514	186.637	102.741	29.146	1.00	90.96	A16S
ATOM	10571	C5* C	A 514	186.956	102.116	30.411	1.00	90.96	A16S
ATOM	10572	C4* C	A 514	186.599	100.642	30.400	1.00	90.96	A16S
ATOM	10573	O4* C	A 514	185.180	100.495	30.153	1.00	90.96	A16S
ATOM	10574	C1* C	A 514	184.943	99.303	29.427	1.00	90.96	A16S
ATOM	10575	N1 C	A 514	184.294	99.642	28.149	1.00	97.17	A16S
ATOM	10576	C6 C	A 514	184.223	100.932	27.701	1.00	97.17	A16S
ATOM	10577	C2 C	A 514	183.755	98.607	27.391	1.00	97.17	A16S
ATOM	10578	O2 C	A 514	183.834	97.449	27.828	1.00	97.17	A16S
ATOM	10579	N3 C	A 514	183.166	98.888	26.205	1.00	97.17	A16S
ATOM	10580	C4 C	A 514	183.112	100.146	25.770	1.00	97.17	A16S
ATOM	10581	N4 C	A 514	182.543	100.373	24.586	1.00	97.17	A16S
ATOM	10582	C5 C	A 514	183.645	101.226	26.528	1.00	97.17	A16S
ATOM	10583	C2* C	A 514	186.284	98.607	29.213	1.00	90.96	A16S
ATOM	10584	O2* C	A 514	186.454	97.625	30.207	1.00	90.96	A16S
ATOM	10585	C3* C	A 514	187.261	99.767	29.348	1.00	90.96	A16S
ATOM	10586	O3* C	A 514	188.543	99.308	29.757	1.00	90.96	A16S
ATOM	10587	P G	A 515	189.659	98.965	28.642	1.00	91.67	A16S
ATOM	10588	O1P G	A 515	190.955	98.755	29.340	1.00	100.33	A16S
ATOM	10589	O2P G	A 515	189.568	99.994	27.563	1.00	100.33	A16S
ATOM	10590	O5* G	A 515	189.205	97.551	28.057	1.00	91.67	A16S
ATOM	10591	C5* G	A 515	189.331	96.356	28.843	1.00	91.67	A16S
ATOM	10592	C4* G	A 515	188.758	95.179	28.098	1.00	91.67	A16S
ATOM	10593	O4* G	A 515	187.341	95.395	27.886	1.00	91.67	A16S
ATOM	10594	C1* G	A 515	186.961	94.876	26.623	1.00	91.67	A16S
ATOM	10595	N9 G	A 515	186.553	95.997	25.788	1.00	100.33	A16S
ATOM	10596	C4 G	A 515	185.798	95.932	24.647	1.00	100.33	A16S
ATOM	10597	N3 G	A 515	185.264	94.815	24.116	1.00	100.33	A16S
ATOM	10598	C2 G	A 515	184.606	95.068	23.003	1.00	100.33	A16S
ATOM	10599	N2 G	A 515	184.015	94.062	22.343	1.00	100.33	A16S
ATOM	10600	N1 G	A 515	184.480	96.326	22.458	1.00	100.33	A16S
ATOM	10601	C6 G	A 515	185.024	97.491	22.996	1.00	100.33	A16S
ATOM	10602	O6 G	A 515	184.859	98.582	22.429	1.00	100.33	A16S
ATOM	10603	C5 G	A 515	185.728	97.228	24.181	1.00	100.33	A16S
ATOM	10604	N7 G	A 515	186.409	98.093	25.023	1.00	100.33	A16S
ATOM	10605	C8 G	A 515	186.875	97.321	25.965	1.00	100.33	A16S
ATOM	10606	C2* G	A 515	188.186	94.192	26.017	1.00	91.67	A16S
ATOM	10607	O2* G	A 515	188.181	92.809	26.313	1.00	91.67	A16S
ATOM	10608	C3* G	A 515	189.320	94.936	26.706	1.00	91.67	A16S
ATOM	10609	O3* G	A 515	190.512	94.166	26.725	1.00	91.67	A16S
ATOM	10610	P U	A 516	191.653	94.447	25.626	1.00	85.86	A16S
ATOM	10611	O1P U	A 516	192.801	93.546	25.915	1.00	105.12	A16S
ATOM	10612	O2P U	A 516	191.868	95.921	25.532	1.00	105.12	A16S
ATOM	10613	O5* U	A 516	190.996	93.983	24.251	1.00	85.86	A16S
ATOM	10614	C5* U	A 516	190.416	92.677	24.100	1.00	85.86	A16S
ATOM	10615	C4* U	A 516	189.640	92.617	22.812	1.00	85.86	A16S
ATOM	10616	O4* U	A 516	188.555	93.573	22.874	1.00	85.86	A16S
ATOM	10617	C1* U	A 516	188.309	94.098	21.584	1.00	85.86	A16S
ATOM	10618	N1 U	A 516	188.236	95.572	21.661	1.00	105.12	A16S
ATOM	10619	C6 U	A 516	188.763	96.270	22.728	1.00	105.12	A16S



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ATOM	10620	C2	U	A	516	187.591	96.248	20.628	1.00105.12	A16S
ATOM	10621	O2	U	A	516	187.134	95.686	19.644	1.00105.12	A16S
ATOM	10622	N3	U	A	516	187.504	97.612	20.788	1.00105.12	A16S
ATOM	10623	C4	U	A	516	187.986	98.360	21.838	1.00105.12	A16S
ATOM	10624	O4	U	A	516	187.769	99.572	21.867	1.00105.12	A16S
ATOM	10625	C5	U	A	516	188.662	97.603	22.846	1.00105.12	A16S
ATOM	10626	C2*	U	A	516	189.328	93.484	20.620	1.00 85.86	A16S
ATOM	10627	O2*	U	A	516	188.721	92.385	19.968	1.00 85.86	A16S
ATOM	10628	C3*	U	A	516	190.419	93.008	21.569	1.00 85.86	A16S
ATOM	10629	O3*	U	A	516	191.093	91.877	21.045	1.00 85.86	A16S
ATOM	10630	P	G	A	517	192.662	91.968	20.706	1.00 97.61	A16S
ATOM	10631	O1P	G	A	517	193.094	90.565	20.455	1.00 98.49	A16S
ATOM	10632	O2P	G	A	517	193.345	92.778	21.752	1.00 98.49	A16S
ATOM	10633	O5*	G	A	517	192.747	92.771	19.330	1.00 97.61	A16S
ATOM	10634	C5*	G	A	517	192.164	92.224	18.134	1.00 97.61	A16S
ATOM	10635	C4*	G	A	517	191.877	93.314	17.135	1.00 97.61	A16S
ATOM	10636	O4*	G	A	517	191.212	94.416	17.803	1.00 97.61	A16S
ATOM	10637	C1*	G	A	517	191.925	95.610	17.566	1.00 97.61	A16S
ATOM	10638	N9	G	A	517	191.835	96.445	18.755	1.00 98.49	A16S
ATOM	10639	C4	G	A	517	191.244	97.677	18.818	1.00 98.49	A16S
ATOM	10640	N3	G	A	517	190.670	98.328	17.785	1.00 98.49	A16S
ATOM	10641	C2	G	A	517	190.175	99.493	18.153	1.00 98.49	A16S
ATOM	10642	N2	G	A	517	189.593	100.280	17.240	1.00 98.49	A16S
ATOM	10643	N1	G	A	517	190.221	99.976	19.444	1.00 98.49	A16S
ATOM	10644	C6	G	A	517	190.803	99.319	20.528	1.00 98.49	A16S
ATOM	10645	O6	G	A	517	190.779	99.836	21.658	1.00 98.49	A16S
ATOM	10646	C5	G	A	517	191.358	98.072	20.137	1.00 98.49	A16S
ATOM	10647	N7	G	A	517	192.030	97.111	20.882	1.00 98.49	A16S
ATOM	10648	C8	G	A	517	192.296	96.165	20.022	1.00 98.49	A16S
ATOM	10649	C2*	G	A	517	193.343	95.203	17.184	1.00 97.61	A16S
ATOM	10650	O2*	G	A	517	193.938	96.220	16.396	1.00 97.61	A16S
ATOM	10651	C3*	G	A	517	193.079	93.912	16.419	1.00 97.61	A16S
ATOM	10652	O3*	G	A	517	192.614	94.249	15.128	1.00 97.61	A16S
ATOM	10653	P	C	A	518	193.471	93.861	13.842	1.00 90.29	A16S
ATOM	10654	O1P	C	A	518	194.482	92.860	14.262	1.00107.30	A16S
ATOM	10655	O2P	C	A	518	193.907	95.136	13.219	1.00107.30	A16S
ATOM	10656	O5*	C	A	518	192.410	93.140	12.894	1.00 90.29	A16S
ATOM	10657	C5*	C	A	518	191.219	93.822	12.473	1.00 90.29	A16S
ATOM	10658	C4*	C	A	518	190.778	93.335	11.113	1.00 90.29	A16S
ATOM	10659	O4*	C	A	518	189.691	94.189	10.688	1.00 90.29	A16S
ATOM	10660	C1*	C	A	518	189.731	94.352	9.286	1.00 90.29	A16S
ATOM	10661	N1	C	A	518	189.359	95.742	8.939	1.00107.30	A16S
ATOM	10662	C6	C	A	518	189.428	96.738	9.872	1.00107.30	A16S
ATOM	10663	C2	C	A	518	188.914	96.032	7.625	1.00107.30	A16S
ATOM	10664	O2	C	A	518	188.863	95.120	6.777	1.00107.30	A16S
ATOM	10665	N3	C	A	518	188.553	97.300	7.318	1.00107.30	A16S
ATOM	10666	C4	C	A	518	188.621	98.259	8.246	1.00107.30	A16S
ATOM	10667	N4	C	A	518	188.251	99.495	7.896	1.00107.30	A16S
ATOM	10668	C5	C	A	518	189.070	97.996	9.574	1.00107.30	A16S
ATOM	10669	C2*	C	A	518	191.066	93.822	8.747	1.00 90.29	A16S
ATOM	10670	O2*	C	A	518	190.857	92.769	7.833	1.00 90.29	A16S
ATOM	10671	C3*	C	A	518	191.834	93.459	10.020	1.00 90.29	A16S
ATOM	10672	O3*	C	A	518	192.718	92.302	9.927	1.00 90.29	A16S
ATOM	10673	P	C	A	519	192.130	90.777	9.768	1.00 81.94	A16S
ATOM	10674	O1P	C	A	519	193.305	89.878	9.594	1.00 82.74	A16S
ATOM	10675	O2P	C	A	519	191.025	90.689	8.789	1.00 82.74	A16S
ATOM	10676	O5*	C	A	519	191.532	90.451	11.211	1.00 81.94	A16S
ATOM	10677	C5*	C	A	519	190.611	89.363	11.422	1.00 81.94	A16S
ATOM	10678	C4*	C	A	519	190.661	88.936	12.865	1.00 81.94	A16S
ATOM	10679	O4*	C	A	519	190.785	90.110	13.694	1.00 81.94	A16S
ATOM	10680	C1*	C	A	519	190.221	89.842	14.961	1.00 81.94	A16S
ATOM	10681	N1	C	A	519	189.493	91.036	15.450	1.00 82.74	A16S
ATOM	10682	C6	C	A	519	189.289	92.119	14.639	1.00 82.74	A16S
ATOM	10683	C2	C	A	519	189.038	91.056	16.781	1.00 82.74	A16S
ATOM	10684	O2	C	A	519	189.203	90.050	17.490	1.00 82.74	A16S
ATOM	10685	N3	C	A	519	188.429	92.169	17.257	1.00 82.74	A16S
ATOM	10686	C4	C	A	519	188.255	93.226	16.461	1.00 82.74	A16S
ATOM	10687	N4	C	A	519	187.662	94.310	16.977	1.00 82.74	A16S
ATOM	10688	C5	C	A	519	188.683	93.223	15.098	1.00 82.74	A16S
ATOM	10689	C2*	C	A	519	189.471	88.506	14.901	1.00 81.94	A16S
ATOM	10690	O2*	C	A	519	190.190	87.555	15.657	1.00 81.94	A16S
ATOM	10691	C3*	C	A	519	189.443	88.200	13.400	1.00 81.94	A16S
ATOM	10692	O3*	C	A	519	189.590	86.798	13.175	1.00 81.94	A16S
ATOM	10693	P	A	A	520	188.289	85.871	12.987	1.00 79.52	A16S
ATOM	10694	O1P	A	A	520	188.706	84.430	12.964	1.00 81.79	A16S
ATOM	10695	O2P	A	A	520	187.537	86.449	11.833	1.00 81.79	A16S
ATOM	10696	O5*	A	A	520	187.435	86.115	14.311	1.00 79.52	A16S



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ATOM	10697	C5*	A	A	520	187.824	85.533	15.564	1.00	79.52	A16S
ATOM	10698	C4*	A	A	520	186.933	86.043	16.666	1.00	79.52	A16S
ATOM	10699	O4*	A	A	520	187.221	87.443	16.925	1.00	79.52	A16S
ATOM	10700	C1*	A	A	520	186.024	88.119	17.292	1.00	79.52	A16S
ATOM	10701	N9	A	A	520	185.836	89.278	16.404	1.00	81.79	A16S
ATOM	10702	C4	A	A	520	185.451	90.547	16.783	1.00	81.79	A16S
ATOM	10703	N3	A	A	520	185.146	90.975	18.020	1.00	81.79	A16S
ATOM	10704	C2	A	A	520	184.851	92.277	18.013	1.00	81.79	A16S
ATOM	10705	N1	A	A	520	184.828	93.137	16.989	1.00	81.79	A16S
ATOM	10706	C6	A	A	520	185.131	92.677	15.757	1.00	81.79	A16S
ATOM	10707	N6	A	A	520	185.109	93.539	14.737	1.00	81.79	A16S
ATOM	10708	C5	A	A	520	185.461	91.308	15.628	1.00	81.79	A16S
ATOM	10709	N7	A	A	520	185.818	90.534	14.534	1.00	81.79	A16S
ATOM	10710	C8	A	A	520	186.025	89.341	15.045	1.00	81.79	A16S
ATOM	10711	C2*	A	A	520	184.886	87.094	17.273	1.00	79.52	A16S
ATOM	10712	O2*	A	A	520	184.652	86.591	18.576	1.00	79.52	A16S
ATOM	10713	C3*	A	A	520	185.448	86.021	16.352	1.00	79.52	A16S
ATOM	10714	O3*	A	A	520	184.845	84.754	16.566	1.00	79.52	A16S
ATOM	10715	P	G	A	521	183.661	84.284	15.585	1.00	82.82	A16S
ATOM	10716	O1P	G	A	521	183.285	82.886	15.934	1.00	71.58	A16S
ATOM	10717	O2P	G	A	521	184.057	84.621	14.172	1.00	71.58	A16S
ATOM	10718	O5*	G	A	521	182.449	85.234	15.978	1.00	82.82	A16S
ATOM	10719	C5*	G	A	521	181.700	85.943	14.973	1.00	82.82	A16S
ATOM	10720	C4*	G	A	521	181.247	87.267	15.524	1.00	82.82	A16S
ATOM	10721	O4*	G	A	521	182.357	88.205	15.508	1.00	82.82	A16S
ATOM	10722	C1*	G	A	521	181.874	89.517	15.283	1.00	82.82	A16S
ATOM	10723	N9	G	A	521	182.398	89.988	14.006	1.00	71.58	A16S
ATOM	10724	C4	G	A	521	182.311	91.262	13.513	1.00	71.58	A16S
ATOM	10725	N3	G	A	521	181.779	92.318	14.153	1.00	71.58	A16S
ATOM	10726	C2	G	A	521	181.787	93.407	13.402	1.00	71.58	A16S
ATOM	10727	N2	G	A	521	181.303	94.565	13.893	1.00	71.58	A16S
ATOM	10728	N1	G	A	521	182.272	93.450	12.117	1.00	71.58	A16S
ATOM	10729	C6	G	A	521	182.827	92.373	11.437	1.00	71.58	A16S
ATOM	10730	O6	G	A	521	183.231	92.519	10.273	1.00	71.58	A16S
ATOM	10731	C5	G	A	521	182.835	91.201	12.240	1.00	71.58	A16S
ATOM	10732	N7	G	A	521	183.287	89.921	11.956	1.00	71.58	A16S
ATOM	10733	C8	G	A	521	183.018	89.239	13.035	1.00	71.58	A16S
ATOM	10734	C2*	G	A	521	180.350	89.425	15.213	1.00	82.82	A16S
ATOM	10735	O2*	G	A	521	179.815	89.683	16.498	1.00	82.82	A16S
ATOM	10736	C3*	G	A	521	180.155	87.983	14.758	1.00	82.82	A16S
ATOM	10737	O3*	G	A	521	178.871	87.458	15.066	1.00	82.82	A16S
ATOM	10738	P	C	A	522	177.688	87.580	13.987	1.00	66.93	A16S
ATOM	10739	O1P	C	A	522	176.441	86.965	14.541	1.00	86.19	A16S
ATOM	10740	O2P	C	A	522	178.191	87.150	12.659	1.00	86.19	A16S
ATOM	10741	O5*	C	A	522	177.458	89.147	13.873	1.00	66.93	A16S
ATOM	10742	C5*	C	A	522	177.086	89.915	15.020	1.00	66.93	A16S
ATOM	10743	C4*	C	A	522	176.654	91.300	14.603	1.00	66.93	A16S
ATOM	10744	O4*	C	A	522	177.790	92.062	14.131	1.00	66.93	A16S
ATOM	10745	C1*	C	A	522	177.354	92.988	13.157	1.00	66.93	A16S
ATOM	10746	N1	C	A	522	178.150	92.808	11.937	1.00	86.19	A16S
ATOM	10747	C6	C	A	522	178.579	91.571	11.541	1.00	86.19	A16S
ATOM	10748	C2	C	A	522	178.469	93.934	11.189	1.00	86.19	A16S
ATOM	10749	O2	C	A	522	178.051	95.045	11.571	1.00	86.19	A16S
ATOM	10750	N3	C	A	522	179.222	93.793	10.073	1.00	86.19	A16S
ATOM	10751	C4	C	A	522	179.646	92.586	9.703	1.00	86.19	A16S
ATOM	10752	N4	C	A	522	180.398	92.496	8.608	1.00	86.19	A16S
ATOM	10753	C5	C	A	522	179.321	91.418	10.441	1.00	86.19	A16S
ATOM	10754	C2*	C	A	522	175.853	92.797	12.948	1.00	66.93	A16S
ATOM	10755	O2*	C	A	522	175.183	93.760	13.730	1.00	66.93	A16S
ATOM	10756	C3*	C	A	522	175.634	91.386	13.478	1.00	66.93	A16S
ATOM	10757	O3*	C	A	522	174.313	91.214	13.981	1.00	66.93	A16S
ATOM	10758	P	A	A	523	173.250	90.338	13.150	1.00	73.83	A16S
ATOM	10759	O1P	A	A	523	172.014	90.328	13.971	1.00	94.07	A16S
ATOM	10760	O2P	A	A	523	173.875	89.038	12.741	1.00	94.07	A16S
ATOM	10761	O5*	A	A	523	172.984	91.227	11.857	1.00	73.83	A16S
ATOM	10762	C5*	A	A	523	172.657	92.623	11.993	1.00	73.83	A16S
ATOM	10763	C4*	A	A	523	172.843	93.346	10.678	1.00	73.83	A16S
ATOM	10764	O4*	A	A	523	174.246	93.574	10.386	1.00	73.83	A16S
ATOM	10765	C1*	A	A	523	174.470	93.453	8.990	1.00	73.83	A16S
ATOM	10766	N9	A	A	523	175.422	92.357	8.774	1.00	94.07	A16S
ATOM	10767	C4	A	A	523	176.406	92.291	7.813	1.00	94.07	A16S
ATOM	10768	N3	A	A	523	176.705	93.215	6.886	1.00	94.07	A16S
ATOM	10769	C2	A	A	523	177.710	92.800	6.117	1.00	94.07	A16S
ATOM	10770	N1	A	A	523	178.403	91.652	6.164	1.00	94.07	A16S
ATOM	10771	C6	A	A	523	178.083	90.741	7.105	1.00	94.07	A16S
ATOM	10772	N6	A	A	523	178.775	89.594	7.144	1.00	94.07	A16S
ATOM	10773	C5	A	A	523	177.028	91.063	7.990	1.00	94.07	A16S



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ATOM	10774	N7	A	A	523	176.454	90.372	9.049	1.00	94.07	A16S
ATOM	10775	C8	A	A	523	175.512	91.178	9.479	1.00	94.07	A16S
ATOM	10776	C2*	A	A	523	173.113	93.210	8.321	1.00	73.83	A16S
ATOM	10777	O2*	A	A	523	172.614	94.445	7.853	1.00	73.83	A16S
ATOM	10778	C3*	A	A	523	172.307	92.607	9.472	1.00	73.83	A16S
ATOM	10779	O3*	A	A	523	170.907	92.793	9.399	1.00	73.83	A16S
ATOM	10780	P	G	A	524	169.999	91.730	8.616	1.00	77.06	A16S
ATOM	10781	O1P	G	A	524	168.670	91.723	9.290	1.00	69.92	A16S
ATOM	10782	O2P	G	A	524	170.731	90.441	8.441	1.00	69.92	A16S
ATOM	10783	O5*	G	A	524	169.856	92.431	7.195	1.00	77.06	A16S
ATOM	10784	C5*	G	A	524	168.962	91.920	6.206	1.00	77.06	A16S
ATOM	10785	C4*	G	A	524	168.330	93.056	5.444	1.00	77.06	A16S
ATOM	10786	O4*	G	A	524	167.405	93.758	6.306	1.00	77.06	A16S
ATOM	10787	C1*	G	A	524	167.416	95.135	5.992	1.00	77.06	A16S
ATOM	10788	N9	G	A	524	167.738	95.871	7.211	1.00	69.92	A16S
ATOM	10789	C4	G	A	524	167.646	97.230	7.403	1.00	69.92	A16S
ATOM	10790	N3	G	A	524	167.263	98.130	6.487	1.00	69.92	A16S
ATOM	10791	C2	G	A	524	167.287	99.358	6.957	1.00	69.92	A16S
ATOM	10792	N2	G	A	524	166.966	100.375	6.147	1.00	69.92	A16S
ATOM	10793	N1	G	A	524	167.636	99.679	8.241	1.00	69.92	A16S
ATOM	10794	C6	G	A	524	168.030	98.768	9.207	1.00	69.92	A16S
ATOM	10795	O6	G	A	524	168.323	99.161	10.336	1.00	69.92	A16S
ATOM	10796	C5	G	A	524	168.030	97.445	8.704	1.00	69.92	A16S
ATOM	10797	N7	G	A	524	168.366	96.248	9.320	1.00	69.92	A16S
ATOM	10798	C8	G	A	524	168.177	95.344	8.399	1.00	69.92	A16S
ATOM	10799	C2*	G	A	524	168.387	95.348	4.825	1.00	77.06	A16S
ATOM	10800	O2*	G	A	524	167.656	95.385	3.610	1.00	77.06	A16S
ATOM	10801	C3*	G	A	524	169.288	94.121	4.938	1.00	77.06	A16S
ATOM	10802	O3*	G	A	524	169.863	93.731	3.692	1.00	77.06	A16S
ATOM	10803	P	C	A	525	171.430	93.983	3.418	1.00	85.07	A16S
ATOM	10804	O1P	C	A	525	171.831	93.060	2.313	1.00	69.14	A16S
ATOM	10805	O2P	C	A	525	172.176	93.959	4.716	1.00	69.14	A16S
ATOM	10806	O5*	C	A	525	171.468	95.467	2.845	1.00	85.07	A16S
ATOM	10807	C5*	C	A	525	170.789	95.793	1.616	1.00	85.07	A16S
ATOM	10808	C4*	C	A	525	170.569	97.287	1.510	1.00	85.07	A16S
ATOM	10809	O4*	C	A	525	169.662	97.723	2.549	1.00	85.07	A16S
ATOM	10810	C1*	C	A	525	170.048	99.006	3.002	1.00	85.07	A16S
ATOM	10811	N1	C	A	525	170.385	98.917	4.428	1.00	69.14	A16S
ATOM	10812	C6	C	A	525	170.661	97.717	5.019	1.00	69.14	A16S
ATOM	10813	C2	C	A	525	170.400	100.088	5.178	1.00	69.14	A16S
ATOM	10814	O2	C	A	525	170.195	101.178	4.598	1.00	69.14	A16S
ATOM	10815	N3	C	A	525	170.646	100.018	6.509	1.00	69.14	A16S
ATOM	10816	C4	C	A	525	170.886	98.840	7.082	1.00	69.14	A16S
ATOM	10817	N4	C	A	525	171.096	98.816	8.400	1.00	69.14	A16S
ATOM	10818	C5	C	A	525	170.915	97.634	6.331	1.00	69.14	A16S
ATOM	10819	C2*	C	A	525	171.227	99.475	2.158	1.00	85.07	A16S
ATOM	10820	O2*	C	A	525	170.723	100.274	1.109	1.00	85.07	A16S
ATOM	10821	C3*	C	A	525	171.806	98.151	1.690	1.00	85.07	A16S
ATOM	10822	O3*	C	A	525	172.529	98.272	0.479	1.00	85.07	A16S
ATOM	10823	P	C	A	526	174.134	98.234	0.513	1.00	74.89	A16S
ATOM	10824	O1P	C	A	526	174.583	98.125	-0.910	1.00	79.10	A16S
ATOM	10825	O2P	C	A	526	174.553	97.199	1.500	1.00	79.10	A16S
ATOM	10826	O5*	C	A	526	174.546	99.657	1.112	1.00	74.89	A16S
ATOM	10827	C5*	C	A	526	174.221	100.883	0.418	1.00	74.89	A16S
ATOM	10828	C4*	C	A	526	174.393	102.071	1.335	1.00	74.89	A16S
ATOM	10829	O4*	C	A	526	173.457	101.975	2.433	1.00	74.89	A16S
ATOM	10830	C1*	C	A	526	174.039	102.516	3.600	1.00	74.89	A16S
ATOM	10831	N1	C	A	526	174.033	101.490	4.648	1.00	79.10	A16S
ATOM	10832	C6	C	A	526	174.043	100.161	4.333	1.00	79.10	A16S
ATOM	10833	C2	C	A	526	174.028	101.897	5.985	1.00	79.10	A16S
ATOM	10834	O2	C	A	526	173.990	103.105	6.244	1.00	79.10	A16S
ATOM	10835	N3	C	A	526	174.054	100.966	6.962	1.00	79.10	A16S
ATOM	10836	C4	C	A	526	174.063	99.669	6.647	1.00	79.10	A16S
ATOM	10837	N4	C	A	526	174.074	98.773	7.652	1.00	79.10	A16S
ATOM	10838	C5	C	A	526	174.055	99.225	5.289	1.00	79.10	A16S
ATOM	10839	C2*	C	A	526	175.444	103.002	3.251	1.00	74.89	A16S
ATOM	10840	O2*	C	A	526	175.406	104.385	2.990	1.00	74.89	A16S
ATOM	10841	C3*	C	A	526	175.753	102.204	1.997	1.00	74.89	A16S
ATOM	10842	O3*	C	A	526	176.643	102.936	1.166	1.00	74.89	A16S
ATOM	10843	P	G	A	527	178.131	102.383	0.903	1.00	80.37	A16S
ATOM	10844	O1P	G	A	527	179.033	103.559	1.037	1.00	74.80	A16S
ATOM	10845	O2P	G	A	527	178.106	101.609	-0.380	1.00	74.80	A16S
ATOM	10846	O5*	G	A	527	178.417	101.385	2.116	1.00	80.37	A16S
ATOM	10847	C5*	G	A	527	179.419	101.685	3.113	1.00	80.37	A16S
ATOM	10848	C4*	G	A	527	178.773	101.776	4.467	1.00	80.37	A16S
ATOM	10849	O4*	G	A	527	177.796	100.713	4.542	1.00	80.37	A16S
ATOM	10850	C1*	G	A	527	177.769	100.180	5.847	1.00	80.37	A16S



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ATOM	10851	N9	G	A	527	178.291	98.816	5.785	1.00	74.80	A16S
ATOM	10852	C4	G	A	527	178.343	97.932	6.832	1.00	74.80	A16S
ATOM	10853	N3	G	A	527	177.893	98.165	8.081	1.00	74.80	A16S
ATOM	10854	C2	G	A	527	178.100	97.146	8.876	1.00	74.80	A16S
ATOM	10855	N2	G	A	527	177.714	97.220	10.151	1.00	74.80	A16S
ATOM	10856	N1	G	A	527	178.702	95.987	8.480	1.00	74.80	A16S
ATOM	10857	C6	G	A	527	179.179	95.725	7.203	1.00	74.80	A16S
ATOM	10858	O6	G	A	527	179.720	94.652	6.962	1.00	74.80	A16S
ATOM	10859	C5	G	A	527	178.958	96.807	6.334	1.00	74.80	A16S
ATOM	10860	N7	G	A	527	179.269	96.965	4.989	1.00	74.80	A16S
ATOM	10861	C8	G	A	527	178.852	98.168	4.703	1.00	74.80	A16S
ATOM	10862	C2*	G	A	527	178.654	101.076	6.712	1.00	80.37	A16S
ATOM	10863	O2*	G	A	527	177.890	102.151	7.215	1.00	80.37	A16S
ATOM	10864	C3*	G	A	527	179.658	101.575	5.692	1.00	80.37	A16S
ATOM	10865	O3*	G	A	527	180.305	102.755	6.161	1.00	80.37	A16S
ATOM	10866	P	C	A	528	181.789	102.650	6.810	1.00	84.75	A16S
ATOM	10867	O1P	C	A	528	182.211	104.025	7.216	1.00	73.18	A16S
ATOM	10868	O2P	C	A	528	182.653	101.857	5.891	1.00	73.18	A16S
ATOM	10869	O5*	C	A	528	181.601	101.789	8.137	1.00	84.75	A16S
ATOM	10870	C5*	C	A	528	180.884	102.336	9.232	1.00	84.75	A16S
ATOM	10871	C4*	C	A	528	181.002	101.461	10.447	1.00	84.75	A16S
ATOM	10872	O4*	C	A	528	180.292	100.212	10.257	1.00	84.75	A16S
ATOM	10873	C1*	C	A	528	180.802	99.253	11.168	1.00	84.75	A16S
ATOM	10874	N1	C	A	528	181.170	98.017	10.448	1.00	73.18	A16S
ATOM	10875	C6	C	A	528	181.635	98.050	9.162	1.00	73.18	A16S
ATOM	10876	C2	C	A	528	181.073	96.789	11.132	1.00	73.18	A16S
ATOM	10877	O2	C	A	528	180.560	96.764	12.273	1.00	73.18	A16S
ATOM	10878	N3	C	A	528	181.526	95.662	10.532	1.00	73.18	A16S
ATOM	10879	C4	C	A	528	182.025	95.719	9.299	1.00	73.18	A16S
ATOM	10880	N4	C	A	528	182.503	94.595	8.775	1.00	73.18	A16S
ATOM	10881	C5	C	A	528	182.069	96.935	8.555	1.00	73.18	A16S
ATOM	10882	C2*	C	A	528	182.016	99.880	11.860	1.00	84.75	A16S
ATOM	10883	O2*	C	A	528	181.632	100.382	13.131	1.00	84.75	A16S
ATOM	10884	C3*	C	A	528	182.375	101.009	10.902	1.00	84.75	A16S
ATOM	10885	O3*	C	A	528	183.107	102.017	11.578	1.00	84.75	A16S
ATOM	10886	P	G	A	529	184.717	101.935	11.616	1.00	78.70	A16S
ATOM	10887	O1P	G	A	529	185.156	102.923	12.645	1.00	86.01	A16S
ATOM	10888	O2P	G	A	529	185.236	102.047	10.220	1.00	86.01	A16S
ATOM	10889	O5*	G	A	529	185.043	100.466	12.166	1.00	78.70	A16S
ATOM	10890	C5*	G	A	529	184.899	100.177	13.569	1.00	78.70	A16S
ATOM	10891	C4*	G	A	529	185.586	98.884	13.951	1.00	78.70	A16S
ATOM	10892	O4*	G	A	529	184.839	97.742	13.470	1.00	78.70	A16S
ATOM	10893	C1*	G	A	529	185.716	96.643	13.285	1.00	78.70	A16S
ATOM	10894	N9	G	A	529	185.647	96.231	11.886	1.00	86.01	A16S
ATOM	10895	C4	G	A	529	185.866	94.966	11.381	1.00	86.01	A16S
ATOM	10896	N3	G	A	529	186.136	93.853	12.099	1.00	86.01	A16S
ATOM	10897	C2	G	A	529	186.323	92.792	11.319	1.00	86.01	A16S
ATOM	10898	N2	G	A	529	186.585	91.588	11.860	1.00	86.01	A16S
ATOM	10899	N1	G	A	529	186.264	92.830	9.951	1.00	86.01	A16S
ATOM	10900	C6	G	A	529	185.993	93.963	9.195	1.00	86.01	A16S
ATOM	10901	O6	G	A	529	185.981	93.890	7.966	1.00	86.01	A16S
ATOM	10902	C5	G	A	529	185.771	95.100	10.013	1.00	86.01	A16S
ATOM	10903	N7	G	A	529	185.462	96.408	9.665	1.00	86.01	A16S
ATOM	10904	C8	G	A	529	185.392	97.040	10.804	1.00	86.01	A16S
ATOM	10905	C2*	G	A	529	187.121	97.118	13.665	1.00	78.70	A16S
ATOM	10906	O2*	G	A	529	187.383	96.768	15.011	1.00	78.70	A16S
ATOM	10907	C3*	G	A	529	187.002	98.627	13.479	1.00	78.70	A16S
ATOM	10908	O3*	G	A	529	187.967	99.336	14.240	1.00	78.70	A16S
ATOM	10909	P	G	A	530	189.117	100.168	13.481	1.00	101.44	A16S
ATOM	10910	O1P	G	A	530	189.834	100.925	14.527	1.00	99.84	A16S
ATOM	10911	O2P	G	A	530	188.548	100.893	12.305	1.00	99.84	A16S
ATOM	10912	O5*	G	A	530	190.092	99.044	12.922	1.00	101.44	A16S
ATOM	10913	C5*	G	A	530	190.676	98.070	13.802	1.00	101.44	A16S
ATOM	10914	C4*	G	A	530	192.085	97.747	13.361	1.00	101.44	A16S
ATOM	10915	O4*	G	A	530	192.059	97.104	12.070	1.00	101.44	A16S
ATOM	10916	C1*	G	A	530	193.242	97.424	11.369	1.00	101.44	A16S
ATOM	10917	N9	G	A	530	192.924	97.678	9.964	1.00	99.84	A16S
ATOM	10918	C4	G	A	530	192.325	98.787	9.406	1.00	99.84	A16S
ATOM	10919	N3	G	A	530	191.912	99.887	10.066	1.00	99.84	A16S
ATOM	10920	C2	G	A	530	191.346	100.767	9.246	1.00	99.84	A16S
ATOM	10921	N2	G	A	530	190.846	101.917	9.733	1.00	99.84	A16S
ATOM	10922	N1	G	A	530	191.221	100.583	7.888	1.00	99.84	A16S
ATOM	10923	C6	G	A	530	191.651	99.461	7.191	1.00	99.84	A16S
ATOM	10924	O6	G	A	530	191.502	99.398	5.966	1.00	99.84	A16S
ATOM	10925	C5	G	A	530	192.234	98.509	8.053	1.00	99.84	A16S
ATOM	10926	N7	G	A	530	192.763	97.259	7.769	1.00	99.84	A16S
ATOM	10927	C8	G	A	530	193.164	96.807	8.924	1.00	99.84	A16S



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ATOM	10928	C2*	G	A	530	194.043	98.453	12.171	1.00101.44	A16S
ATOM	10929	O2*	G	A	530	195.118	97.775	12.795	1.00101.44	A16S
ATOM	10930	C3*	G	A	530	193.015	98.941	13.192	1.00101.44	A16S
ATOM	10931	O3*	G	A	530	193.606	99.208	14.465	1.00101.44	A16S
ATOM	10932	P	U	A	531	194.724	100.350	14.619	1.00 94.11	A16S
ATOM	10933	O1P	U	A	531	194.488	101.398	13.580	1.00 96.65	A16S
ATOM	10934	O2P	U	A	531	196.044	99.672	14.707	1.00 96.65	A16S
ATOM	10935	O5*	U	A	531	194.426	100.966	16.048	1.00 94.11	A16S
ATOM	10936	C5*	U	A	531	193.127	101.457	16.360	1.00 94.11	A16S
ATOM	10937	C4*	U	A	531	193.106	102.001	17.757	1.00 94.11	A16S
ATOM	10938	O4*	U	A	531	193.117	100.914	18.723	1.00 94.11	A16S
ATOM	10939	C1*	U	A	531	194.111	101.164	19.687	1.00 94.11	A16S
ATOM	10940	N1	U	A	531	194.618	99.888	20.214	1.00 96.65	A16S
ATOM	10941	C6	U	A	531	195.212	98.946	19.400	1.00 96.65	A16S
ATOM	10942	C2	U	A	531	194.478	99.664	21.587	1.00 96.65	A16S
ATOM	10943	O2	U	A	531	193.953	100.467	22.357	1.00 96.65	A16S
ATOM	10944	N3	U	A	531	194.973	98.463	22.029	1.00 96.65	A16S
ATOM	10945	C4	U	A	531	195.578	97.483	21.273	1.00 96.65	A16S
ATOM	10946	O4	U	A	531	195.968	96.451	21.831	1.00 96.65	A16S
ATOM	10947	C5	U	A	531	195.684	97.784	19.869	1.00 96.65	A16S
ATOM	10948	C2*	U	A	531	195.150	102.040	18.995	1.00 94.11	A16S
ATOM	10949	O2*	U	A	531	195.869	102.774	19.966	1.00 94.11	A16S
ATOM	10950	C3*	U	A	531	194.271	102.917	18.101	1.00 94.11	A16S
ATOM	10951	O3*	U	A	531	193.779	104.009	18.840	1.00 94.11	A16S
ATOM	10952	P	A	A	532	193.463	105.394	18.103	1.00115.48	A16S
ATOM	10953	O1P	A	A	532	192.853	105.075	16.787	1.00191.38	A16S
ATOM	10954	O2P	A	A	532	194.678	106.248	18.161	1.00191.38	A16S
ATOM	10955	O5*	A	A	532	192.343	106.018	19.051	1.00115.48	A16S
ATOM	10956	C5*	A	A	532	192.279	105.630	20.449	1.00115.48	A16S
ATOM	10957	C4*	A	A	532	190.883	105.811	21.017	1.00115.48	A16S
ATOM	10958	O4*	A	A	532	190.629	107.196	21.339	1.00115.48	A16S
ATOM	10959	C1*	A	A	532	189.233	107.407	21.378	1.00115.48	A16S
ATOM	10960	N9	A	A	532	188.919	108.710	20.778	1.00191.38	A16S
ATOM	10961	C4	A	A	532	187.671	109.166	20.412	1.00191.38	A16S
ATOM	10962	N3	A	A	532	186.497	108.512	20.509	1.00191.38	A16S
ATOM	10963	C2	A	A	532	185.494	109.269	20.061	1.00191.38	A16S
ATOM	10964	N1	A	A	532	185.527	110.513	19.563	1.00191.38	A16S
ATOM	10965	C6	A	A	532	186.721	111.145	19.478	1.00191.38	A16S
ATOM	10966	N6	A	A	532	186.753	112.385	18.982	1.00191.38	A16S
ATOM	10967	C5	A	A	532	187.867	110.448	19.924	1.00191.38	A16S
ATOM	10968	N7	A	A	532	189.212	110.795	19.977	1.00191.38	A16S
ATOM	10969	C8	A	A	532	189.791	109.734	20.486	1.00191.38	A16S
ATOM	10970	C2*	A	A	532	188.533	106.165	20.800	1.00115.48	A16S
ATOM	10971	O2*	A	A	532	187.884	105.454	21.834	1.00115.48	A16S
ATOM	10972	C3*	A	A	532	189.689	105.375	20.179	1.00115.48	A16S
ATOM	10973	O3*	A	A	532	189.530	103.962	20.334	1.00115.48	A16S
ATOM	10974	P	A	A	533	188.234	103.199	19.751	1.00 92.69	A16S
ATOM	10975	O1P	A	A	533	187.349	102.956	20.916	1.00 83.46	A16S
ATOM	10976	O2P	A	A	533	188.706	102.051	18.949	1.00 83.46	A16S
ATOM	10977	O5*	A	A	533	187.519	104.216	18.750	1.00 92.69	A16S
ATOM	10978	C5*	A	A	533	186.327	104.910	19.159	1.00 92.69	A16S
ATOM	10979	C4*	A	A	533	185.114	104.422	18.397	1.00 92.69	A16S
ATOM	10980	O4*	A	A	533	185.356	103.135	17.790	1.00 92.69	A16S
ATOM	10981	C1*	A	A	533	184.162	102.381	17.782	1.00 92.69	A16S
ATOM	10982	N9	A	A	533	184.486	100.974	18.055	1.00 83.46	A16S
ATOM	10983	C4	A	A	533	184.041	99.877	17.341	1.00 83.46	A16S
ATOM	10984	N3	A	A	533	183.173	99.862	16.318	1.00 83.46	A16S
ATOM	10985	C2	A	A	533	182.998	98.616	15.861	1.00 83.46	A16S
ATOM	10986	N1	A	A	533	183.553	97.473	16.270	1.00 83.46	A16S
ATOM	10987	C6	A	A	533	184.423	97.514	17.290	1.00 83.46	A16S
ATOM	10988	N6	A	A	533	184.978	96.367	17.681	1.00 83.46	A16S
ATOM	10989	C5	A	A	533	184.693	98.778	17.879	1.00 83.46	A16S
ATOM	10990	N7	A	A	533	185.504	99.165	18.938	1.00 83.46	A16S
ATOM	10991	C8	A	A	533	185.336	100.470	19.010	1.00 83.46	A16S
ATOM	10992	C2*	A	A	533	183.088	103.120	18.596	1.00 92.69	A16S
ATOM	10993	O2*	A	A	533	182.078	103.560	17.713	1.00 92.69	A16S
ATOM	10994	C3*	A	A	533	183.897	104.228	19.288	1.00 92.69	A16S
ATOM	10995	O3*	A	A	533	183.318	105.525	19.657	1.00 92.69	A16S
ATOM	10996	P	U	A	534	182.080	106.195	18.841	1.00100.98	A16S
ATOM	10997	O1P	U	A	534	182.296	106.141	17.369	1.00 89.87	A16S
ATOM	10998	O2P	U	A	534	181.852	107.514	19.487	1.00 89.87	A16S
ATOM	10999	O5*	U	A	534	180.824	105.293	19.215	1.00100.98	A16S
ATOM	11000	C5*	U	A	534	180.649	104.824	20.561	1.00100.98	A16S
ATOM	11001	C4*	U	A	534	179.189	104.771	20.913	1.00100.98	A16S
ATOM	11002	O4*	U	A	534	178.634	106.106	20.931	1.00100.98	A16S
ATOM	11003	C1*	U	A	534	177.279	106.051	20.535	1.00100.98	A16S
ATOM	11004	N1	U	A	534	177.061	106.981	19.418	1.00 89.87	A16S



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ATOM	11005	C6	U	A	534	178.074	107.347	18.555	1.00	89.87	A16S
ATOM	11006	C2	U	A	534	175.783	107.469	19.257	1.00	89.87	A16S
ATOM	11007	O2	U	A	534	174.866	107.182	20.018	1.00	89.87	A16S
ATOM	11008	N3	U	A	534	175.611	108.307	18.179	1.00	89.87	A16S
ATOM	11009	C4	U	A	534	176.570	108.711	17.271	1.00	89.87	A16S
ATOM	11010	O4	U	A	534	176.253	109.471	16.345	1.00	89.87	A16S
ATOM	11011	C5	U	A	534	177.879	108.174	17.516	1.00	89.87	A16S
ATOM	11012	C2*	U	A	534	176.938	104.597	20.192	1.00	100.98	A16S
ATOM	11013	O2*	U	A	534	176.293	103.973	21.286	1.00	100.98	A16S
ATOM	11014	C3*	U	A	534	178.314	103.998	19.947	1.00	100.98	A16S
ATOM	11015	O3*	U	A	534	178.316	102.631	20.295	1.00	100.98	A16S
ATOM	11016	P	A	A	535	179.043	101.574	19.342	1.00	76.04	A16S
ATOM	11017	O1P	A	A	535	178.828	100.262	20.023	1.00	77.06	A16S
ATOM	11018	O2P	A	A	535	180.419	102.043	19.068	1.00	77.06	A16S
ATOM	11019	O5*	A	A	535	178.222	101.638	17.975	1.00	76.04	A16S
ATOM	11020	C5*	A	A	535	176.890	101.096	17.906	1.00	76.04	A16S
ATOM	11021	C4*	A	A	535	176.759	100.125	16.750	1.00	76.04	A16S
ATOM	11022	O4*	A	A	535	176.548	100.818	15.499	1.00	76.04	A16S
ATOM	11023	C1*	A	A	535	177.442	100.329	14.535	1.00	76.04	A16S
ATOM	11024	N9	A	A	535	177.780	101.423	13.635	1.00	77.06	A16S
ATOM	11025	C4	A	A	535	177.592	101.407	12.273	1.00	77.06	A16S
ATOM	11026	N3	A	A	535	177.134	100.385	11.526	1.00	77.06	A16S
ATOM	11027	C2	A	A	535	177.062	100.735	10.250	1.00	77.06	A16S
ATOM	11028	N1	A	A	535	177.360	101.902	9.677	1.00	77.06	A16S
ATOM	11029	C6	A	A	535	177.809	102.911	10.451	1.00	77.06	A16S
ATOM	11030	N6	A	A	535	178.083	104.079	9.872	1.00	77.06	A16S
ATOM	11031	C5	A	A	535	177.950	102.663	11.826	1.00	77.06	A16S
ATOM	11032	N7	A	A	535	178.396	103.449	12.882	1.00	77.06	A16S
ATOM	11033	C8	A	A	535	178.286	102.663	13.929	1.00	77.06	A16S
ATOM	11034	C2*	A	A	535	178.606	99.715	15.296	1.00	76.04	A16S
ATOM	11035	O2*	A	A	535	179.186	98.717	14.482	1.00	76.04	A16S
ATOM	11036	C3*	A	A	535	177.893	99.142	16.519	1.00	76.04	A16S
ATOM	11037	O3*	A	A	535	177.289	97.910	16.175	1.00	76.04	A16S
ATOM	11038	P	C	A	536	176.833	96.902	17.336	1.00	78.89	A16S
ATOM	11039	O1P	C	A	536	175.597	96.244	16.841	1.00	94.34	A16S
ATOM	11040	O2P	C	A	536	176.810	97.626	18.647	1.00	94.34	A16S
ATOM	11041	O5*	C	A	536	177.995	95.809	17.365	1.00	78.89	A16S
ATOM	11042	C5*	C	A	536	178.036	94.721	16.404	1.00	78.89	A16S
ATOM	11043	C4*	C	A	536	179.182	93.787	16.727	1.00	78.89	A16S
ATOM	11044	O4*	C	A	536	180.423	94.513	16.576	1.00	78.89	A16S
ATOM	11045	C1*	C	A	536	181.320	94.158	17.611	1.00	78.89	A16S
ATOM	11046	N1	C	A	536	181.675	95.393	18.336	1.00	94.34	A16S
ATOM	11047	C6	C	A	536	181.026	96.564	18.060	1.00	94.34	A16S
ATOM	11048	C2	C	A	536	182.686	95.358	19.305	1.00	94.34	A16S
ATOM	11049	O2	C	A	536	183.265	94.286	19.538	1.00	94.34	A16S
ATOM	11050	N3	C	A	536	183.008	96.495	19.960	1.00	94.34	A16S
ATOM	11051	C4	C	A	536	182.366	97.634	19.677	1.00	94.34	A16S
ATOM	11052	N4	C	A	536	182.718	98.741	20.340	1.00	94.34	A16S
ATOM	11053	C5	C	A	536	181.336	97.693	18.699	1.00	94.34	A16S
ATOM	11054	C2*	C	A	536	180.665	93.062	18.461	1.00	78.89	A16S
ATOM	11055	O2*	C	A	536	181.152	91.792	18.077	1.00	78.89	A16S
ATOM	11056	C3*	C	A	536	179.185	93.267	18.156	1.00	78.89	A16S
ATOM	11057	O3*	C	A	536	178.439	92.060	18.239	1.00	78.89	A16S
ATOM	11058	P	G	A	537	177.165	91.979	19.210	1.00	80.21	A16S
ATOM	11059	O1P	G	A	537	176.366	90.805	18.791	1.00	92.16	A16S
ATOM	11060	O2P	G	A	537	176.525	93.317	19.260	1.00	92.16	A16S
ATOM	11061	O5*	G	A	537	177.798	91.673	20.637	1.00	80.21	A16S
ATOM	11062	C5*	G	A	537	178.414	90.396	20.914	1.00	80.21	A16S
ATOM	11063	C4*	G	A	537	179.256	90.467	22.175	1.00	80.21	A16S
ATOM	11064	O4*	G	A	537	180.452	91.251	21.935	1.00	80.21	A16S
ATOM	11065	C1*	G	A	537	180.812	91.940	23.120	1.00	80.21	A16S
ATOM	11066	N9	G	A	537	180.829	93.370	22.849	1.00	92.16	A16S
ATOM	11067	C4	G	A	537	181.339	94.320	23.681	1.00	92.16	A16S
ATOM	11068	N3	G	A	537	181.925	94.083	24.869	1.00	92.16	A16S
ATOM	11069	C2	G	A	537	182.337	95.192	25.444	1.00	92.16	A16S
ATOM	11070	N2	G	A	537	182.965	95.125	26.626	1.00	92.16	A16S
ATOM	11071	N1	G	A	537	182.170	96.445	24.900	1.00	92.16	A16S
ATOM	11072	C6	G	A	537	181.561	96.712	23.675	1.00	92.16	A16S
ATOM	11073	O6	G	A	537	181.457	97.880	23.276	1.00	92.16	A16S
ATOM	11074	C5	G	A	537	181.129	95.522	23.043	1.00	92.16	A16S
ATOM	11075	N7	G	A	537	180.500	95.329	21.824	1.00	92.16	A16S
ATOM	11076	C8	G	A	537	180.343	94.035	21.749	1.00	92.16	A16S
ATOM	11077	C2*	G	A	537	179.795	91.593	24.209	1.00	80.21	A16S
ATOM	11078	O2*	G	A	537	180.309	90.599	25.074	1.00	80.21	A16S
ATOM	11079	C3*	G	A	537	178.605	91.129	23.382	1.00	80.21	A16S
ATOM	11080	O3*	G	A	537	177.765	90.251	24.108	1.00	80.21	A16S
ATOM	11081	P	G	A	538	176.488	90.848	24.866	1.00	97.35	A16S



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ATOM	11082	O1P	G	A	538	175.578	89.713	25.202	1.00	84.90	A16S
ATOM	11083	O2P	G	A	538	175.989	91.975	24.035	1.00	84.90	A16S
ATOM	11084	O5*	G	A	538	177.098	91.440	26.215	1.00	97.35	A16S
ATOM	11085	C5*	G	A	538	177.594	90.559	27.251	1.00	97.35	A16S
ATOM	11086	C4*	G	A	538	178.167	91.357	28.404	1.00	97.35	A16S
ATOM	11087	O4*	G	A	538	179.305	92.129	27.939	1.00	97.35	A16S
ATOM	11088	C1*	G	A	538	179.350	93.370	28.617	1.00	97.35	A16S
ATOM	11089	N9	G	A	538	179.140	94.416	27.630	1.00	84.90	A16S
ATOM	11090	C4	G	A	538	179.570	95.713	27.701	1.00	84.90	A16S
ATOM	11091	N3	G	A	538	180.279	96.257	28.707	1.00	84.90	A16S
ATOM	11092	C2	G	A	538	180.556	97.528	28.480	1.00	84.90	A16S
ATOM	11093	N2	G	A	538	181.282	98.226	29.366	1.00	84.90	A16S
ATOM	11094	N1	G	A	538	180.150	98.212	27.364	1.00	84.90	A16S
ATOM	11095	C6	G	A	538	179.411	97.670	26.319	1.00	84.90	A16S
ATOM	11096	O6	G	A	538	179.088	98.377	25.352	1.00	84.90	A16S
ATOM	11097	C5	G	A	538	179.126	96.307	26.543	1.00	84.90	A16S
ATOM	11098	N7	G	A	538	178.429	95.402	25.761	1.00	84.90	A16S
ATOM	11099	C8	G	A	538	178.462	94.295	26.446	1.00	84.90	A16S
ATOM	11100	C2*	G	A	538	178.229	93.376	29.652	1.00	97.35	A16S
ATOM	11101	O2*	G	A	538	178.732	92.929	30.891	1.00	97.35	A16S
ATOM	11102	C3*	G	A	538	177.248	92.388	29.042	1.00	97.35	A16S
ATOM	11103	O3*	G	A	538	176.387	91.834	30.026	1.00	97.35	A16S
ATOM	11104	P	A	A	539	175.049	92.625	30.429	1.00	92.67	A16S
ATOM	11105	O1P	A	A	539	174.215	91.759	31.304	1.00	94.07	A16S
ATOM	11106	O2P	A	A	539	174.468	93.184	29.175	1.00	94.07	A16S
ATOM	11107	O5*	A	A	539	175.581	93.844	31.299	1.00	92.67	A16S
ATOM	11108	C5*	A	A	539	176.375	93.619	32.470	1.00	92.67	A16S
ATOM	11109	C4*	A	A	539	177.006	94.912	32.917	1.00	92.67	A16S
ATOM	11110	O4*	A	A	539	177.910	95.400	31.888	1.00	92.67	A16S
ATOM	11111	C1*	A	A	539	177.878	96.816	31.853	1.00	92.67	A16S
ATOM	11112	N9	A	A	539	177.434	97.241	30.525	1.00	94.07	A16S
ATOM	11113	C4	A	A	539	177.588	98.497	29.992	1.00	94.07	A16S
ATOM	11114	N3	A	A	539	178.181	99.557	30.564	1.00	94.07	A16S
ATOM	11115	C2	A	A	539	178.136	100.611	29.751	1.00	94.07	A16S
ATOM	11116	N1	A	A	539	177.608	100.715	28.525	1.00	94.07	A16S
ATOM	11117	C6	A	A	539	177.021	99.631	27.985	1.00	94.07	A16S
ATOM	11118	N6	A	A	539	176.498	99.737	26.771	1.00	94.07	A16S
ATOM	11119	C5	A	A	539	176.997	98.453	28.743	1.00	94.07	A16S
ATOM	11120	N7	A	A	539	176.483	97.191	28.488	1.00	94.07	A16S
ATOM	11121	C8	A	A	539	176.772	96.509	29.569	1.00	94.07	A16S
ATOM	11122	C2*	A	A	539	176.920	97.282	32.952	1.00	92.67	A16S
ATOM	11123	O2*	A	A	539	177.656	97.590	34.120	1.00	92.67	A16S
ATOM	11124	C3*	A	A	539	176.035	96.058	33.132	1.00	92.67	A16S
ATOM	11125	O3*	A	A	539	175.440	96.003	34.413	1.00	92.67	A16S
ATOM	11126	P	G	A	540	173.918	96.469	34.591	1.00	83.35	A16S
ATOM	11127	O1P	G	A	540	173.492	96.032	35.943	1.00	105.13	A16S
ATOM	11128	O2P	G	A	540	173.149	96.018	33.404	1.00	105.13	A16S
ATOM	11129	O5*	G	A	540	173.998	98.061	34.577	1.00	83.35	A16S
ATOM	11130	C5*	G	A	540	174.548	98.778	35.704	1.00	83.35	A16S
ATOM	11131	C4*	G	A	540	174.644	100.262	35.413	1.00	83.35	A16S
ATOM	11132	O4*	G	A	540	175.610	100.504	34.358	1.00	83.35	A16S
ATOM	11133	C1*	G	A	540	175.173	101.577	33.542	1.00	83.35	A16S
ATOM	11134	N9	G	A	540	174.907	101.054	32.206	1.00	105.13	A16S
ATOM	11135	C4	G	A	540	174.805	101.789	31.062	1.00	105.13	A16S
ATOM	11136	N3	G	A	540	174.966	103.122	30.968	1.00	105.13	A16S
ATOM	11137	C2	G	A	540	174.786	103.550	29.733	1.00	105.13	A16S
ATOM	11138	N2	G	A	540	174.912	104.852	29.459	1.00	105.13	A16S
ATOM	11139	N1	G	A	540	174.469	102.733	28.675	1.00	105.13	A16S
ATOM	11140	C6	G	A	540	174.295	101.355	28.753	1.00	105.13	A16S
ATOM	11141	O6	G	A	540	174.000	100.706	27.738	1.00	105.13	A16S
ATOM	11142	C5	G	A	540	174.491	100.884	30.070	1.00	105.13	A16S
ATOM	11143	N7	G	A	540	174.416	99.598	30.582	1.00	105.13	A16S
ATOM	11144	C8	G	A	540	174.676	99.745	31.850	1.00	105.13	A16S
ATOM	11145	C2*	G	A	540	173.895	102.137	34.166	1.00	83.35	A16S
ATOM	11146	O2*	G	A	540	174.234	103.230	34.991	1.00	83.35	A16S
ATOM	11147	C3*	G	A	540	173.371	100.929	34.931	1.00	83.35	A16S
ATOM	11148	O3*	G	A	540	172.549	101.291	36.017	1.00	83.35	A16S
ATOM	11149	P	G	A	541	170.965	101.358	35.813	1.00	89.11	A16S
ATOM	11150	O1P	G	A	541	170.386	101.832	37.100	1.00	82.95	A16S
ATOM	11151	O2P	G	A	541	170.513	100.068	35.241	1.00	82.95	A16S
ATOM	11152	O5*	G	A	541	170.792	102.493	34.713	1.00	89.11	A16S
ATOM	11153	C5*	G	A	541	171.117	103.855	35.017	1.00	89.11	A16S
ATOM	11154	C4*	G	A	541	171.032	104.705	33.774	1.00	89.11	A16S
ATOM	11155	O4*	G	A	541	172.048	104.269	32.831	1.00	89.11	A16S
ATOM	11156	C1*	G	A	541	171.573	104.438	31.502	1.00	89.11	A16S
ATOM	11157	N9	G	A	541	171.460	103.128	30.862	1.00	82.95	A16S
ATOM	11158	C4	G	A	541	171.163	102.914	29.538	1.00	82.95	A16S



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ATOM	11159	N3	G	A 541	170.996	103.875	28.602	1.00	82.95	A16S
ATOM	11160	C2	G	A 541	170.670	103.370	27.435	1.00	82.95	A16S
ATOM	11161	N2	G	A 541	170.467	104.190	26.403	1.00	82.95	A16S
ATOM	11162	N1	G	A 541	170.517	102.023	27.201	1.00	82.95	A16S
ATOM	11163	C6	G	A 541	170.681	101.016	28.154	1.00	82.95	A16S
ATOM	11164	O6	G	A 541	170.500	99.834	27.850	1.00	82.95	A16S
ATOM	11165	C5	G	A 541	171.041	101.545	29.406	1.00	82.95	A16S
ATOM	11166	N7	G	A 541	171.304	100.904	30.609	1.00	82.95	A16S
ATOM	11167	C8	G	A 541	171.559	101.880	31.442	1.00	82.95	A16S
ATOM	11168	C2*	G	A 541	170.183	105.068	31.593	1.00	89.11	A16S
ATOM	11169	O2*	G	A 541	170.263	106.473	31.491	1.00	89.11	A16S
ATOM	11170	C3*	G	A 541	169.739	104.618	32.974	1.00	89.11	A16S
ATOM	11171	O3*	G	A 541	168.674	105.412	33.464	1.00	89.11	A16S
ATOM	11172	P	G	A 542	167.163	105.010	33.084	1.00	83.97	A16S
ATOM	11173	O1P	G	A 542	166.262	106.013	33.704	1.00	76.53	A16S
ATOM	11174	O2P	G	A 542	166.943	103.559	33.355	1.00	76.53	A16S
ATOM	11175	O5*	G	A 542	167.102	105.270	31.514	1.00	83.97	A16S
ATOM	11176	C5*	G	A 542	167.213	106.612	31.005	1.00	83.97	A16S
ATOM	11177	C4*	G	A 542	167.002	106.630	29.517	1.00	83.97	A16S
ATOM	11178	O4*	G	A 542	168.007	105.793	28.895	1.00	83.97	A16S
ATOM	11179	C1*	G	A 542	167.460	105.167	27.756	1.00	83.97	A16S
ATOM	11180	N9	G	A 542	167.492	103.726	27.965	1.00	76.53	A16S
ATOM	11181	C4	G	A 542	167.322	102.767	26.996	1.00	76.53	A16S
ATOM	11182	N3	G	A 542	167.114	102.998	25.682	1.00	76.53	A16S
ATOM	11183	C2	G	A 542	166.955	101.881	25.004	1.00	76.53	A16S
ATOM	11184	N2	G	A 542	166.722	101.938	23.692	1.00	76.53	A16S
ATOM	11185	N1	G	A 542	167.009	100.630	25.567	1.00	76.53	A16S
ATOM	11186	C6	G	A 542	167.222	100.366	26.917	1.00	76.53	A16S
ATOM	11187	O6	G	A 542	167.244	99.196	27.324	1.00	76.53	A16S
ATOM	11188	C5	G	A 542	167.387	101.561	27.659	1.00	76.53	A16S
ATOM	11189	N7	G	A 542	167.609	101.757	29.016	1.00	76.53	A16S
ATOM	11190	C8	G	A 542	167.669	103.055	29.150	1.00	76.53	A16S
ATOM	11191	C2*	G	A 542	166.025	105.666	27.591	1.00	83.97	A16S
ATOM	11192	O2*	G	A 542	166.014	106.753	26.690	1.00	83.97	A16S
ATOM	11193	C3*	G	A 542	165.677	106.086	29.011	1.00	83.97	A16S
ATOM	11194	O3*	G	A 542	164.660	107.082	29.016	1.00	83.97	A16S
ATOM	11195	P	C	A 543	163.127	106.653	28.783	1.00	77.61	A16S
ATOM	11196	O1P	C	A 543	162.286	107.878	28.851	1.00	75.20	A16S
ATOM	11197	O2P	C	A 543	162.828	105.501	29.682	1.00	75.20	A16S
ATOM	11198	O5*	C	A 543	163.090	106.138	27.275	1.00	77.61	A16S
ATOM	11199	C5*	C	A 543	163.249	107.056	26.173	1.00	77.61	A16S
ATOM	11200	C4*	C	A 543	162.963	106.361	24.860	1.00	77.61	A16S
ATOM	11201	O4*	C	A 543	163.988	105.368	24.580	1.00	77.61	A16S
ATOM	11202	C1*	C	A 543	163.400	104.225	23.962	1.00	77.61	A16S
ATOM	11203	N1	C	A 543	163.589	103.044	24.846	1.00	75.20	A16S
ATOM	11204	C6	C	A 543	163.918	103.196	26.168	1.00	75.20	A16S
ATOM	11205	C2	C	A 543	163.421	101.751	24.309	1.00	75.20	A16S
ATOM	11206	O2	C	A 543	163.084	101.628	23.121	1.00	75.20	A16S
ATOM	11207	N3	C	A 543	163.618	100.671	25.110	1.00	75.20	A16S
ATOM	11208	C4	C	A 543	163.954	100.840	26.393	1.00	75.20	A16S
ATOM	11209	N4	C	A 543	164.156	99.754	27.139	1.00	75.20	A16S
ATOM	11210	C5	C	A 543	164.103	102.133	26.967	1.00	75.20	A16S
ATOM	11211	C2*	C	A 543	161.921	104.541	23.747	1.00	77.61	A16S
ATOM	11212	O2*	C	A 543	161.723	105.112	22.478	1.00	77.61	A16S
ATOM	11213	C3*	C	A 543	161.671	105.569	24.833	1.00	77.61	A16S
ATOM	11214	O3*	C	A 543	160.543	106.351	24.542	1.00	77.61	A16S
ATOM	11215	P	G	A 544	159.108	105.824	25.006	1.00	76.95	A16S
ATOM	11216	O1P	G	A 544	158.121	106.853	24.579	1.00	77.63	A16S
ATOM	11217	O2P	G	A 544	159.200	105.428	26.442	1.00	77.63	A16S
ATOM	11218	O5*	G	A 544	158.895	104.498	24.151	1.00	76.95	A16S
ATOM	11219	C5*	G	A 544	158.823	104.562	22.720	1.00	76.95	A16S
ATOM	11220	C4*	G	A 544	158.599	103.190	22.128	1.00	76.95	A16S
ATOM	11221	O4*	G	A 544	159.741	102.335	22.389	1.00	76.95	A16S
ATOM	11222	C1*	G	A 544	159.309	100.989	22.461	1.00	76.95	A16S
ATOM	11223	N9	G	A 544	159.743	100.416	23.730	1.00	77.63	A16S
ATOM	11224	C4	G	A 544	159.876	99.077	24.012	1.00	77.63	A16S
ATOM	11225	N3	G	A 544	159.624	98.061	23.162	1.00	77.63	A16S
ATOM	11226	C2	G	A 544	159.859	96.885	23.716	1.00	77.63	A16S
ATOM	11227	N2	G	A 544	159.670	95.765	23.002	1.00	77.63	A16S
ATOM	11228	N1	G	A 544	160.296	96.721	25.008	1.00	77.63	A16S
ATOM	11229	C6	G	A 544	160.548	97.754	25.904	1.00	77.63	A16S
ATOM	11230	O6	G	A 544	160.918	97.499	27.053	1.00	77.63	A16S
ATOM	11231	C5	G	A 544	160.315	99.019	25.317	1.00	77.63	A16S
ATOM	11232	N7	G	A 544	160.449	100.294	25.848	1.00	77.63	A16S
ATOM	11233	C8	G	A 544	160.099	101.089	24.873	1.00	77.63	A16S
ATOM	11234	C2*	G	A 544	157.791	100.967	22.275	1.00	76.95	A16S
ATOM	11235	O2*	G	A 544	157.507	100.668	20.920	1.00	76.95	A16S



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ATOM	11236	C3*	G	A	544	157.407	102.398	22.633	1.00	76.95	A16S
ATOM	11237	O3*	G	A	544	156.205	102.784	21.979	1.00	76.95	A16S
ATOM	11238	P	C	A	545	154.807	102.684	22.768	1.00	78.56	A16S
ATOM	11239	O1P	C	A	545	153.762	103.160	21.814	1.00	85.39	A16S
ATOM	11240	O2P	C	A	545	154.968	103.364	24.081	1.00	85.39	A16S
ATOM	11241	O5*	C	A	545	154.612	101.121	23.051	1.00	78.56	A16S
ATOM	11242	C5*	C	A	545	154.032	100.270	22.046	1.00	78.56	A16S
ATOM	11243	C4*	C	A	545	154.205	98.800	22.384	1.00	78.56	A16S
ATOM	11244	O4*	C	A	545	155.600	98.500	22.636	1.00	78.56	A16S
ATOM	11245	C1*	C	A	545	155.693	97.355	23.460	1.00	78.56	A16S
ATOM	11246	N1	C	A	545	156.416	97.697	24.689	1.00	85.39	A16S
ATOM	11247	C6	C	A	545	156.598	98.996	25.060	1.00	85.39	A16S
ATOM	11248	C2	C	A	545	156.885	96.652	25.507	1.00	85.39	A16S
ATOM	11249	O2	C	A	545	156.772	95.481	25.119	1.00	85.39	A16S
ATOM	11250	N3	C	A	545	157.452	96.943	26.688	1.00	85.39	A16S
ATOM	11251	C4	C	A	545	157.587	98.212	27.060	1.00	85.39	A16S
ATOM	11252	N4	C	A	545	158.130	98.450	28.256	1.00	85.39	A16S
ATOM	11253	C5	C	A	545	157.169	99.297	26.227	1.00	85.39	A16S
ATOM	11254	C2*	C	A	545	154.271	96.918	23.799	1.00	78.56	A16S
ATOM	11255	O2*	C	A	545	153.890	95.926	22.876	1.00	78.56	A16S
ATOM	11256	C3*	C	A	545	153.489	98.205	23.588	1.00	78.56	A16S
ATOM	11257	O3*	C	A	545	152.120	97.905	23.323	1.00	78.56	A16S
ATOM	11258	P	G	A	546	151.071	97.828	24.543	1.00	70.51	A16S
ATOM	11259	O1P	G	A	546	149.740	97.479	23.970	1.00	77.93	A16S
ATOM	11260	O2P	G	A	546	151.217	99.064	25.364	1.00	77.93	A16S
ATOM	11261	O5*	G	A	546	151.588	96.576	25.383	1.00	70.51	A16S
ATOM	11262	C5*	G	A	546	151.565	95.254	24.817	1.00	70.51	A16S
ATOM	11263	C4*	G	A	546	152.171	94.246	25.772	1.00	70.51	A16S
ATOM	11264	O4*	G	A	546	153.550	94.595	26.058	1.00	70.51	A16S
ATOM	11265	C1*	G	A	546	153.885	94.211	27.381	1.00	70.51	A16S
ATOM	11266	N9	G	A	546	154.321	95.406	28.110	1.00	77.93	A16S
ATOM	11267	C4	G	A	546	155.106	95.454	29.242	1.00	77.93	A16S
ATOM	11268	N3	G	A	546	155.637	94.397	29.891	1.00	77.93	A16S
ATOM	11269	C2	G	A	546	156.349	94.775	30.948	1.00	77.93	A16S
ATOM	11270	N2	G	A	546	156.965	93.858	31.711	1.00	77.93	A16S
ATOM	11271	N1	G	A	546	156.513	96.080	31.335	1.00	77.93	A16S
ATOM	11272	C6	G	A	546	155.964	97.180	30.686	1.00	77.93	A16S
ATOM	11273	O6	G	A	546	156.156	98.316	31.130	1.00	77.93	A16S
ATOM	11274	C5	G	A	546	155.219	96.797	29.551	1.00	77.93	A16S
ATOM	11275	N7	G	A	546	154.537	97.575	28.632	1.00	77.93	A16S
ATOM	11276	C8	G	A	546	154.021	96.712	27.798	1.00	77.93	A16S
ATOM	11277	C2*	G	A	546	152.658	93.509	27.971	1.00	70.51	A16S
ATOM	11278	O2*	G	A	546	152.799	92.116	27.749	1.00	70.51	A16S
ATOM	11279	C3*	G	A	546	151.522	94.099	27.137	1.00	70.51	A16S
ATOM	11280	O3*	G	A	546	150.380	93.240	27.047	1.00	70.51	A16S
ATOM	11281	P	A	A	547	149.466	92.970	28.346	1.00	74.75	A16S
ATOM	11282	O1P	A	A	547	148.095	92.589	27.891	1.00	75.26	A16S
ATOM	11283	O2P	A	A	547	149.639	94.123	29.276	1.00	75.26	A16S
ATOM	11284	O5*	A	A	547	150.158	91.697	29.012	1.00	74.75	A16S
ATOM	11285	C5*	A	A	547	149.519	90.407	28.990	1.00	74.75	A16S
ATOM	11286	C4*	A	A	547	150.260	89.478	28.062	1.00	74.75	A16S
ATOM	11287	O4*	A	A	547	151.631	89.295	28.503	1.00	74.75	A16S
ATOM	11288	C1*	A	A	547	151.902	87.914	28.677	1.00	74.75	A16S
ATOM	11289	N9	A	A	547	152.808	87.778	29.821	1.00	75.26	A16S
ATOM	11290	C4	A	A	547	154.164	87.564	29.756	1.00	75.26	A16S
ATOM	11291	N3	A	A	547	154.912	87.381	28.658	1.00	75.26	A16S
ATOM	11292	C2	A	A	547	156.194	87.229	28.979	1.00	75.26	A16S
ATOM	11293	N1	A	A	547	156.770	87.243	30.179	1.00	75.26	A16S
ATOM	11294	C6	A	A	547	155.988	87.430	31.264	1.00	75.26	A16S
ATOM	11295	N6	A	A	547	156.559	87.456	32.470	1.00	75.26	A16S
ATOM	11296	C5	A	A	547	154.612	87.594	31.059	1.00	75.26	A16S
ATOM	11297	N7	A	A	547	153.557	87.788	31.938	1.00	75.26	A16S
ATOM	11298	C8	A	A	547	152.510	87.879	31.157	1.00	75.26	A16S
ATOM	11299	C2*	A	A	547	150.543	87.231	28.832	1.00	74.75	A16S
ATOM	11300	O2*	A	A	547	150.623	85.855	28.505	1.00	74.75	A16S
ATOM	11301	C3*	A	A	547	149.658	88.088	27.920	1.00	74.75	A16S
ATOM	11302	O3*	A	A	547	149.785	87.723	26.549	1.00	74.75	A16S
ATOM	11303	P	G	A	548	148.946	88.527	25.422	1.00	69.57	A16S
ATOM	11304	O1P	G	A	548	147.574	88.898	25.937	1.00	69.22	A16S
ATOM	11305	O2P	G	A	548	149.074	87.745	24.153	1.00	69.22	A16S
ATOM	11306	O5*	G	A	548	149.753	89.883	25.228	1.00	69.57	A16S
ATOM	11307	C5*	G	A	548	150.756	89.992	24.229	1.00	69.57	A16S
ATOM	11308	C4*	G	A	548	152.078	90.230	24.878	1.00	69.57	A16S
ATOM	11309	O4*	G	A	548	152.539	89.009	25.503	1.00	69.57	A16S
ATOM	11310	C1*	G	A	548	153.957	88.951	25.427	1.00	69.57	A16S
ATOM	11311	N9	G	A	548	154.339	87.713	24.751	1.00	69.22	A16S
ATOM	11312	C4	G	A	548	155.612	87.204	24.625	1.00	69.22	A16S



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ATOM	11313	N3	G	A 548	156.748	87.788	25.059	1.00	69.22	A16S
ATOM	11314	C2	G	A 548	157.812	87.043	24.807	1.00	69.22	A16S
ATOM	11315	N2	G	A 548	159.030	87.496	25.127	1.00	69.22	A16S
ATOM	11316	N1	G	A 548	157.761	85.807	24.211	1.00	69.22	A16S
ATOM	11317	C6	G	A 548	156.600	85.186	23.764	1.00	69.22	A16S
ATOM	11318	O6	G	A 548	156.656	84.060	23.259	1.00	69.22	A16S
ATOM	11319	C5	G	A 548	155.459	85.993	23.989	1.00	69.22	A16S
ATOM	11320	N7	G	A 548	154.130	85.767	23.675	1.00	69.22	A16S
ATOM	11321	C8	G	A 548	153.504	86.811	24.144	1.00	69.22	A16S
ATOM	11322	C2*	G	A 548	154.439	90.208	24.701	1.00	69.57	A16S
ATOM	11323	O2*	G	A 548	154.794	91.207	25.637	1.00	69.57	A16S
ATOM	11324	C3*	G	A 548	153.194	90.600	23.928	1.00	69.57	A16S
ATOM	11325	O3*	G	A 548	153.160	91.977	23.642	1.00	69.57	A16S
ATOM	11326	P	C	A 549	153.353	92.456	22.130	1.00	66.32	A16S
ATOM	11327	O1P	C	A 549	152.890	93.865	22.043	1.00	61.18	A16S
ATOM	11328	O2P	C	A 549	152.734	91.421	21.234	1.00	61.18	A16S
ATOM	11329	O5*	C	A 549	154.935	92.397	21.942	1.00	66.32	A16S
ATOM	11330	C5*	C	A 549	155.820	93.133	22.804	1.00	66.32	A16S
ATOM	11331	C4*	C	A 549	157.227	92.592	22.686	1.00	66.32	A16S
ATOM	11332	O4*	C	A 549	157.235	91.215	23.119	1.00	66.32	A16S
ATOM	11333	C1*	C	A 549	158.212	90.493	22.394	1.00	66.32	A16S
ATOM	11334	N1	C	A 549	157.602	89.294	21.811	1.00	61.18	A16S
ATOM	11335	C6	C	A 549	156.249	89.129	21.791	1.00	61.18	A16S
ATOM	11336	C2	C	A 549	158.433	88.310	21.300	1.00	61.18	A16S
ATOM	11337	O2	C	A 549	159.651	88.493	21.317	1.00	61.18	A16S
ATOM	11338	N3	C	A 549	157.899	87.183	20.803	1.00	61.18	A16S
ATOM	11339	C4	C	A 549	156.580	87.018	20.808	1.00	61.18	A16S
ATOM	11340	N4	C	A 549	156.091	85.878	20.327	1.00	61.18	A16S
ATOM	11341	C5	C	A 549	155.700	88.013	21.310	1.00	61.18	A16S
ATOM	11342	C2*	C	A 549	158.861	91.434	21.391	1.00	66.32	A16S
ATOM	11343	O2*	C	A 549	160.054	91.878	21.986	1.00	66.32	A16S
ATOM	11344	C3*	C	A 549	157.833	92.549	21.290	1.00	66.32	A16S
ATOM	11345	O3*	C	A 549	158.479	93.778	21.000	1.00	66.32	A16S
ATOM	11346	P	G	A 550	158.874	94.134	19.483	1.00	85.29	A16S
ATOM	11347	O1P	G	A 550	159.305	95.559	19.508	1.00	57.00	A16S
ATOM	11348	O2P	G	A 550	157.769	93.704	18.572	1.00	57.00	A16S
ATOM	11349	O5*	G	A 550	160.155	93.231	19.187	1.00	85.29	A16S
ATOM	11350	C5*	G	A 550	160.404	92.703	17.872	1.00	85.29	A16S
ATOM	11351	C4*	G	A 550	161.415	91.588	17.943	1.00	85.29	A16S
ATOM	11352	O4*	G	A 550	160.924	90.563	18.837	1.00	85.29	A16S
ATOM	11353	C1*	G	A 550	161.290	89.281	18.356	1.00	85.29	A16S
ATOM	11354	N9	G	A 550	160.074	88.526	18.087	1.00	57.00	A16S
ATOM	11355	C4	G	A 550	160.012	87.201	17.759	1.00	57.00	A16S
ATOM	11356	N3	G	A 550	161.063	86.380	17.612	1.00	57.00	A16S
ATOM	11357	C2	G	A 550	160.686	85.161	17.274	1.00	57.00	A16S
ATOM	11358	N2	G	A 550	161.600	84.219	17.061	1.00	57.00	A16S
ATOM	11359	N1	G	A 550	159.386	84.775	17.110	1.00	57.00	A16S
ATOM	11360	C6	G	A 550	158.287	85.603	17.256	1.00	57.00	A16S
ATOM	11361	O6	G	A 550	157.149	85.151	17.076	1.00	57.00	A16S
ATOM	11362	C5	G	A 550	158.672	86.922	17.606	1.00	57.00	A16S
ATOM	11363	N7	G	A 550	157.903	88.058	17.825	1.00	57.00	A16S
ATOM	11364	C8	G	A 550	158.777	88.985	18.108	1.00	57.00	A16S
ATOM	11365	C2*	G	A 550	162.115	89.482	17.094	1.00	85.29	A16S
ATOM	11366	O2*	G	A 550	163.481	89.461	17.437	1.00	85.29	A16S
ATOM	11367	C3*	G	A 550	161.631	90.847	16.643	1.00	85.29	A16S
ATOM	11368	O3*	G	A 550	162.536	91.501	15.794	1.00	85.29	A16S
ATOM	11369	P	U	A 551	162.225	91.527	14.226	1.00	66.55	A16S
ATOM	11370	O1P	U	A 551	163.165	92.513	13.611	1.00	53.54	A16S
ATOM	11371	O2P	U	A 551	160.754	91.713	14.068	1.00	53.54	A16S
ATOM	11372	O5*	U	A 551	162.592	90.049	13.751	1.00	66.55	A16S
ATOM	11373	C5*	U	A 551	163.920	89.554	13.942	1.00	66.55	A16S
ATOM	11374	C4*	U	A 551	163.980	88.080	13.672	1.00	66.55	A16S
ATOM	11375	O4*	U	A 551	163.148	87.364	14.614	1.00	66.55	A16S
ATOM	11376	C1*	U	A 551	162.611	86.212	14.000	1.00	66.55	A16S
ATOM	11377	N1	U	A 551	161.150	86.307	14.045	1.00	53.54	A16S
ATOM	11378	C6	U	A 551	160.516	87.495	14.310	1.00	53.54	A16S
ATOM	11379	C2	U	A 551	160.431	85.155	13.804	1.00	53.54	A16S
ATOM	11380	O2	U	A 551	160.966	84.074	13.561	1.00	53.54	A16S
ATOM	11381	N3	U	A 551	159.069	85.310	13.857	1.00	53.54	A16S
ATOM	11382	C4	U	A 551	158.382	86.466	14.125	1.00	53.54	A16S
ATOM	11383	O4	U	A 551	157.165	86.430	14.203	1.00	53.54	A16S
ATOM	11384	C5	U	A 551	159.193	87.606	14.356	1.00	53.54	A16S
ATOM	11385	C2*	U	A 551	163.122	86.175	12.566	1.00	66.55	A16S
ATOM	11386	O2*	U	A 551	164.249	85.334	12.536	1.00	66.55	A16S
ATOM	11387	C3*	U	A 551	163.462	87.639	12.327	1.00	66.55	A16S
ATOM	11388	O3*	U	A 551	164.438	87.829	11.330	1.00	66.55	A16S
ATOM	11389	P	U	A 552	163.976	88.305	9.873	1.00	65.13	A16S



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ATOM	11390	O1P	U	A	552	165.168	88.930	9.213	1.00	64.65	A16S
ATOM	11391	O2P	U	A	552	162.727	89.096	10.052	1.00	64.65	A16S
ATOM	11392	O5*	U	A	552	163.560	86.950	9.144	1.00	65.13	A16S
ATOM	11393	C5*	U	A	552	164.402	85.789	9.216	1.00	65.13	A16S
ATOM	11394	C4*	U	A	552	163.588	84.546	8.978	1.00	65.13	A16S
ATOM	11395	O4*	U	A	552	162.732	84.271	10.113	1.00	65.13	A16S
ATOM	11396	C1*	U	A	552	161.524	83.682	9.662	1.00	65.13	A16S
ATOM	11397	N1	U	A	552	160.391	84.514	10.094	1.00	64.65	A16S
ATOM	11398	C6	U	A	552	160.548	85.840	10.404	1.00	64.65	A16S
ATOM	11399	C2	U	A	552	159.141	83.909	10.165	1.00	64.65	A16S
ATOM	11400	O2	U	A	552	158.958	82.735	9.917	1.00	64.65	A16S
ATOM	11401	N3	U	A	552	158.113	84.730	10.538	1.00	64.65	A16S
ATOM	11402	C4	U	A	552	158.196	86.064	10.848	1.00	64.65	A16S
ATOM	11403	O4	U	A	552	157.163	86.687	11.113	1.00	64.65	A16S
ATOM	11404	C5	U	A	552	159.523	86.616	10.771	1.00	64.65	A16S
ATOM	11405	C2*	U	A	552	161.599	83.572	8.140	1.00	65.13	A16S
ATOM	11406	O2*	U	A	552	162.070	82.296	7.774	1.00	65.13	A16S
ATOM	11407	C3*	U	A	552	162.626	84.635	7.812	1.00	65.13	A16S
ATOM	11408	O3*	U	A	552	163.265	84.376	6.591	1.00	65.13	A16S
ATOM	11409	P	A	A	553	162.820	85.199	5.295	1.00	68.83	A16S
ATOM	11410	O1P	A	A	553	163.900	84.959	4.299	1.00	57.86	A16S
ATOM	11411	O2P	A	A	553	162.489	86.599	5.709	1.00	57.86	A16S
ATOM	11412	O5*	A	A	553	161.488	84.465	4.837	1.00	68.83	A16S
ATOM	11413	C5*	A	A	553	161.493	83.056	4.624	1.00	68.83	A16S
ATOM	11414	C4*	A	A	553	160.089	82.550	4.472	1.00	68.83	A16S
ATOM	11415	O4*	A	A	553	159.425	82.475	5.761	1.00	68.83	A16S
ATOM	11416	C1*	A	A	553	158.055	82.808	5.603	1.00	68.83	A16S
ATOM	11417	N9	A	A	553	157.764	83.995	6.415	1.00	57.86	A16S
ATOM	11418	C4	A	A	553	156.546	84.377	6.929	1.00	57.86	A16S
ATOM	11419	N3	A	A	553	155.378	83.722	6.841	1.00	57.86	A16S
ATOM	11420	C2	A	A	553	154.415	84.412	7.423	1.00	57.86	A16S
ATOM	11421	N1	A	A	553	154.476	85.594	8.034	1.00	57.86	A16S
ATOM	11422	C6	A	A	553	155.665	86.225	8.105	1.00	57.86	A16S
ATOM	11423	N6	A	A	553	155.732	87.416	8.707	1.00	57.86	A16S
ATOM	11424	C5	A	A	553	156.761	85.597	7.536	1.00	57.86	A16S
ATOM	11425	N7	A	A	553	158.089	85.967	7.443	1.00	57.86	A16S
ATOM	11426	C8	A	A	553	158.645	84.980	6.783	1.00	57.86	A16S
ATOM	11427	C2*	A	A	553	157.808	83.057	4.107	1.00	68.83	A16S
ATOM	11428	O2*	A	A	553	157.321	81.867	3.524	1.00	68.83	A16S
ATOM	11429	C3*	A	A	553	159.201	83.426	3.614	1.00	68.83	A16S
ATOM	11430	O3*	A	A	553	159.424	83.164	2.233	1.00	68.83	A16S
ATOM	11431	P	C	A	554	159.315	84.367	1.165	1.00	63.76	A16S
ATOM	11432	O1P	C	A	554	159.798	83.857	-0.160	1.00	65.84	A16S
ATOM	11433	O2P	C	A	554	159.918	85.611	1.743	1.00	65.84	A16S
ATOM	11434	O5*	C	A	554	157.745	84.573	1.044	1.00	63.76	A16S
ATOM	11435	C5*	C	A	554	156.941	83.515	0.523	1.00	63.76	A16S
ATOM	11436	C4*	C	A	554	155.489	83.762	0.809	1.00	63.76	A16S
ATOM	11437	O4*	C	A	554	155.258	83.702	2.234	1.00	63.76	A16S
ATOM	11438	C1*	C	A	554	154.208	84.584	2.573	1.00	63.76	A16S
ATOM	11439	N1	C	A	554	154.726	85.589	3.512	1.00	65.84	A16S
ATOM	11440	C6	C	A	554	156.045	85.931	3.511	1.00	65.84	A16S
ATOM	11441	C2	C	A	554	153.835	86.221	4.380	1.00	65.84	A16S
ATOM	11442	O2	C	A	554	152.665	85.809	4.445	1.00	65.84	A16S
ATOM	11443	N3	C	A	554	154.274	87.243	5.141	1.00	65.84	A16S
ATOM	11444	C4	C	A	554	155.556	87.600	5.096	1.00	65.84	A16S
ATOM	11445	N4	C	A	554	155.949	88.636	5.838	1.00	65.84	A16S
ATOM	11446	C5	C	A	554	156.498	86.917	4.283	1.00	65.84	A16S
ATOM	11447	C2*	C	A	554	153.718	85.239	1.277	1.00	63.76	A16S
ATOM	11448	O2*	C	A	554	152.630	84.510	0.750	1.00	63.76	A16S
ATOM	11449	C3*	C	A	554	154.933	85.104	0.381	1.00	63.76	A16S
ATOM	11450	O3*	C	A	554	154.556	85.102	-0.982	1.00	63.76	A16S
ATOM	11451	P	C	A	555	154.553	86.484	-1.801	1.00	61.08	A16S
ATOM	11452	O1P	C	A	555	154.510	86.154	-3.256	1.00	69.54	A16S
ATOM	11453	O2P	C	A	555	155.618	87.379	-1.280	1.00	69.54	A16S
ATOM	11454	O5*	C	A	555	153.173	87.174	-1.417	1.00	61.08	A16S
ATOM	11455	C5*	C	A	555	151.932	86.683	-1.939	1.00	61.08	A16S
ATOM	11456	C4*	C	A	555	150.805	87.550	-1.454	1.00	61.08	A16S
ATOM	11457	O4*	C	A	555	150.683	87.416	-0.016	1.00	61.08	A16S
ATOM	11458	C1*	C	A	555	150.302	88.653	0.551	1.00	61.08	A16S
ATOM	11459	N1	C	A	555	151.353	89.085	1.489	1.00	69.54	A16S
ATOM	11460	C6	C	A	555	152.655	88.715	1.305	1.00	69.54	A16S
ATOM	11461	C2	C	A	555	150.997	89.888	2.582	1.00	69.54	A16S
ATOM	11462	O2	C	A	555	149.811	90.215	2.726	1.00	69.54	A16S
ATOM	11463	N3	C	A	555	151.950	90.286	3.452	1.00	69.54	A16S
ATOM	11464	C4	C	A	555	153.215	89.908	3.271	1.00	69.54	A16S
ATOM	11465	N4	C	A	555	154.122	90.303	4.167	1.00	69.54	A16S
ATOM	11466	C5	C	A	555	153.609	89.098	2.163	1.00	69.54	A16S



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ATOM	11467	C2*	C	A	555	150.101	89.634	-0.600	1.00	61.08	A16S
ATOM	11468	O2*	C	A	555	148.744	89.603	-0.999	1.00	61.08	A16S
ATOM	11469	C3*	C	A	555	150.997	89.036	-1.666	1.00	61.08	A16S
ATOM	11470	O3*	C	A	555	150.604	89.454	-2.954	1.00	61.08	A16S
ATOM	11471	P	C	A	556	151.263	90.780	-3.578	1.00	65.12	A16S
ATOM	11472	O1P	C	A	556	150.913	90.857	-5.036	1.00	63.91	A16S
ATOM	11473	O2P	C	A	556	152.699	90.770	-3.161	1.00	63.91	A16S
ATOM	11474	O5*	C	A	556	150.546	91.972	-2.797	1.00	65.12	A16S
ATOM	11475	C5*	C	A	556	149.166	92.283	-3.035	1.00	65.12	A16S
ATOM	11476	C4*	C	A	556	148.735	93.427	-2.162	1.00	65.12	A16S
ATOM	11477	O4*	C	A	556	148.713	93.006	-0.777	1.00	65.12	A16S
ATOM	11478	C1*	C	A	556	149.037	94.098	0.064	1.00	65.12	A16S
ATOM	11479	N1	C	A	556	150.267	93.783	0.806	1.00	63.91	A16S
ATOM	11480	C6	C	A	556	151.165	92.878	0.323	1.00	63.91	A16S
ATOM	11481	C2	C	A	556	150.525	94.457	2.003	1.00	63.91	A16S
ATOM	11482	O2	C	A	556	149.658	95.208	2.468	1.00	63.91	A16S
ATOM	11483	N3	C	A	556	151.707	94.260	2.628	1.00	63.91	A16S
ATOM	11484	C4	C	A	556	152.590	93.404	2.121	1.00	63.91	A16S
ATOM	11485	N4	C	A	556	153.748	93.266	2.739	1.00	63.91	A16S
ATOM	11486	C5	C	A	556	152.326	92.659	0.948	1.00	63.91	A16S
ATOM	11487	C2*	C	A	556	149.263	95.304	-0.837	1.00	65.12	A16S
ATOM	11488	O2*	C	A	556	148.038	95.986	-0.965	1.00	65.12	A16S
ATOM	11489	O3*	C	A	556	149.642	94.640	-2.149	1.00	65.12	A16S
ATOM	11490	C3*	C	A	556	149.409	95.494	-3.250	1.00	65.12	A16S
ATOM	11491	P	G	A	557	150.546	96.542	-3.684	1.00	63.23	A16S
ATOM	11492	O1P	G	A	557	149.953	97.296	-4.804	1.00	78.16	A16S
ATOM	11493	O2P	G	A	557	151.834	95.840	-3.876	1.00	78.16	A16S
ATOM	11494	O5*	G	A	557	150.678	97.517	-2.434	1.00	63.23	A16S
ATOM	11495	C5*	G	A	557	149.551	98.312	-2.010	1.00	63.23	A16S
ATOM	11496	C4*	G	A	557	149.910	99.141	-0.798	1.00	63.23	A16S
ATOM	11497	O4*	G	A	557	150.231	98.271	0.313	1.00	63.23	A16S
ATOM	11498	C1*	G	A	557	151.331	98.800	1.031	1.00	63.23	A16S
ATOM	11499	N9	G	A	557	152.420	97.841	0.921	1.00	78.16	A16S
ATOM	11500	C4	G	A	557	153.602	97.866	1.607	1.00	78.16	A16S
ATOM	11501	N3	G	A	557	153.973	98.793	2.514	1.00	78.16	A16S
ATOM	11502	C2	G	A	557	155.178	98.555	2.998	1.00	78.16	A16S
ATOM	11503	N2	G	A	557	155.713	99.384	3.894	1.00	78.16	A16S
ATOM	11504	N1	G	A	557	155.953	97.488	2.631	1.00	78.16	A16S
ATOM	11505	C6	G	A	557	155.592	96.519	1.693	1.00	78.16	A16S
ATOM	11506	O6	G	A	557	156.383	95.594	1.409	1.00	78.16	A16S
ATOM	11507	C5	G	A	557	154.301	96.765	1.166	1.00	78.16	A16S
ATOM	11508	N7	G	A	557	153.570	96.061	0.221	1.00	78.16	A16S
ATOM	11509	C8	G	A	557	152.463	96.735	0.108	1.00	78.16	A16S
ATOM	11510	C2*	G	A	557	151.674	100.166	0.432	1.00	63.23	A16S
ATOM	11511	O2*	G	A	557	151.006	101.169	1.166	1.00	63.23	A16S
ATOM	11512	C3*	G	A	557	151.128	100.031	-0.983	1.00	63.23	A16S
ATOM	11513	O3*	G	A	557	150.706	101.278	-1.505	1.00	63.23	A16S
ATOM	11514	P	G	A	558	151.166	101.722	-2.970	1.00	56.64	A16S
ATOM	11515	O1P	G	A	558	150.175	102.740	-3.452	1.00	62.88	A16S
ATOM	11516	O2P	G	A	558	151.425	100.498	-3.782	1.00	62.88	A16S
ATOM	11517	O5*	G	A	558	152.511	102.514	-2.674	1.00	56.64	A16S
ATOM	11518	C5*	G	A	558	152.429	103.759	-1.979	1.00	56.64	A16S
ATOM	11519	C4*	G	A	558	153.549	103.892	-0.987	1.00	56.64	A16S
ATOM	11520	O4*	G	A	558	153.662	102.696	-0.184	1.00	56.64	A16S
ATOM	11521	C1*	G	A	558	155.021	102.469	0.142	1.00	56.64	A16S
ATOM	11522	N9	G	A	558	155.375	101.161	-0.385	1.00	62.88	A16S
ATOM	11523	C4	G	A	558	156.310	100.284	0.116	1.00	62.88	A16S
ATOM	11524	N3	G	A	558	157.082	100.478	1.204	1.00	62.88	A16S
ATOM	11525	C2	G	A	558	157.888	99.455	1.431	1.00	62.88	A16S
ATOM	11526	N2	G	A	558	158.724	99.485	2.471	1.00	62.88	A16S
ATOM	11527	N1	G	A	558	157.931	98.325	0.658	1.00	62.88	A16S
ATOM	11528	C6	G	A	558	157.136	98.093	-0.463	1.00	62.88	A16S
ATOM	11529	O6	G	A	558	157.233	97.008	-1.088	1.00	62.88	A16S
ATOM	11530	C5	G	A	558	156.271	99.197	-0.723	1.00	62.88	A16S
ATOM	11531	N7	G	A	558	155.333	99.386	-1.727	1.00	62.88	A16S
ATOM	11532	C8	G	A	558	154.828	100.561	-1.486	1.00	62.88	A16S
ATOM	11533	C2*	G	A	558	155.840	103.605	-0.470	1.00	56.64	A16S
ATOM	11534	O2*	G	A	558	156.038	104.584	0.526	1.00	56.64	A16S
ATOM	11535	C3*	G	A	558	154.918	104.073	-1.590	1.00	56.64	A16S
ATOM	11536	O3*	G	A	558	155.055	105.436	-1.915	1.00	56.64	A16S
ATOM	11537	P	A	A	559	155.837	105.854	-3.246	1.00	60.00	A16S
ATOM	11538	O1P	A	A	559	157.276	105.982	-2.840	1.00	67.35	A16S
ATOM	11539	O2P	A	A	559	155.133	107.010	-3.892	1.00	67.35	A16S
ATOM	11540	O5*	A	A	559	155.706	104.584	-4.188	1.00	60.00	A16S
ATOM	11541	C5*	A	A	559	155.860	104.725	-5.600	1.00	60.00	A16S
ATOM	11542	C4*	A	A	559	155.421	103.470	-6.286	1.00	60.00	A16S
ATOM	11543	O4*	A	A	559	156.483	102.484	-6.223	1.00	60.00	A16S



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ATOM	11544	C1*	A	A	559	155.942	101.219	-5.924	1.00	60.00	A16S
ATOM	11545	N9	A	A	559	156.986	100.382	-5.311	1.00	67.35	A16S
ATOM	11546	C4	A	A	559	157.707	100.557	-4.149	1.00	67.35	A16S
ATOM	11547	N3	A	A	559	157.639	101.577	-3.284	1.00	67.35	A16S
ATOM	11548	C2	A	A	559	158.457	101.375	-2.248	1.00	67.35	A16S
ATOM	11549	N1	A	A	559	159.277	100.352	-2.000	1.00	67.35	A16S
ATOM	11550	C6	A	A	559	159.335	99.348	-2.897	1.00	67.35	A16S
ATOM	11551	N6	A	A	559	160.171	98.323	-2.665	1.00	67.35	A16S
ATOM	11552	C5	A	A	559	158.513	99.438	-4.033	1.00	67.35	A16S
ATOM	11553	N7	A	A	559	158.331	98.590	-5.107	1.00	67.35	A16S
ATOM	11554	C8	A	A	559	157.427	99.196	-5.835	1.00	67.35	A16S
ATOM	11555	C2*	A	A	559	154.657	101.449	-5.128	1.00	60.00	A16S
ATOM	11556	O2*	A	A	559	153.794	100.396	-5.487	1.00	60.00	A16S
ATOM	11557	C3*	A	A	559	154.207	102.813	-5.666	1.00	60.00	A16S
ATOM	11558	O3*	A	A	559	152.883	103.286	-5.967	1.00	60.00	A16S
ATOM	11559	P	U	A	560	152.129	102.831	-7.311	1.00	68.62	A16S
ATOM	11560	O1P	U	A	560	150.670	102.905	-7.025	1.00	92.42	A16S
ATOM	11561	O2P	U	A	560	152.713	101.550	-7.793	1.00	92.42	A16S
ATOM	11562	O5*	U	A	560	152.480	103.983	-8.350	1.00	68.62	A16S
ATOM	11563	C5*	U	A	560	153.115	103.677	-9.610	1.00	68.62	A16S
ATOM	11564	C4*	U	A	560	153.674	104.934	-10.233	1.00	68.62	A16S
ATOM	11565	O4*	U	A	560	152.598	105.731	-10.801	1.00	68.62	A16S
ATOM	11566	C1*	U	A	560	152.782	107.099	-10.481	1.00	68.62	A16S
ATOM	11567	N1	U	A	560	151.593	107.560	-9.748	1.00	92.42	A16S
ATOM	11568	C6	U	A	560	151.119	106.885	-8.650	1.00	92.42	A16S
ATOM	11569	C2	U	A	560	150.955	108.692	-10.208	1.00	92.42	A16S
ATOM	11570	O2	U	A	560	151.360	109.336	-11.161	1.00	92.42	A16S
ATOM	11571	N3	U	A	560	149.830	109.053	-9.508	1.00	92.42	A16S
ATOM	11572	C4	U	A	560	149.297	108.416	-8.408	1.00	92.42	A16S
ATOM	11573	O4	U	A	560	148.283	108.872	-7.868	1.00	92.42	A16S
ATOM	11574	C5	U	A	560	150.024	107.264	-7.984	1.00	92.42	A16S
ATOM	11575	C2*	U	A	560	154.102	107.252	-9.717	1.00	68.62	A16S
ATOM	11576	O2*	U	A	560	155.085	107.841	-10.540	1.00	68.62	A16S
ATOM	11577	C3*	U	A	560	154.340	105.825	-9.206	1.00	68.62	A16S
ATOM	11578	O3*	U	A	560	155.659	105.357	-8.831	1.00	68.62	A16S
ATOM	11579	P	U	A	561	156.913	105.452	-9.848	1.00	58.46	A16S
ATOM	11580	O1P	U	A	561	158.053	105.905	-9.007	1.00	78.64	A16S
ATOM	11581	O2P	U	A	561	156.562	106.197	-11.084	1.00	78.64	A16S
ATOM	11582	O5*	U	A	561	157.163	103.935	-10.283	1.00	58.46	A16S
ATOM	11583	C5*	U	A	561	156.756	103.474	-11.592	1.00	58.46	A16S
ATOM	11584	C4*	U	A	561	156.985	101.990	-11.727	1.00	58.46	A16S
ATOM	11585	O4*	U	A	561	158.349	101.690	-11.317	1.00	58.46	A16S
ATOM	11586	C1*	U	A	561	158.337	100.666	-10.342	1.00	58.46	A16S
ATOM	11587	N1	U	A	561	159.449	100.868	-9.403	1.00	78.64	A16S
ATOM	11588	C6	U	A	561	159.534	102.007	-8.652	1.00	78.64	A16S
ATOM	11589	C2	U	A	561	160.403	99.861	-9.288	1.00	78.64	A16S
ATOM	11590	O2	U	A	561	160.394	98.835	-9.959	1.00	78.64	A16S
ATOM	11591	N3	U	A	561	161.375	100.099	-8.358	1.00	78.64	A16S
ATOM	11592	C4	U	A	561	161.496	101.207	-7.550	1.00	78.64	A16S
ATOM	11593	O4	U	A	561	162.310	101.192	-6.624	1.00	78.64	A16S
ATOM	11594	C5	U	A	561	160.499	102.208	-7.759	1.00	78.64	A16S
ATOM	11595	C2*	U	A	561	156.957	100.723	-9.697	1.00	58.46	A16S
ATOM	11596	O2*	U	A	561	156.652	99.474	-9.118	1.00	58.46	A16S
ATOM	11597	C3*	U	A	561	156.081	101.085	-10.895	1.00	58.46	A16S
ATOM	11598	O3*	U	A	561	155.806	99.908	-11.647	1.00	58.46	A16S
ATOM	11599	P	C	A	562	154.500	99.038	-11.320	1.00	57.59	A16S
ATOM	11600	O1P	C	A	562	154.145	99.254	-9.892	1.00	65.37	A16S
ATOM	11601	O2P	C	A	562	154.664	97.655	-11.841	1.00	65.37	A16S
ATOM	11602	O5*	C	A	562	153.369	99.738	-12.183	1.00	57.59	A16S
ATOM	11603	C5*	C	A	562	153.608	100.063	-13.550	1.00	57.59	A16S
ATOM	11604	C4*	C	A	562	152.546	99.461	-14.426	1.00	57.59	A16S
ATOM	11605	O4*	C	A	562	153.237	99.002	-15.604	1.00	57.59	A16S
ATOM	11606	C1*	C	A	562	153.017	97.628	-15.790	1.00	57.59	A16S
ATOM	11607	N1	C	A	562	154.241	97.047	-16.350	1.00	65.37	A16S
ATOM	11608	C6	C	A	562	155.437	97.160	-15.696	1.00	65.37	A16S
ATOM	11609	C2	C	A	562	154.165	96.388	-17.581	1.00	65.37	A16S
ATOM	11610	O2	C	A	562	153.067	96.309	-18.157	1.00	65.37	A16S
ATOM	11611	N3	C	A	562	155.287	95.864	-18.117	1.00	65.37	A16S
ATOM	11612	C4	C	A	562	156.457	95.992	-17.475	1.00	65.37	A16S
ATOM	11613	N4	C	A	562	157.553	95.468	-18.049	1.00	65.37	A16S
ATOM	11614	C5	C	A	562	156.559	96.662	-16.220	1.00	65.37	A16S
ATOM	11615	C2*	C	A	562	152.587	97.074	-14.440	1.00	57.59	A16S
ATOM	11616	O2*	C	A	562	151.821	95.902	-14.653	1.00	57.59	A16S
ATOM	11617	C3*	C	A	562	151.795	98.252	-13.873	1.00	57.59	A16S
ATOM	11618	O3*	C	A	562	150.474	98.209	-14.437	1.00	57.59	A16S
ATOM	11619	P	A	A	563	149.261	99.054	-13.775	1.00	64.72	A16S
ATOM	11620	O1P	A	A	563	149.415	99.104	-12.279	1.00	53.61	A16S



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ATOM	11621	O2P	A	A	563	147.982	98.538	-14.372	1.00	53.61	A16S
ATOM	11622	O5*	A	A	563	149.486	100.535	-14.336	1.00	64.72	A16S
ATOM	11623	C5*	A	A	563	148.618	101.608	-13.937	1.00	64.72	A16S
ATOM	11624	C4*	A	A	563	149.120	102.925	-14.468	1.00	64.72	A16S
ATOM	11625	O4*	A	A	563	150.434	103.220	-13.953	1.00	64.72	A16S
ATOM	11626	C1*	A	A	563	151.003	104.214	-14.768	1.00	64.72	A16S
ATOM	11627	N9	A	A	563	152.458	104.085	-14.780	1.00	53.61	A16S
ATOM	11628	C4	A	A	563	153.233	103.256	-15.548	1.00	53.61	A16S
ATOM	11629	N3	A	A	563	152.816	102.366	-16.458	1.00	53.61	A16S
ATOM	11630	C2	A	A	563	153.856	101.751	-17.017	1.00	53.61	A16S
ATOM	11631	N1	A	A	563	155.158	101.910	-16.777	1.00	53.61	A16S
ATOM	11632	C6	A	A	563	155.534	102.812	-15.842	1.00	53.61	A16S
ATOM	11633	N6	A	A	563	156.830	102.969	-15.579	1.00	53.61	A16S
ATOM	11634	C5	A	A	563	154.540	103.532	-15.196	1.00	53.61	A16S
ATOM	11635	N7	A	A	563	154.596	104.518	-14.225	1.00	53.61	A16S
ATOM	11636	C8	A	A	563	153.338	104.810	-14.009	1.00	53.61	A16S
ATOM	11637	C2*	A	A	563	150.299	104.178	-16.128	1.00	64.72	A16S
ATOM	11638	O2*	A	A	563	149.681	105.431	-16.342	1.00	64.72	A16S
ATOM	11639	C3*	A	A	563	149.303	103.026	-15.968	1.00	64.72	A16S
ATOM	11640	O3*	A	A	563	148.061	103.403	-16.529	1.00	64.72	A16S
ATOM	11641	P	C	A	564	147.436	102.561	-17.731	1.00	57.61	A16S
ATOM	11642	O1P	C	A	564	147.704	101.117	-17.446	1.00	71.87	A16S
ATOM	11643	O2P	C	A	564	147.884	103.165	-19.009	1.00	71.87	A16S
ATOM	11644	O5*	C	A	564	145.874	102.800	-17.543	1.00	57.61	A16S
ATOM	11645	C5*	C	A	564	145.019	103.191	-18.635	1.00	57.61	A16S
ATOM	11646	C4*	C	A	564	143.683	103.659	-18.092	1.00	57.61	A16S
ATOM	11647	O4*	C	A	564	143.008	102.546	-17.444	1.00	57.61	A16S
ATOM	11648	C1*	C	A	564	142.358	102.995	-16.268	1.00	57.61	A16S
ATOM	11649	N1	C	A	564	142.944	102.287	-15.117	1.00	71.87	A16S
ATOM	11650	C6	C	A	564	144.033	101.481	-15.276	1.00	71.87	A16S
ATOM	11651	C2	C	A	564	142.379	102.462	-13.849	1.00	71.87	A16S
ATOM	11652	O2	C	A	564	141.377	103.190	-13.725	1.00	71.87	A16S
ATOM	11653	N3	C	A	564	142.936	101.838	-12.787	1.00	71.87	A16S
ATOM	11654	C4	C	A	564	144.004	101.061	-12.952	1.00	71.87	A16S
ATOM	11655	N4	C	A	564	144.522	100.464	-11.869	1.00	71.87	A16S
ATOM	11656	C5	C	A	564	144.592	100.858	-14.232	1.00	71.87	A16S
ATOM	11657	C2*	C	A	564	142.549	104.513	-16.178	1.00	57.61	A16S
ATOM	11658	O2*	C	A	564	141.452	105.174	-16.757	1.00	57.61	A16S
ATOM	11659	C3*	C	A	564	143.800	104.721	-17.009	1.00	57.61	A16S
ATOM	11660	O3*	C	A	564	143.835	106.024	-17.557	1.00	57.61	A16S
ATOM	11661	P	U	A	565	144.756	107.137	-16.867	1.00	61.20	A16S
ATOM	11662	O1P	U	A	565	144.522	108.401	-17.609	1.00	71.64	A16S
ATOM	11663	O2P	U	A	565	146.141	106.612	-16.739	1.00	71.64	A16S
ATOM	11664	O5*	U	A	565	144.124	107.282	-15.417	1.00	61.20	A16S
ATOM	11665	C5*	U	A	565	142.916	108.011	-15.241	1.00	61.20	A16S
ATOM	11666	C4*	U	A	565	142.510	108.000	-13.803	1.00	61.20	A16S
ATOM	11667	O4*	U	A	565	142.349	106.624	-13.385	1.00	61.20	A16S
ATOM	11668	C1*	U	A	565	142.624	106.524	-11.996	1.00	61.20	A16S
ATOM	11669	N1	U	A	565	143.618	105.467	-11.774	1.00	71.64	A16S
ATOM	11670	C6	U	A	565	144.641	105.261	-12.656	1.00	71.64	A16S
ATOM	11671	C2	U	A	565	143.487	104.684	-10.638	1.00	71.64	A16S
ATOM	11672	O2	U	A	565	142.598	104.841	-9.814	1.00	71.64	A16S
ATOM	11673	N3	U	A	565	144.441	103.712	-10.497	1.00	71.64	A16S
ATOM	11674	C4	U	A	565	145.493	103.458	-11.345	1.00	71.64	A16S
ATOM	11675	O4	U	A	565	146.287	102.559	-11.074	1.00	71.64	A16S
ATOM	11676	C5	U	A	565	145.557	104.313	-12.484	1.00	71.64	A16S
ATOM	11677	C2*	U	A	565	143.071	107.901	-11.503	1.00	61.20	A16S
ATOM	11678	O2*	U	A	565	141.962	108.568	-10.927	1.00	61.20	A16S
ATOM	11679	C3*	U	A	565	143.502	108.569	-12.801	1.00	61.20	A16S
ATOM	11680	O3*	U	A	565	143.431	109.988	-12.688	1.00	61.20	A16S
ATOM	11681	P	G	A	566	144.759	110.816	-12.302	1.00	65.41	A16S
ATOM	11682	O1P	G	A	566	144.579	112.246	-12.723	1.00	64.47	A16S
ATOM	11683	O2P	G	A	566	145.053	110.518	-10.859	1.00	64.47	A16S
ATOM	11684	O5*	G	A	566	145.850	110.091	-13.228	1.00	65.41	A16S
ATOM	11685	C5*	G	A	566	147.160	110.661	-13.456	1.00	65.41	A16S
ATOM	11686	C4*	G	A	566	148.168	109.577	-13.805	1.00	65.41	A16S
ATOM	11687	O4*	G	A	566	148.510	108.808	-12.624	1.00	65.41	A16S
ATOM	11688	C1*	G	A	566	148.318	107.437	-12.883	1.00	65.41	A16S
ATOM	11689	N9	G	A	566	147.880	106.807	-11.646	1.00	64.47	A16S
ATOM	11690	C4	G	A	566	148.396	105.672	-11.068	1.00	64.47	A16S
ATOM	11691	N3	G	A	566	149.373	104.892	-11.574	1.00	64.47	A16S
ATOM	11692	C2	G	A	566	149.667	103.887	-10.766	1.00	64.47	A16S
ATOM	11693	N2	G	A	566	150.599	102.997	-11.116	1.00	64.47	A16S
ATOM	11694	N1	G	A	566	149.065	103.679	-9.553	1.00	64.47	A16S
ATOM	11695	C6	G	A	566	148.071	104.483	-9.008	1.00	64.47	A16S
ATOM	11696	O6	G	A	566	147.625	104.237	-7.882	1.00	64.47	A16S
ATOM	11697	C5	G	A	566	147.725	105.537	-9.876	1.00	64.47	A16S



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ATOM	11698	N7	G	A	566	146.782	106.536	-9.728	1.00	64.47	A16S
ATOM	11699	C8	G	A	566	146.903	107.258	-10.806	1.00	64.47	A16S
ATOM	11700	C2*	G	A	566	147.329	107.362	-14.043	1.00	65.41	A16S
ATOM	11701	O2*	G	A	566	147.533	106.164	-14.750	1.00	65.41	A16S
ATOM	11702	C3*	G	A	566	147.744	108.572	-14.869	1.00	65.41	A16S
ATOM	11703	O3*	G	A	566	148.896	108.177	-15.595	1.00	65.41	A16S
ATOM	11704	P	G	A	567	149.426	109.060	-16.824	1.00	76.65	A16S
ATOM	11705	O1P	G	A	567	148.876	108.465	-18.077	1.00	92.14	A16S
ATOM	11706	O2P	G	A	567	149.223	110.503	-16.544	1.00	92.14	A16S
ATOM	11707	O5*	G	A	567	150.990	108.774	-16.782	1.00	63.27	A16S
ATOM	11708	C5*	G	A	567	151.753	109.035	-15.592	1.00	63.27	A16S
ATOM	11709	C4*	G	A	567	153.198	108.616	-15.778	1.00	63.27	A16S
ATOM	11710	O4*	G	A	567	153.328	107.173	-15.798	1.00	63.27	A16S
ATOM	11711	C1*	G	A	567	154.456	106.808	-16.578	1.00	63.27	A16S
ATOM	11712	N9	G	A	567	154.049	105.835	-17.587	1.00	53.88	A16S
ATOM	11713	C4	G	A	567	154.883	104.991	-18.289	1.00	53.88	A16S
ATOM	11714	N3	G	A	567	156.229	104.931	-18.179	1.00	53.88	A16S
ATOM	11715	C2	G	A	567	156.749	104.026	-18.996	1.00	53.88	A16S
ATOM	11716	N2	G	A	567	158.079	103.862	-19.041	1.00	53.88	A16S
ATOM	11717	N1	G	A	567	156.001	103.227	-19.833	1.00	53.88	A16S
ATOM	11718	C6	G	A	567	154.615	103.275	-19.957	1.00	53.88	A16S
ATOM	11719	O6	G	A	567	154.033	102.512	-20.739	1.00	53.88	A16S
ATOM	11720	C5	G	A	567	154.052	104.254	-19.110	1.00	53.88	A16S
ATOM	11721	N7	G	A	567	152.728	104.636	-18.942	1.00	53.88	A16S
ATOM	11722	C8	G	A	567	152.774	105.572	-18.029	1.00	53.88	A16S
ATOM	11723	C2*	G	A	567	155.049	108.084	-17.173	1.00	63.27	A16S
ATOM	11724	O2*	G	A	567	156.185	108.463	-16.414	1.00	63.27	A16S
ATOM	11725	C3*	G	A	567	153.879	109.056	-17.058	1.00	63.27	A16S
ATOM	11726	O3*	G	A	567	154.305	110.398	-16.965	1.00	63.27	A16S
ATOM	11727	P	G	A	568	154.544	111.247	-18.304	1.00	66.31	A16S
ATOM	11728	O1P	G	A	568	154.581	112.662	-17.870	1.00	55.95	A16S
ATOM	11729	O2P	G	A	568	153.619	110.833	-19.418	1.00	55.95	A16S
ATOM	11730	O5*	G	A	568	156.014	110.822	-18.714	1.00	66.31	A16S
ATOM	11731	C5*	G	A	568	156.324	110.480	-20.067	1.00	66.31	A16S
ATOM	11732	C4*	G	A	568	157.271	109.330	-20.074	1.00	66.31	A16S
ATOM	11733	O4*	G	A	568	156.541	108.109	-19.826	1.00	66.31	A16S
ATOM	11734	C1*	G	A	568	157.175	107.039	-20.495	1.00	66.31	A16S
ATOM	11735	N9	G	A	568	156.200	106.380	-21.369	1.00	55.95	A16S
ATOM	11736	C4	G	A	568	156.464	105.430	-22.333	1.00	55.95	A16S
ATOM	11737	N3	G	A	568	157.681	104.968	-22.677	1.00	55.95	A16S
ATOM	11738	C2	G	A	568	157.614	104.043	-23.615	1.00	55.95	A16S
ATOM	11739	N2	G	A	568	158.740	103.486	-24.084	1.00	55.95	A16S
ATOM	11740	N1	G	A	568	156.446	103.601	-24.165	1.00	55.95	A16S
ATOM	11741	C6	G	A	568	155.183	104.068	-23.836	1.00	55.95	A16S
ATOM	11742	O6	G	A	568	154.198	103.607	-24.406	1.00	55.95	A16S
ATOM	11743	C5	G	A	568	155.238	105.065	-22.836	1.00	55.95	A16S
ATOM	11744	N7	G	A	568	154.222	105.781	-22.226	1.00	55.95	A16S
ATOM	11745	C8	G	A	568	154.837	106.554	-21.372	1.00	55.95	A16S
ATOM	11746	C2*	G	A	568	158.406	107.617	-21.198	1.00	66.31	A16S
ATOM	11747	O2*	G	A	568	159.495	107.542	-20.297	1.00	66.31	A16S
ATOM	11748	C3*	G	A	568	158.007	109.071	-21.367	1.00	66.31	A16S
ATOM	11749	O3*	G	A	568	159.136	109.932	-21.466	1.00	66.31	A16S
ATOM	11750	P	C	A	569	159.423	110.709	-22.847	1.00	70.54	A16S
ATOM	11751	O1P	C	A	569	160.426	111.772	-22.553	1.00	53.33	A16S
ATOM	11752	O2P	C	A	569	158.114	111.077	-23.475	1.00	53.33	A16S
ATOM	11753	O5*	C	A	569	160.104	109.600	-23.769	1.00	70.54	A16S
ATOM	11754	C5*	C	A	569	161.439	109.137	-23.513	1.00	70.54	A16S
ATOM	11755	C4*	C	A	569	161.871	108.205	-24.609	1.00	70.54	A16S
ATOM	11756	O4*	C	A	569	161.103	106.982	-24.540	1.00	70.54	A16S
ATOM	11757	C1*	C	A	569	160.806	106.532	-25.849	1.00	70.54	A16S
ATOM	11758	N1	C	A	569	159.340	106.414	-25.974	1.00	53.33	A16S
ATOM	11759	C6	C	A	569	158.509	107.260	-25.292	1.00	53.33	A16S
ATOM	11760	C2	C	A	569	158.798	105.402	-26.796	1.00	53.33	A16S
ATOM	11761	O2	C	A	569	159.570	104.638	-27.413	1.00	53.33	A16S
ATOM	11762	N3	C	A	569	157.449	105.278	-26.890	1.00	53.33	A16S
ATOM	11763	C4	C	A	569	156.657	106.100	-26.204	1.00	53.33	A16S
ATOM	11764	N4	C	A	569	155.350	105.926	-26.308	1.00	53.33	A16S
ATOM	11765	C5	C	A	569	157.178	107.134	-25.373	1.00	53.33	A16S
ATOM	11766	C2*	C	A	569	161.466	107.491	-26.843	1.00	70.54	A16S
ATOM	11767	O2*	C	A	569	162.710	106.944	-27.227	1.00	70.54	A16S
ATOM	11768	C3*	C	A	569	161.635	108.750	-26.003	1.00	70.54	A16S
ATOM	11769	O3*	C	A	569	162.781	109.485	-26.391	1.00	70.54	A16S
ATOM	11770	P	G	A	570	162.613	110.893	-27.137	1.00	61.63	A16S
ATOM	11771	O1P	G	A	570	162.225	111.878	-26.097	1.00	76.45	A16S
ATOM	11772	O2P	G	A	570	161.729	110.680	-28.324	1.00	76.45	A16S
ATOM	11773	O5*	G	A	570	164.085	111.224	-27.665	1.00	61.63	A16S
ATOM	11774	C5*	G	A	570	164.579	110.632	-28.899	1.00	61.63	A16S



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ATOM	11775	C4*	G	A	570	165.814	111.356	-29.386	1.00	61.63	A16S
ATOM	11776	O4*	G	A	570	165.509	112.767	-29.522	1.00	61.63	A16S
ATOM	11777	C1*	G	A	570	166.616	113.544	-29.114	1.00	61.63	A16S
ATOM	11778	N9	G	A	570	166.173	114.455	-28.055	1.00	76.45	A16S
ATOM	11779	C4	G	A	570	166.952	115.132	-27.137	1.00	76.45	A16S
ATOM	11780	N3	G	A	570	168.292	115.068	-27.027	1.00	76.45	A16S
ATOM	11781	C2	G	A	570	168.746	115.847	-26.057	1.00	76.45	A16S
ATOM	11782	N2	G	A	570	170.059	115.907	-25.811	1.00	76.45	A16S
ATOM	11783	N1	G	A	570	167.950	116.623	-25.258	1.00	76.45	A16S
ATOM	11784	C6	G	A	570	166.570	116.705	-25.352	1.00	76.45	A16S
ATOM	11785	O6	G	A	570	165.947	117.440	-24.585	1.00	76.45	A16S
ATOM	11786	C5	G	A	570	166.067	115.878	-26.386	1.00	76.45	A16S
ATOM	11787	N7	G	A	570	164.765	115.674	-26.812	1.00	76.45	A16S
ATOM	11788	C8	G	A	570	164.875	114.823	-27.796	1.00	76.45	A16S
ATOM	11789	C2*	G	A	570	167.761	112.577	-28.784	1.00	61.63	A16S
ATOM	11790	O2*	G	A	570	168.539	112.459	-29.958	1.00	61.63	A16S
ATOM	11791	C3*	G	A	570	167.020	111.281	-28.466	1.00	61.63	A16S
ATOM	11792	O3*	G	A	570	167.800	110.138	-28.819	1.00	61.63	A16S
ATOM	11793	P	U	A	571	168.026	108.949	-27.753	1.00	51.64	A16S
ATOM	11794	O1P	U	A	571	168.493	107.715	-28.437	1.00	69.44	A16S
ATOM	11795	O2P	U	A	571	166.843	108.883	-26.852	1.00	69.44	A16S
ATOM	11796	O5*	U	A	571	169.277	109.436	-26.913	1.00	51.64	A16S
ATOM	11797	C5*	U	A	571	170.578	109.460	-27.507	1.00	51.64	A16S
ATOM	11798	C4*	U	A	571	171.502	110.309	-26.680	1.00	51.64	A16S
ATOM	11799	O4*	U	A	571	171.032	111.685	-26.691	1.00	51.64	A16S
ATOM	11800	C1*	U	A	571	171.296	112.278	-25.435	1.00	51.64	A16S
ATOM	11801	N1	U	A	571	170.022	112.743	-24.865	1.00	69.44	A16S
ATOM	11802	C6	U	A	571	168.823	112.226	-25.295	1.00	69.44	A16S
ATOM	11803	C2	U	A	571	170.063	113.736	-23.895	1.00	69.44	A16S
ATOM	11804	O2	U	A	571	171.106	114.204	-23.461	1.00	69.44	A16S
ATOM	11805	N3	U	A	571	168.835	114.161	-23.460	1.00	69.44	A16S
ATOM	11806	C4	U	A	571	167.605	113.706	-23.880	1.00	69.44	A16S
ATOM	11807	O4	U	A	571	166.593	114.284	-23.506	1.00	69.44	A16S
ATOM	11808	C5	U	A	571	167.651	112.662	-24.848	1.00	69.44	A16S
ATOM	11809	C2*	U	A	571	172.028	111.245	-24.574	1.00	51.64	A16S
ATOM	11810	O2*	U	A	571	173.422	111.457	-24.715	1.00	51.64	A16S
ATOM	11811	C3*	U	A	571	171.580	109.936	-25.210	1.00	51.64	A16S
ATOM	11812	O3*	U	A	571	172.487	108.862	-24.993	1.00	51.64	A16S
ATOM	11813	P	A	A	572	171.911	107.384	-24.692	1.00	57.33	A16S
ATOM	11814	O1P	A	A	572	173.065	106.410	-24.863	1.00	75.65	A16S
ATOM	11815	O2P	A	A	572	170.630	107.157	-25.440	1.00	75.65	A16S
ATOM	11816	O5*	A	A	572	171.537	107.409	-23.148	1.00	57.33	A16S
ATOM	11817	C5*	A	A	572	170.459	108.200	-22.630	1.00	57.33	A16S
ATOM	11818	C4*	A	A	572	170.241	107.830	-21.190	1.00	57.33	A16S
ATOM	11819	O4*	A	A	572	169.460	108.811	-20.490	1.00	57.33	A16S
ATOM	11820	C1*	A	A	572	168.951	108.216	-19.318	1.00	57.33	A16S
ATOM	11821	N9	A	A	572	167.661	108.835	-19.004	1.00	75.65	A16S
ATOM	11822	C4	A	A	572	167.527	109.992	-18.279	1.00	75.65	A16S
ATOM	11823	N3	A	A	572	168.503	110.693	-17.693	1.00	75.65	A16S
ATOM	11824	C2	A	A	572	168.016	111.789	-17.130	1.00	75.65	A16S
ATOM	11825	N1	A	A	572	166.762	112.240	-17.096	1.00	75.65	A16S
ATOM	11826	C6	A	A	572	165.804	111.521	-17.698	1.00	75.65	A16S
ATOM	11827	N6	A	A	572	164.563	112.002	-17.688	1.00	75.65	A16S
ATOM	11828	C5	A	A	572	166.186	110.313	-18.314	1.00	75.65	A16S
ATOM	11829	N7	A	A	572	165.470	109.337	-18.991	1.00	75.65	A16S
ATOM	11830	C8	A	A	572	166.389	108.479	-19.372	1.00	75.65	A16S
ATOM	11831	C2*	A	A	572	169.036	106.689	-19.485	1.00	57.33	A16S
ATOM	11832	O2*	A	A	572	169.963	106.168	-18.551	1.00	57.33	A16S
ATOM	11833	C3*	A	A	572	169.513	106.529	-20.933	1.00	57.33	A16S
ATOM	11834	O3*	A	A	572	170.443	105.456	-21.049	1.00	57.33	A16S
ATOM	11835	P	A	A	573	170.246	104.331	-22.187	1.00	60.89	A16S
ATOM	11836	O1P	A	A	573	171.517	103.576	-22.235	1.00	72.10	A16S
ATOM	11837	O2P	A	A	573	169.728	104.965	-23.434	1.00	72.10	A16S
ATOM	11838	O5*	A	A	573	169.132	103.389	-21.557	1.00	60.89	A16S
ATOM	11839	C5*	A	A	573	169.329	101.980	-21.437	1.00	60.89	A16S
ATOM	11840	C4*	A	A	573	168.007	101.271	-21.578	1.00	60.89	A16S
ATOM	11841	O4*	A	A	573	167.200	101.495	-20.392	1.00	60.89	A16S
ATOM	11842	C1*	A	A	573	165.839	101.669	-20.762	1.00	60.89	A16S
ATOM	11843	N9	A	A	573	165.379	102.951	-20.206	1.00	72.10	A16S
ATOM	11844	C4	A	A	573	164.107	103.291	-19.806	1.00	72.10	A16S
ATOM	11845	N3	A	A	573	162.999	102.543	-19.884	1.00	72.10	A16S
ATOM	11846	C2	A	A	573	161.955	103.193	-19.374	1.00	72.10	A16S
ATOM	11847	N1	A	A	573	161.895	104.412	-18.832	1.00	72.10	A16S
ATOM	11848	C6	A	A	573	163.023	105.145	-18.770	1.00	72.10	A16S
ATOM	11849	N6	A	A	573	162.961	106.369	-18.225	1.00	72.10	A16S
ATOM	11850	C5	A	A	573	164.202	104.569	-19.286	1.00	72.10	A16S
ATOM	11851	N7	A	A	573	165.500	105.043	-19.386	1.00	72.10	A16S



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ATOM	11852	C8	A	A 573	166.154	104.054	-19.942	1.00	72.10	A16S
ATOM	11853	C2*	A	A 573	165.736	101.487	-22.287	1.00	60.89	A16S
ATOM	11854	O2*	A	A 573	165.327	100.158	-22.557	1.00	60.89	A16S
ATOM	11855	C3*	A	A 573	167.171	101.768	-22.745	1.00	60.89	A16S
ATOM	11856	O3*	A	A 573	167.559	101.077	-23.933	1.00	60.89	A16S
ATOM	11857	P	A	A 574	167.763	101.887	-25.316	1.00	55.76	A16S
ATOM	11858	O1P	A	A 574	168.511	100.996	-26.227	1.00	66.17	A16S
ATOM	11859	O2P	A	A 574	168.260	103.262	-25.072	1.00	66.17	A16S
ATOM	11860	O5*	A	A 574	166.290	101.966	-25.903	1.00	55.76	A16S
ATOM	11861	C5*	A	A 574	165.486	100.767	-26.016	1.00	55.76	A16S
ATOM	11862	C4*	A	A 574	164.024	101.124	-26.045	1.00	55.76	A16S
ATOM	11863	O4*	A	A 574	163.622	101.674	-24.775	1.00	55.76	A16S
ATOM	11864	C1*	A	A 574	162.708	102.725	-24.989	1.00	55.76	A16S
ATOM	11865	N9	A	A 574	163.210	103.910	-24.305	1.00	66.17	A16S
ATOM	11866	C4	A	A 574	162.548	104.555	-23.297	1.00	66.17	A16S
ATOM	11867	N3	A	A 574	161.338	104.255	-22.805	1.00	66.17	A16S
ATOM	11868	C2	A	A 574	161.031	105.073	-21.816	1.00	66.17	A16S
ATOM	11869	N1	A	A 574	161.742	106.071	-21.299	1.00	66.17	A16S
ATOM	11870	C6	A	A 574	162.954	106.335	-21.812	1.00	66.17	A16S
ATOM	11871	N6	A	A 574	163.670	107.311	-21.274	1.00	66.17	A16S
ATOM	11872	C5	A	A 574	163.391	105.558	-22.871	1.00	66.17	A16S
ATOM	11873	N7	A	A 574	164.557	105.574	-23.622	1.00	66.17	A16S
ATOM	11874	C8	A	A 574	164.396	104.582	-24.466	1.00	66.17	A16S
ATOM	11875	C2*	A	A 574	162.482	102.881	-26.490	1.00	55.76	A16S
ATOM	11876	O2*	A	A 574	161.298	102.194	-26.830	1.00	55.76	A16S
ATOM	11877	C3*	A	A 574	163.708	102.193	-27.066	1.00	55.76	A16S
ATOM	11878	O3*	A	A 574	163.397	101.534	-28.273	1.00	55.76	A16S
ATOM	11879	P	G	A 575	164.264	101.826	-29.582	1.00	65.47	A16S
ATOM	11880	O1P	G	A 575	163.565	101.117	-30.694	1.00	66.15	A16S
ATOM	11881	O2P	G	A 575	165.692	101.530	-29.286	1.00	66.15	A16S
ATOM	11882	O5*	G	A 575	164.103	103.393	-29.802	1.00	65.47	A16S
ATOM	11883	C5*	G	A 575	162.807	103.945	-30.090	1.00	65.47	A16S
ATOM	11884	C4*	G	A 575	162.454	103.675	-31.521	1.00	65.47	A16S
ATOM	11885	O4*	G	A 575	161.028	103.678	-31.713	1.00	65.47	A16S
ATOM	11886	C1*	G	A 575	160.653	104.645	-32.672	1.00	65.47	A16S
ATOM	11887	N9	G	A 575	159.520	105.339	-32.074	1.00	66.15	A16S
ATOM	11888	C4	G	A 575	158.195	105.146	-32.360	1.00	66.15	A16S
ATOM	11889	N3	G	A 575	157.702	104.351	-33.323	1.00	66.15	A16S
ATOM	11890	C2	G	A 575	156.376	104.323	-33.312	1.00	66.15	A16S
ATOM	11891	N2	G	A 575	155.717	103.586	-34.208	1.00	66.15	A16S
ATOM	11892	N1	G	A 575	155.594	105.013	-32.426	1.00	66.15	A16S
ATOM	11893	C6	G	A 575	156.075	105.837	-31.418	1.00	66.15	A16S
ATOM	11894	O6	G	A 575	155.273	106.414	-30.652	1.00	66.15	A16S
ATOM	11895	C5	G	A 575	157.507	105.887	-31.424	1.00	66.15	A16S
ATOM	11896	N7	G	A 575	158.385	106.581	-30.606	1.00	66.15	A16S
ATOM	11897	C8	G	A 575	159.564	106.242	-31.042	1.00	66.15	A16S
ATOM	11898	C2*	G	A 575	161.876	105.520	-32.960	1.00	65.47	A16S
ATOM	11899	O2*	G	A 575	161.919	105.956	-34.304	1.00	65.47	A16S
ATOM	11900	C3*	G	A 575	163.045	104.627	-32.525	1.00	65.47	A16S
ATOM	11901	O3*	G	A 575	164.005	103.956	-33.379	1.00	65.47	A16S
ATOM	11902	P	G	A 576	163.565	103.026	-34.629	1.00	61.48	A16S
ATOM	11903	O1P	G	A 576	164.723	102.076	-34.690	1.00	59.62	A16S
ATOM	11904	O2P	G	A 576	163.205	103.868	-35.834	1.00	59.62	A16S
ATOM	11905	O5*	G	A 576	162.312	102.145	-34.179	1.00	61.48	A16S
ATOM	11906	C5*	G	A 576	162.499	100.815	-33.656	1.00	61.48	A16S
ATOM	11907	C4*	G	A 576	162.079	99.751	-34.664	1.00	61.48	A16S
ATOM	11908	O4*	G	A 576	160.652	99.503	-34.644	1.00	61.48	A16S
ATOM	11909	C1*	G	A 576	160.179	99.345	-35.960	1.00	61.48	A16S
ATOM	11910	N9	G	A 576	158.858	99.946	-36.024	1.00	59.62	A16S
ATOM	11911	C4	G	A 576	157.671	99.351	-36.395	1.00	59.62	A16S
ATOM	11912	N3	G	A 576	157.498	98.069	-36.765	1.00	59.62	A16S
ATOM	11913	C2	G	A 576	156.237	97.825	-37.096	1.00	59.62	A16S
ATOM	11914	N2	G	A 576	155.879	96.622	-37.498	1.00	59.62	A16S
ATOM	11915	N1	G	A 576	155.233	98.748	-37.064	1.00	59.62	A16S
ATOM	11916	C6	G	A 576	155.391	100.075	-36.695	1.00	59.62	A16S
ATOM	11917	O6	G	A 576	154.422	100.856	-36.733	1.00	59.62	A16S
ATOM	11918	C5	G	A 576	156.729	100.353	-36.326	1.00	59.62	A16S
ATOM	11919	N7	G	A 576	157.302	101.537	-35.896	1.00	59.62	A16S
ATOM	11920	C8	G	A 576	158.560	101.248	-35.727	1.00	59.62	A16S
ATOM	11921	C2*	G	A 576	161.173	100.083	-36.850	1.00	61.48	A16S
ATOM	11922	O2*	G	A 576	161.115	99.498	-38.129	1.00	61.48	A16S
ATOM	11923	C3*	G	A 576	162.497	99.839	-36.127	1.00	61.48	A16S
ATOM	11924	O3*	G	A 576	162.964	98.551	-36.506	1.00	61.48	A16S
ATOM	11925	P	G	A 577	164.388	98.389	-37.229	1.00	63.24	A16S
ATOM	11926	O1P	G	A 577	164.325	97.080	-37.961	1.00	51.57	A16S
ATOM	11927	O2P	G	A 577	165.469	98.636	-36.247	1.00	51.57	A16S
ATOM	11928	O5*	G	A 577	164.412	99.566	-38.289	1.00	63.24	A16S



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ATOM	11929	C5*	G	A	577	165.295	100.674	-38.133	1.00	63.24	A16S
ATOM	11930	C4*	G	A	577	165.629	101.229	-39.486	1.00	63.24	A16S
ATOM	11931	O4*	G	A	577	166.313	100.197	-40.232	1.00	63.24	A16S
ATOM	11932	C1*	G	A	577	165.888	100.227	-41.572	1.00	63.24	A16S
ATOM	11933	N9	G	A	577	165.246	98.963	-41.892	1.00	51.57	A16S
ATOM	11934	C4	G	A	577	164.718	98.676	-43.116	1.00	51.57	A16S
ATOM	11935	N3	G	A	577	164.679	99.525	-44.162	1.00	51.57	A16S
ATOM	11936	C2	G	A	577	164.130	98.983	-45.215	1.00	51.57	A16S
ATOM	11937	N2	G	A	577	163.986	99.721	-46.323	1.00	51.57	A16S
ATOM	11938	N1	G	A	577	163.675	97.690	-45.256	1.00	51.57	A16S
ATOM	11939	C6	G	A	577	163.709	96.794	-44.194	1.00	51.57	A16S
ATOM	11940	O6	G	A	577	163.285	95.649	-44.347	1.00	51.57	A16S
ATOM	11941	C5	G	A	577	164.275	97.383	-43.034	1.00	51.57	A16S
ATOM	11942	N7	G	A	577	164.486	96.871	-41.755	1.00	51.57	A16S
ATOM	11943	C8	G	A	577	165.061	97.851	-41.109	1.00	51.57	A16S
ATOM	11944	C2*	G	A	577	164.899	101.368	-41.749	1.00	63.24	A16S
ATOM	11945	O2*	G	A	577	165.562	102.468	-42.317	1.00	63.24	A16S
ATOM	11946	C3*	G	A	577	164.402	101.535	-40.325	1.00	63.24	A16S
ATOM	11947	O3*	G	A	577	163.859	102.804	-40.041	1.00	63.24	A16S
ATOM	11948	P	C	A	578	162.268	103.003	-40.092	1.00	65.51	A16S
ATOM	11949	O1P	C	A	578	162.047	104.287	-39.373	1.00	45.65	A16S
ATOM	11950	O2P	C	A	578	161.529	101.776	-39.670	1.00	45.65	A16S
ATOM	11951	O5*	C	A	578	161.988	103.174	-41.643	1.00	65.51	A16S
ATOM	11952	C5*	C	A	578	162.550	104.266	-42.356	1.00	65.51	A16S
ATOM	11953	C4*	C	A	578	162.070	104.241	-43.773	1.00	65.51	A16S
ATOM	11954	O4*	C	A	578	162.667	103.112	-44.448	1.00	65.51	A16S
ATOM	11955	C1*	C	A	578	161.744	102.569	-45.361	1.00	65.51	A16S
ATOM	11956	N1	C	A	578	161.435	101.197	-44.939	1.00	45.65	A16S
ATOM	11957	C6	C	A	578	161.626	100.799	-43.647	1.00	45.65	A16S
ATOM	11958	C2	C	A	578	160.928	100.290	-45.892	1.00	45.65	A16S
ATOM	11959	O2	C	A	578	160.780	100.664	-47.068	1.00	45.65	A16S
ATOM	11960	N3	C	A	578	160.616	99.034	-45.511	1.00	45.65	A16S
ATOM	11961	C4	C	A	578	160.804	98.661	-44.248	1.00	45.65	A16S
ATOM	11962	N4	C	A	578	160.483	97.406	-43.922	1.00	45.65	A16S
ATOM	11963	C5	C	A	578	161.329	99.555	-43.263	1.00	45.65	A16S
ATOM	11964	C2*	C	A	578	160.508	103.466	-45.354	1.00	65.51	A16S
ATOM	11965	O2*	C	A	578	160.693	104.457	-46.344	1.00	65.51	A16S
ATOM	11966	C3*	C	A	578	160.572	104.065	-43.958	1.00	65.51	A16S
ATOM	11967	O3*	C	A	578	159.899	105.323	-43.856	1.00	65.51	A16S
ATOM	11968	P	G	A	579	158.300	105.416	-44.067	1.00	68.81	A16S
ATOM	11969	O1P	G	A	579	157.982	106.870	-43.852	1.00	63.60	A16S
ATOM	11970	O2P	G	A	579	157.615	104.364	-43.244	1.00	63.60	A16S
ATOM	11971	O5*	G	A	579	158.097	105.100	-45.618	1.00	68.81	A16S
ATOM	11972	C5*	G	A	579	156.832	104.681	-46.136	1.00	68.81	A16S
ATOM	11973	C4*	G	A	579	157.033	104.014	-47.470	1.00	68.81	A16S
ATOM	11974	O4*	G	A	579	157.949	102.910	-47.315	1.00	68.81	A16S
ATOM	11975	C1*	G	A	579	157.520	101.812	-48.097	1.00	68.81	A16S
ATOM	11976	N9	G	A	579	157.226	100.742	-47.159	1.00	63.60	A16S
ATOM	11977	C4	G	A	579	156.747	99.486	-47.415	1.00	63.60	A16S
ATOM	11978	N3	G	A	579	156.424	98.983	-48.626	1.00	63.60	A16S
ATOM	11979	C2	G	A	579	155.997	97.721	-48.535	1.00	63.60	A16S
ATOM	11980	N2	G	A	579	155.632	97.047	-49.643	1.00	63.60	A16S
ATOM	11981	N1	G	A	579	155.897	97.028	-47.345	1.00	63.60	A16S
ATOM	11982	C6	G	A	579	156.217	97.547	-46.089	1.00	63.60	A16S
ATOM	11983	O6	G	A	579	156.074	96.858	-45.064	1.00	63.60	A16S
ATOM	11984	C5	G	A	579	156.676	98.870	-46.180	1.00	63.60	A16S
ATOM	11985	N7	G	A	579	157.090	99.723	-45.179	1.00	63.60	A16S
ATOM	11986	C8	G	A	579	157.403	100.818	-45.803	1.00	63.60	A16S
ATOM	11987	C2*	G	A	579	156.336	102.280	-48.940	1.00	68.81	A16S
ATOM	11988	O2*	G	A	579	156.845	102.794	-50.159	1.00	68.81	A16S
ATOM	11989	C3*	G	A	579	155.785	103.408	-48.080	1.00	68.81	A16S
ATOM	11990	O3*	G	A	579	155.169	104.396	-48.881	1.00	68.81	A16S
ATOM	11991	P	U	A	580	153.600	104.673	-48.728	1.00	70.49	A16S
ATOM	11992	O1P	U	A	580	153.288	105.816	-49.634	1.00	69.19	A16S
ATOM	11993	O2P	U	A	580	153.309	104.791	-47.274	1.00	69.19	A16S
ATOM	11994	O5*	U	A	580	152.924	103.331	-49.270	1.00	70.49	A16S
ATOM	11995	C5*	U	A	580	152.797	103.074	-50.680	1.00	70.49	A16S
ATOM	11996	C4*	U	A	580	152.339	101.654	-50.905	1.00	70.49	A16S
ATOM	11997	O4*	U	A	580	153.319	100.758	-50.329	1.00	70.49	A16S
ATOM	11998	C1*	U	A	580	152.676	99.602	-49.818	1.00	70.49	A16S
ATOM	11999	N1	U	A	580	152.953	99.508	-48.378	1.00	69.19	A16S
ATOM	12000	C6	U	A	580	153.413	100.582	-47.661	1.00	69.19	A16S
ATOM	12001	C2	U	A	580	152.734	98.283	-47.760	1.00	69.19	A16S
ATOM	12002	O2	U	A	580	152.325	97.299	-48.362	1.00	69.19	A16S
ATOM	12003	N3	U	A	580	153.016	98.247	-46.416	1.00	69.19	A16S
ATOM	12004	C4	U	A	580	153.493	99.276	-45.644	1.00	69.19	A16S
ATOM	12005	O4	U	A	580	153.850	99.045	-44.486	1.00	69.19	A16S



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ATOM	12006	C5	U	A	580	153.681	100.511	-46.353	1.00	69.19	A16S
ATOM	12007	C2*	U	A	580	151.186	99.736	-50.104	1.00	70.49	A16S
ATOM	12008	O2*	U	A	580	150.870	99.038	-51.293	1.00	70.49	A16S
ATOM	12009	C3*	U	A	580	151.042	101.243	-50.226	1.00	70.49	A16S
ATOM	12010	O3*	U	A	580	149.890	101.607	-50.957	1.00	70.49	A16S
ATOM	12011	P	G	A	581	148.650	102.259	-50.179	1.00	70.60	A16S
ATOM	12012	O1P	G	A	581	147.689	102.771	-51.204	1.00	75.14	A16S
ATOM	12013	O2P	G	A	581	149.185	103.191	-49.149	1.00	75.14	A16S
ATOM	12014	O5*	G	A	581	148.011	101.022	-49.416	1.00	70.60	A16S
ATOM	12015	C5*	G	A	581	147.456	99.942	-50.150	1.00	70.60	A16S
ATOM	12016	C4*	G	A	581	147.518	98.686	-49.330	1.00	70.60	A16S
ATOM	12017	O4*	G	A	581	148.851	98.586	-48.790	1.00	70.60	A16S
ATOM	12018	C1*	G	A	581	148.813	97.895	-47.560	1.00	70.60	A16S
ATOM	12019	N9	G	A	581	149.392	98.744	-46.533	1.00	75.14	A16S
ATOM	12020	C4	G	A	581	149.845	98.312	-45.323	1.00	75.14	A16S
ATOM	12021	N3	G	A	581	149.848	97.032	-44.895	1.00	75.14	A16S
ATOM	12022	C2	G	A	581	150.279	96.933	-43.654	1.00	75.14	A16S
ATOM	12023	N2	G	A	581	150.311	95.742	-43.048	1.00	75.14	A16S
ATOM	12024	N1	G	A	581	150.699	98.000	-42.910	1.00	75.14	A16S
ATOM	12025	C6	G	A	581	150.711	99.326	-43.341	1.00	75.14	A16S
ATOM	12026	O6	G	A	581	151.101	100.220	-42.586	1.00	75.14	A16S
ATOM	12027	C5	G	A	581	150.237	99.447	-44.654	1.00	75.14	A16S
ATOM	12028	N7	G	A	581	150.059	100.576	-45.445	1.00	75.14	A16S
ATOM	12029	C8	G	A	581	149.561	100.109	-46.555	1.00	75.14	A16S
ATOM	12030	C2*	G	A	581	147.358	97.570	-47.241	1.00	70.60	A16S
ATOM	12031	O2*	G	A	581	147.126	96.228	-47.596	1.00	70.60	A16S
ATOM	12032	C3*	G	A	581	146.616	98.581	-48.107	1.00	70.60	A16S
ATOM	12033	O3*	G	A	581	145.323	98.108	-48.473	1.00	70.60	A16S
ATOM	12034	P	U	A	582	144.101	98.219	-47.434	1.00	75.64	A16S
ATOM	12035	O1P	U	A	582	142.882	98.306	-48.273	1.00	73.66	A16S
ATOM	12036	O2P	U	A	582	144.380	99.284	-46.429	1.00	73.66	A16S
ATOM	12037	O5*	U	A	582	144.092	96.793	-46.723	1.00	75.64	A16S
ATOM	12038	C5*	U	A	582	143.944	95.602	-47.514	1.00	75.64	A16S
ATOM	12039	C4*	U	A	582	143.777	94.386	-46.637	1.00	75.64	A16S
ATOM	12040	O4*	U	A	582	145.054	93.912	-46.136	1.00	75.64	A16S
ATOM	12041	C1*	U	A	582	144.879	93.347	-44.849	1.00	75.64	A16S
ATOM	12042	N1	U	A	582	145.621	94.151	-43.866	1.00	73.66	A16S
ATOM	12043	C6	U	A	582	146.039	95.435	-44.138	1.00	73.66	A16S
ATOM	12044	C2	U	A	582	145.863	93.572	-42.626	1.00	73.66	A16S
ATOM	12045	O2	U	A	582	145.553	92.423	-42.362	1.00	73.66	A16S
ATOM	12046	N3	U	A	582	146.494	94.383	-41.715	1.00	73.66	A16S
ATOM	12047	C4	U	A	582	146.917	95.679	-41.914	1.00	73.66	A16S
ATOM	12048	O4	U	A	582	147.412	96.301	-40.973	1.00	73.66	A16S
ATOM	12049	C5	U	A	582	146.663	96.197	-43.233	1.00	73.66	A16S
ATOM	12050	C2*	U	A	582	143.389	93.393	-44.536	1.00	75.64	A16S
ATOM	12051	O2*	U	A	582	142.829	92.162	-44.939	1.00	75.64	A16S
ATOM	12052	C3*	U	A	582	142.941	94.567	-45.392	1.00	75.64	A16S
ATOM	12053	O3*	U	A	582	141.561	94.561	-45.668	1.00	75.64	A16S
ATOM	12054	P	A	A	583	140.566	95.316	-44.662	1.00	68.37	A16S
ATOM	12055	O1P	A	A	583	139.210	95.035	-45.179	1.00	62.22	A16S
ATOM	12056	O2P	A	A	583	141.001	96.734	-44.452	1.00	62.22	A16S
ATOM	12057	O5*	A	A	583	140.755	94.527	-43.296	1.00	68.37	A16S
ATOM	12058	C5*	A	A	583	140.292	93.187	-43.176	1.00	68.37	A16S
ATOM	12059	C4*	A	A	583	140.584	92.676	-41.804	1.00	68.37	A16S
ATOM	12060	O4*	A	A	583	142.016	92.714	-41.595	1.00	68.37	A16S
ATOM	12061	C1*	A	A	583	142.294	93.026	-40.242	1.00	68.37	A16S
ATOM	12062	N9	A	A	583	143.085	94.255	-40.208	1.00	62.22	A16S
ATOM	12063	C4	A	A	583	143.886	94.682	-39.174	1.00	62.22	A16S
ATOM	12064	N3	A	A	583	144.112	94.061	-38.005	1.00	62.22	A16S
ATOM	12065	C2	A	A	583	144.929	94.780	-37.247	1.00	62.22	A16S
ATOM	12066	N1	A	A	583	145.505	95.959	-37.502	1.00	62.22	A16S
ATOM	12067	C6	A	A	583	145.255	96.552	-38.689	1.00	62.22	A16S
ATOM	12068	N6	A	A	583	145.826	97.727	-38.954	1.00	62.22	A16S
ATOM	12069	C5	A	A	583	144.406	95.896	-39.578	1.00	62.22	A16S
ATOM	12070	N7	A	A	583	143.953	96.229	-40.843	1.00	62.22	A16S
ATOM	12071	C8	A	A	583	143.176	95.224	-41.175	1.00	62.22	A16S
ATOM	12072	C2*	A	A	583	140.955	93.179	-39.518	1.00	68.37	A16S
ATOM	12073	O2*	A	A	583	140.625	91.959	-38.881	1.00	68.37	A16S
ATOM	12074	C3*	A	A	583	140.017	93.511	-40.672	1.00	68.37	A16S
ATOM	12075	O3*	A	A	583	138.667	93.174	-40.393	1.00	68.37	A16S
ATOM	12076	P	G	A	584	137.626	94.334	-39.995	1.00	71.85	A16S
ATOM	12077	O1P	G	A	584	136.372	93.648	-39.561	1.00	68.39	A16S
ATOM	12078	O2P	G	A	584	137.576	95.321	-41.116	1.00	68.39	A16S
ATOM	12079	O5*	G	A	584	138.270	95.022	-38.704	1.00	71.85	A16S
ATOM	12080	C5*	G	A	584	138.349	94.299	-37.459	1.00	71.85	A16S
ATOM	12081	C4*	G	A	584	139.288	94.985	-36.490	1.00	71.85	A16S
ATOM	12082	O4*	G	A	584	140.617	95.078	-37.069	1.00	71.85	A16S



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ATOM	12083	C1*	G	A	584	141.257	96.258	-36.608	1.00	71.85	A16S
ATOM	12084	N9	G	A	584	141.525	97.127	-37.755	1.00	68.39	A16S
ATOM	12085	C4	G	A	584	142.353	98.232	-37.782	1.00	68.39	A16S
ATOM	12086	N3	G	A	584	143.099	98.686	-36.759	1.00	68.39	A16S
ATOM	12087	C2	G	A	584	143.765	99.780	-37.078	1.00	68.39	A16S
ATOM	12088	N2	G	A	584	144.554	100.363	-36.162	1.00	68.39	A16S
ATOM	12089	N1	G	A	584	143.707	100.385	-38.312	1.00	68.39	A16S
ATOM	12090	C6	G	A	584	142.944	99.940	-39.383	1.00	68.39	A16S
ATOM	12091	O6	G	A	584	142.945	100.575	-40.452	1.00	68.39	A16S
ATOM	12092	C5	G	A	584	142.226	98.756	-39.050	1.00	68.39	A16S
ATOM	12093	N7	G	A	584	141.363	97.986	-39.815	1.00	68.39	A16S
ATOM	12094	C8	G	A	584	140.979	97.030	-39.011	1.00	68.39	A16S
ATOM	12095	C2*	G	A	584	140.308	96.926	-35.612	1.00	71.85	A16S
ATOM	12096	O2*	G	A	584	140.627	96.468	-34.314	1.00	71.85	A16S
ATOM	12097	C3*	G	A	584	138.953	96.409	-36.077	1.00	71.85	A16S
ATOM	12098	O3*	G	A	584	137.989	96.453	-35.025	1.00	71.85	A16S
ATOM	12099	P	G	A	585	137.088	97.781	-34.813	1.00	60.54	A16S
ATOM	12100	O1P	G	A	585	136.194	97.509	-33.657	1.00	58.40	A16S
ATOM	12101	O2P	G	A	585	136.489	98.193	-36.120	1.00	58.40	A16S
ATOM	12102	O5*	G	A	585	138.133	98.908	-34.367	1.00	60.54	A16S
ATOM	12103	C5*	G	A	585	138.753	98.863	-33.068	1.00	60.54	A16S
ATOM	12104	C4*	G	A	585	139.650	100.061	-32.863	1.00	60.54	A16S
ATOM	12105	O4*	G	A	585	140.762	99.993	-33.779	1.00	60.54	A16S
ATOM	12106	C1*	G	A	585	141.096	101.292	-34.227	1.00	60.54	A16S
ATOM	12107	N9	G	A	585	140.851	101.338	-35.662	1.00	58.40	A16S
ATOM	12108	C4	G	A	585	141.303	102.286	-36.541	1.00	58.40	A16S
ATOM	12109	N3	G	A	585	142.065	103.353	-36.231	1.00	58.40	A16S
ATOM	12110	C2	G	A	585	142.344	104.092	-37.293	1.00	58.40	A16S
ATOM	12111	N2	G	A	585	143.099	105.196	-37.161	1.00	58.40	A16S
ATOM	12112	N1	G	A	585	141.910	103.804	-38.561	1.00	58.40	A16S
ATOM	12113	C6	G	A	585	141.139	102.699	-38.911	1.00	58.40	A16S
ATOM	12114	O6	G	A	585	140.834	102.506	-40.102	1.00	58.40	A16S
ATOM	12115	C5	G	A	585	140.820	101.904	-37.771	1.00	58.40	A16S
ATOM	12116	N7	G	A	585	140.072	100.737	-37.666	1.00	58.40	A16S
ATOM	12117	C8	G	A	585	140.120	100.439	-36.400	1.00	58.40	A16S
ATOM	12118	C2*	G	A	585	140.212	102.277	-33.471	1.00	60.54	A16S
ATOM	12119	O2*	G	A	585	140.862	102.704	-32.298	1.00	60.54	A16S
ATOM	12120	C3*	G	A	585	139.019	101.406	-33.143	1.00	60.54	A16S
ATOM	12121	O3*	G	A	585	138.306	101.895	-32.039	1.00	60.54	A16S
ATOM	12122	P	C	A	586	136.885	102.595	-32.287	1.00	62.35	A16S
ATOM	12123	O1P	C	A	586	136.251	102.751	-30.926	1.00	48.47	A16S
ATOM	12124	O2P	C	A	586	136.188	101.818	-33.360	1.00	48.47	A16S
ATOM	12125	O5*	C	A	586	137.261	104.016	-32.898	1.00	62.35	A16S
ATOM	12126	C5*	C	A	586	137.927	104.972	-32.086	1.00	62.35	A16S
ATOM	12127	C4*	C	A	586	138.585	106.029	-32.926	1.00	62.35	A16S
ATOM	12128	O4*	C	A	586	139.541	105.428	-33.842	1.00	62.35	A16S
ATOM	12129	C1*	C	A	586	139.694	106.269	-34.976	1.00	62.35	A16S
ATOM	12130	N1	C	A	586	139.302	105.541	-36.183	1.00	48.47	A16S
ATOM	12131	C6	C	A	586	138.706	104.318	-36.113	1.00	48.47	A16S
ATOM	12132	C2	C	A	586	139.523	106.156	-37.430	1.00	48.47	A16S
ATOM	12133	O2	C	A	586	140.104	107.251	-37.467	1.00	48.47	A16S
ATOM	12134	N3	C	A	586	139.094	105.549	-38.549	1.00	48.47	A16S
ATOM	12135	C4	C	A	586	138.461	104.381	-38.464	1.00	48.47	A16S
ATOM	12136	N4	C	A	586	137.984	103.857	-39.583	1.00	48.47	A16S
ATOM	12137	C5	C	A	586	138.271	103.708	-37.217	1.00	48.47	A16S
ATOM	12138	C2*	C	A	586	138.737	107.444	-34.805	1.00	62.35	A16S
ATOM	12139	O2*	C	A	586	139.476	108.547	-34.315	1.00	62.35	A16S
ATOM	12140	C3*	C	A	586	137.709	106.859	-33.840	1.00	62.35	A16S
ATOM	12141	O3*	C	A	586	136.957	107.844	-33.162	1.00	62.35	A16S
ATOM	12142	P	G	A	587	135.468	108.164	-33.668	1.00	71.52	A16S
ATOM	12143	O1P	G	A	587	134.828	109.085	-32.697	1.00	61.51	A16S
ATOM	12144	O2P	G	A	587	134.784	106.905	-34.044	1.00	61.51	A16S
ATOM	12145	O5*	G	A	587	135.685	108.985	-35.005	1.00	71.52	A16S
ATOM	12146	C5*	G	A	587	136.415	110.216	-35.009	1.00	71.52	A16S
ATOM	12147	C4*	G	A	587	136.506	110.712	-36.418	1.00	71.52	A16S
ATOM	12148	O4*	G	A	587	136.947	109.588	-37.202	1.00	71.52	A16S
ATOM	12149	C1*	G	A	587	136.417	109.690	-38.494	1.00	71.52	A16S
ATOM	12150	N9	G	A	587	136.090	108.361	-38.987	1.00	61.51	A16S
ATOM	12151	C4	G	A	587	135.888	108.032	-40.307	1.00	61.51	A16S
ATOM	12152	N3	G	A	587	135.935	108.889	-41.354	1.00	61.51	A16S
ATOM	12153	C2	G	A	587	135.676	108.283	-42.498	1.00	61.51	A16S
ATOM	12154	N2	G	A	587	135.644	108.991	-43.639	1.00	61.51	A16S
ATOM	12155	N1	G	A	587	135.415	106.943	-42.605	1.00	61.51	A16S
ATOM	12156	C6	G	A	587	135.362	106.047	-41.542	1.00	61.51	A16S
ATOM	12157	O6	G	A	587	135.109	104.865	-41.752	1.00	61.51	A16S
ATOM	12158	C5	G	A	587	135.623	106.681	-40.311	1.00	61.51	A16S
ATOM	12159	N7	G	A	587	135.658	106.166	-39.019	1.00	61.51	A16S



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ATOM	12160	C8	G	A	587	135.936	107.199	-38.266	1.00	61.51	A16S
ATOM	12161	C2*	G	A	587	135.274	110.708	-38.502	1.00	71.52	A16S
ATOM	12162	O2*	G	A	587	135.560	111.739	-39.438	1.00	71.52	A16S
ATOM	12163	C3*	G	A	587	135.164	111.115	-37.022	1.00	71.52	A16S
ATOM	12164	O3*	G	A	587	135.002	112.538	-36.839	1.00	71.52	A16S
ATOM	12165	P	G	A	588	133.657	113.274	-37.331	1.00	68.32	A16S
ATOM	12166	O1P	G	A	588	133.187	114.068	-36.165	1.00	71.06	A16S
ATOM	12167	O2P	G	A	588	132.751	112.259	-37.963	1.00	71.06	A16S
ATOM	12168	O5*	G	A	588	134.127	114.313	-38.445	1.00	68.32	A16S
ATOM	12169	C5*	G	A	588	135.090	115.329	-38.124	1.00	68.32	A16S
ATOM	12170	C4*	G	A	588	134.904	116.560	-38.997	1.00	68.32	A16S
ATOM	12171	O4*	G	A	588	135.136	116.235	-40.392	1.00	68.32	A16S
ATOM	12172	C1*	G	A	588	134.338	117.065	-41.210	1.00	68.32	A16S
ATOM	12173	N9	G	A	588	133.519	116.218	-42.065	1.00	71.06	A16S
ATOM	12174	C4	G	A	588	132.785	116.637	-43.141	1.00	71.06	A16S
ATOM	12175	N3	G	A	588	132.666	117.910	-43.563	1.00	71.06	A16S
ATOM	12176	C2	G	A	588	131.881	118.008	-44.620	1.00	71.06	A16S
ATOM	12177	N2	G	A	588	131.630	119.217	-45.142	1.00	71.06	A16S
ATOM	12178	N1	G	A	588	131.278	116.933	-45.232	1.00	71.06	A16S
ATOM	12179	C6	G	A	588	131.392	115.613	-44.812	1.00	71.06	A16S
ATOM	12180	O6	G	A	588	130.807	114.726	-45.424	1.00	71.06	A16S
ATOM	12181	C5	G	A	588	132.217	115.498	-43.666	1.00	71.06	A16S
ATOM	12182	N7	G	A	588	132.570	114.383	-42.919	1.00	71.06	A16S
ATOM	12183	C8	G	A	588	133.340	114.858	-41.978	1.00	71.06	A16S
ATOM	12184	C2*	G	A	588	133.532	117.996	-40.303	1.00	68.32	A16S
ATOM	12185	O2*	G	A	588	134.201	119.239	-40.205	1.00	68.32	A16S
ATOM	12186	C3*	G	A	588	133.545	117.242	-38.978	1.00	68.32	A16S
ATOM	12187	O3*	G	A	588	133.443	118.149	-37.885	1.00	68.32	A16S
ATOM	12188	P	C	A	589	132.002	118.498	-37.277	1.00	70.33	A16S
ATOM	12189	O1P	C	A	589	132.251	119.478	-36.186	1.00	72.86	A16S
ATOM	12190	O2P	C	A	589	131.308	117.225	-36.968	1.00	72.86	A16S
ATOM	12191	O5*	C	A	589	131.228	119.186	-38.497	1.00	70.33	A16S
ATOM	12192	C5*	C	A	589	131.389	120.599	-38.785	1.00	70.33	A16S
ATOM	12193	C4*	C	A	589	130.332	121.080	-39.766	1.00	70.33	A16S
ATOM	12194	O4*	C	A	589	130.608	120.558	-41.088	1.00	70.33	A16S
ATOM	12195	C1*	C	A	589	129.395	120.383	-41.793	1.00	70.33	A16S
ATOM	12196	N1	C	A	589	129.252	118.973	-42.162	1.00	72.86	A16S
ATOM	12197	C6	C	A	589	129.804	117.980	-41.402	1.00	72.86	A16S
ATOM	12198	C2	C	A	589	128.509	118.659	-43.299	1.00	72.86	A16S
ATOM	12199	O2	C	A	589	128.057	119.584	-43.986	1.00	72.86	A16S
ATOM	12200	N3	C	A	589	128.306	117.363	-43.626	1.00	72.86	A16S
ATOM	12201	C4	C	A	589	128.834	116.400	-42.871	1.00	72.86	A16S
ATOM	12202	N4	C	A	589	128.609	115.134	-43.226	1.00	72.86	A16S
ATOM	12203	C5	C	A	589	129.620	116.691	-41.716	1.00	72.86	A16S
ATOM	12204	C2*	C	A	589	128.248	120.805	-40.880	1.00	70.33	A16S
ATOM	12205	O2*	C	A	589	127.870	122.119	-41.215	1.00	70.33	A16S
ATOM	12206	C3*	C	A	589	128.884	120.687	-39.501	1.00	70.33	A16S
ATOM	12207	O3*	C	A	589	128.243	121.540	-38.555	1.00	70.33	A16S
ATOM	12208	P	C	A	590	126.902	121.040	-37.813	1.00	69.07	A16S
ATOM	12209	O1P	C	A	590	126.562	122.112	-36.837	1.00	78.07	A16S
ATOM	12210	O2P	C	A	590	127.105	119.647	-37.324	1.00	78.07	A16S
ATOM	12211	O5*	C	A	590	125.811	120.989	-38.983	1.00	69.07	A16S
ATOM	12212	C5*	C	A	590	125.253	122.204	-39.525	1.00	69.07	A16S
ATOM	12213	C4*	C	A	590	124.047	121.913	-40.406	1.00	69.07	A16S
ATOM	12214	O4*	C	A	590	124.460	121.309	-41.660	1.00	69.07	A16S
ATOM	12215	C1*	C	A	590	123.452	120.425	-42.117	1.00	69.07	A16S
ATOM	12216	N1	C	A	590	124.012	119.067	-42.168	1.00	78.07	A16S
ATOM	12217	C6	C	A	590	125.124	118.727	-41.442	1.00	78.07	A16S
ATOM	12218	C2	C	A	590	123.367	118.113	-42.952	1.00	78.07	A16S
ATOM	12219	O2	C	A	590	122.398	118.467	-43.637	1.00	78.07	A16S
ATOM	12220	N3	C	A	590	123.817	116.834	-42.949	1.00	78.07	A16S
ATOM	12221	C4	C	A	590	124.882	116.504	-42.212	1.00	78.07	A16S
ATOM	12222	N4	C	A	590	125.272	115.227	-42.210	1.00	78.07	A16S
ATOM	12223	C5	C	A	590	125.589	117.470	-41.436	1.00	78.07	A16S
ATOM	12224	C2*	C	A	590	122.286	120.484	-41.127	1.00	69.07	A16S
ATOM	12225	O2*	C	A	590	121.287	121.357	-41.602	1.00	69.07	A16S
ATOM	12226	C3*	C	A	590	122.971	120.984	-39.858	1.00	69.07	A16S
ATOM	12227	O3*	C	A	590	122.058	121.650	-38.990	1.00	69.07	A16S
ATOM	12228	P	U	A	591	121.218	120.797	-37.916	1.00	80.44	A16S
ATOM	12229	O1P	U	A	591	120.438	121.794	-37.140	1.00	85.67	A16S
ATOM	12230	O2P	U	A	591	122.131	119.881	-37.197	1.00	85.67	A16S
ATOM	12231	O5*	U	A	591	120.223	119.926	-38.817	1.00	80.44	A16S
ATOM	12232	C5*	U	A	591	119.209	120.583	-39.615	1.00	80.44	A16S
ATOM	12233	C4*	U	A	591	118.357	119.589	-40.395	1.00	80.44	A16S
ATOM	12234	O4*	U	A	591	119.126	118.969	-41.454	1.00	80.44	A16S
ATOM	12235	C1*	U	A	591	118.590	117.685	-41.735	1.00	80.44	A16S
ATOM	12236	N1	U	A	591	119.627	116.678	-41.483	1.00	85.67	A16S



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ATOM	12237	C6	U	A	591	120.662	116.912	-40.609	1.00	85.67	A16S
ATOM	12238	C2	U	A	591	119.517	115.478	-42.152	1.00	85.67	A16S
ATOM	12239	O2	U	A	591	118.608	115.229	-42.930	1.00	85.67	A16S
ATOM	12240	N3	U	A	591	120.505	114.573	-41.879	1.00	85.67	A16S
ATOM	12241	C4	U	A	591	121.566	114.744	-41.025	1.00	85.67	A16S
ATOM	12242	O4	U	A	591	122.408	113.852	-40.933	1.00	85.67	A16S
ATOM	12243	C5	U	A	591	121.606	116.012	-40.361	1.00	85.67	A16S
ATOM	12244	C2*	U	A	591	117.398	117.459	-40.810	1.00	80.44	A16S
ATOM	12245	O2*	U	A	591	116.196	117.787	-41.470	1.00	80.44	A16S
ATOM	12246	C3*	U	A	591	117.711	118.416	-39.672	1.00	80.44	A16S
ATOM	12247	O3*	U	A	591	116.515	118.743	-38.993	1.00	80.44	A16S
ATOM	12248	P	G	A	592	116.011	117.791	-37.802	1.00	81.24	A16S
ATOM	12249	O1P	G	A	592	114.832	118.471	-37.210	1.00	79.73	A16S
ATOM	12250	O2P	G	A	592	117.191	117.464	-36.938	1.00	79.73	A16S
ATOM	12251	O5*	G	A	592	115.520	116.461	-38.540	1.00	81.24	A16S
ATOM	12252	C5*	G	A	592	114.311	116.469	-39.313	1.00	81.24	A16S
ATOM	12253	C4*	G	A	592	114.081	115.132	-39.972	1.00	81.24	A16S
ATOM	12254	O4*	G	A	592	115.179	114.841	-40.872	1.00	81.24	A16S
ATOM	12255	C1*	G	A	592	115.340	113.436	-40.987	1.00	81.24	A16S
ATOM	12256	N9	G	A	592	116.686	113.064	-40.559	1.00	79.73	A16S
ATOM	12257	C4	G	A	592	117.240	111.820	-40.684	1.00	79.73	A16S
ATOM	12258	N3	G	A	592	116.663	110.762	-41.283	1.00	79.73	A16S
ATOM	12259	C2	G	A	592	117.420	109.685	-41.220	1.00	79.73	A16S
ATOM	12260	N2	G	A	592	116.994	108.545	-41.791	1.00	79.73	A16S
ATOM	12261	N1	G	A	592	118.645	109.646	-40.595	1.00	79.73	A16S
ATOM	12262	C6	G	A	592	119.252	110.723	-39.951	1.00	79.73	A16S
ATOM	12263	O6	G	A	592	120.346	110.567	-39.373	1.00	79.73	A16S
ATOM	12264	C5	G	A	592	118.458	111.894	-40.046	1.00	79.73	A16S
ATOM	12265	N7	G	A	592	118.690	113.179	-39.580	1.00	79.73	A16S
ATOM	12266	C8	G	A	592	117.617	113.841	-39.914	1.00	79.73	A16S
ATOM	12267	C2*	G	A	592	114.294	112.778	-40.087	1.00	81.24	A16S
ATOM	12268	O2*	G	A	592	113.193	112.401	-40.889	1.00	81.24	A16S
ATOM	12269	C3*	G	A	592	113.990	113.897	-39.093	1.00	81.24	A16S
ATOM	12270	O3*	G	A	592	112.704	113.750	-38.507	1.00	81.24	A16S
ATOM	12271	P	G	A	593	112.547	113.002	-37.080	1.00	66.42	A16S
ATOM	12272	O1P	G	A	593	111.150	113.285	-36.675	1.00	76.40	A16S
ATOM	12273	O2P	G	A	593	113.660	113.405	-36.178	1.00	76.40	A16S
ATOM	12274	O5*	G	A	593	112.664	111.437	-37.413	1.00	66.42	A16S
ATOM	12275	C5*	G	A	593	111.645	110.796	-38.207	1.00	66.42	A16S
ATOM	12276	C4*	G	A	593	112.010	109.370	-38.559	1.00	66.42	A16S
ATOM	12277	O4*	G	A	593	113.172	109.320	-39.432	1.00	66.42	A16S
ATOM	12278	C1*	G	A	593	113.892	108.112	-39.202	1.00	66.42	A16S
ATOM	12279	N9	G	A	593	115.240	108.447	-38.729	1.00	76.40	A16S
ATOM	12280	C4	G	A	593	116.289	107.569	-38.525	1.00	76.40	A16S
ATOM	12281	N3	G	A	593	116.276	106.242	-38.768	1.00	76.40	A16S
ATOM	12282	C2	G	A	593	117.427	105.673	-38.465	1.00	76.40	A16S
ATOM	12283	N2	G	A	593	117.597	104.359	-38.667	1.00	76.40	A16S
ATOM	12284	N1	G	A	593	118.501	106.349	-37.948	1.00	76.40	A16S
ATOM	12285	C6	G	A	593	118.541	107.714	-37.689	1.00	76.40	A16S
ATOM	12286	O6	G	A	593	119.573	108.232	-37.221	1.00	76.40	A16S
ATOM	12287	C5	G	A	593	117.318	108.340	-38.023	1.00	76.40	A16S
ATOM	12288	N7	G	A	593	116.941	109.673	-37.937	1.00	76.40	A16S
ATOM	12289	C8	G	A	593	115.708	109.692	-38.369	1.00	76.40	A16S
ATOM	12290	C2*	G	A	593	113.112	107.316	-38.153	1.00	66.42	A16S
ATOM	12291	O2*	G	A	593	112.271	106.396	-38.817	1.00	66.42	A16S
ATOM	12292	C3*	G	A	593	112.345	108.421	-37.428	1.00	66.42	A16S
ATOM	12293	O3*	G	A	593	111.185	107.941	-36.765	1.00	66.42	A16S
ATOM	12294	P	G	A	594	111.228	107.714	-35.176	1.00	82.50	A16S
ATOM	12295	O1P	G	A	594	109.868	107.334	-34.743	1.00	72.54	A16S
ATOM	12296	O2P	G	A	594	111.905	108.873	-34.539	1.00	72.54	A16S
ATOM	12297	O5*	G	A	594	112.158	106.433	-35.003	1.00	82.50	A16S
ATOM	12298	C5*	G	A	594	111.830	105.201	-35.671	1.00	82.50	A16S
ATOM	12299	C4*	G	A	594	112.975	104.220	-35.583	1.00	82.50	A16S
ATOM	12300	O4*	G	A	594	114.141	104.741	-36.274	1.00	82.50	A16S
ATOM	12301	C1*	G	A	594	115.318	104.244	-35.654	1.00	82.50	A16S
ATOM	12302	N9	G	A	594	116.154	105.371	-35.241	1.00	72.54	A16S
ATOM	12303	C4	G	A	594	117.494	105.318	-34.938	1.00	72.54	A16S
ATOM	12304	N3	G	A	594	118.267	104.215	-34.964	1.00	72.54	A16S
ATOM	12305	C2	G	A	594	119.522	104.485	-34.634	1.00	72.54	A16S
ATOM	12306	N2	G	A	594	120.437	103.498	-34.603	1.00	72.54	A16S
ATOM	12307	N1	G	A	594	119.977	105.740	-34.312	1.00	72.54	A16S
ATOM	12308	C6	G	A	594	119.199	106.889	-34.285	1.00	72.54	A16S
ATOM	12309	O6	G	A	594	119.714	107.972	-34.000	1.00	72.54	A16S
ATOM	12310	C5	G	A	594	117.852	106.613	-34.623	1.00	72.54	A16S
ATOM	12311	N7	G	A	594	116.757	107.463	-34.711	1.00	72.54	A16S
ATOM	12312	C8	G	A	594	115.775	106.685	-35.081	1.00	72.54	A16S
ATOM	12313	C2*	G	A	594	114.889	103.352	-34.488	1.00	82.50	A16S



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ATOM	12314	O2*	G	A	594	114.856	102.007	-34.928	1.00	82.50	A16S
ATOM	12315	C3*	G	A	594	113.488	103.871	-34.196	1.00	82.50	A16S
ATOM	12316	O3*	G	A	594	112.698	102.866	-33.585	1.00	82.50	A16S
ATOM	12317	P	G	A	595	112.342	102.984	-32.022	1.00	74.70	A16S
ATOM	12318	O1P	G	A	595	111.620	101.744	-31.631	1.00	79.21	A16S
ATOM	12319	O2P	G	A	595	111.721	104.317	-31.780	1.00	79.21	A16S
ATOM	12320	O5*	G	A	595	113.751	102.943	-31.288	1.00	74.70	A16S
ATOM	12321	C5*	G	A	595	114.670	101.874	-31.546	1.00	74.70	A16S
ATOM	12322	C4*	G	A	595	115.996	102.180	-30.920	1.00	74.70	A16S
ATOM	12323	O4*	G	A	595	116.446	103.462	-31.427	1.00	74.70	A16S
ATOM	12324	C1*	G	A	595	116.752	104.314	-30.352	1.00	74.70	A16S
ATOM	12325	N9	G	A	595	116.291	105.652	-30.684	1.00	79.21	A16S
ATOM	12326	C4	G	A	595	117.041	106.794	-30.684	1.00	79.21	A16S
ATOM	12327	N3	G	A	595	118.360	106.874	-30.433	1.00	79.21	A16S
ATOM	12328	C2	G	A	595	118.790	108.119	-30.474	1.00	79.21	A16S
ATOM	12329	N2	G	A	595	120.075	108.388	-30.259	1.00	79.21	A16S
ATOM	12330	N1	G	A	595	117.989	109.197	-30.734	1.00	79.21	A16S
ATOM	12331	C6	G	A	595	116.630	109.133	-30.998	1.00	79.21	A16S
ATOM	12332	O6	G	A	595	115.996	110.168	-31.222	1.00	79.21	A16S
ATOM	12333	C5	G	A	595	116.159	107.809	-30.965	1.00	79.21	A16S
ATOM	12334	N7	G	A	595	114.887	107.310	-31.176	1.00	79.21	A16S
ATOM	12335	C8	G	A	595	115.016	106.025	-31.011	1.00	79.21	A16S
ATOM	12336	C2*	G	A	595	116.018	103.774	-29.127	1.00	74.70	A16S
ATOM	12337	O2*	G	A	595	116.725	104.103	-27.943	1.00	74.70	A16S
ATOM	12338	C3*	G	A	595	115.998	102.276	-29.398	1.00	74.70	A16S
ATOM	12339	O3*	G	A	595	117.177	101.691	-28.889	1.00	74.70	A16S
ATOM	12340	P	C	A	596	117.119	100.218	-28.256	1.00	69.34	A16S
ATOM	12341	O1P	C	A	596	116.299	99.371	-29.173	1.00	88.66	A16S
ATOM	12342	O2P	C	A	596	116.741	100.340	-26.824	1.00	88.66	A16S
ATOM	12343	O5*	C	A	596	118.636	99.737	-28.336	1.00	69.34	A16S
ATOM	12344	C5*	C	A	596	118.995	98.426	-28.823	1.00	69.34	A16S
ATOM	12345	C4*	C	A	596	120.483	98.368	-29.070	1.00	69.34	A16S
ATOM	12346	O4*	C	A	596	120.799	98.854	-30.401	1.00	69.34	A16S
ATOM	12347	C1*	C	A	596	121.973	99.647	-30.354	1.00	69.34	A16S
ATOM	12348	N1	C	A	596	121.612	101.026	-30.727	1.00	88.66	A16S
ATOM	12349	C6	C	A	596	120.311	101.382	-30.959	1.00	88.66	A16S
ATOM	12350	C2	C	A	596	122.627	101.988	-30.792	1.00	88.66	A16S
ATOM	12351	O2	C	A	596	123.812	101.620	-30.671	1.00	88.66	A16S
ATOM	12352	N3	C	A	596	122.293	103.287	-30.998	1.00	88.66	A16S
ATOM	12353	C4	C	A	596	121.012	103.627	-31.172	1.00	88.66	A16S
ATOM	12354	N4	C	A	596	120.723	104.919	-31.333	1.00	88.66	A16S
ATOM	12355	C5	C	A	596	119.970	102.656	-31.181	1.00	88.66	A16S
ATOM	12356	C2*	C	A	596	122.510	99.605	-28.917	1.00	69.34	A16S
ATOM	12357	O2*	C	A	596	123.542	98.659	-28.789	1.00	69.34	A16S
ATOM	12358	C3*	C	A	596	121.258	99.264	-28.127	1.00	69.34	A16S
ATOM	12359	O3*	C	A	596	121.488	98.635	-26.883	1.00	69.34	A16S
ATOM	12360	P	G	A	597	121.303	99.483	-25.524	1.00	74.39	A16S
ATOM	12361	O1P	G	A	597	121.084	98.487	-24.444	1.00	70.94	A16S
ATOM	12362	O2P	G	A	597	120.298	100.580	-25.726	1.00	70.94	A16S
ATOM	12363	O5*	G	A	597	122.741	100.150	-25.304	1.00	74.39	A16S
ATOM	12364	C5*	G	A	597	123.955	99.400	-25.565	1.00	74.39	A16S
ATOM	12365	C4*	G	A	597	125.097	100.328	-25.896	1.00	74.39	A16S
ATOM	12366	O4*	G	A	597	124.784	101.094	-27.090	1.00	74.39	A16S
ATOM	12367	C1*	G	A	597	125.345	102.401	-26.981	1.00	74.39	A16S
ATOM	12368	N9	G	A	597	124.284	103.407	-27.102	1.00	70.94	A16S
ATOM	12369	C4	G	A	597	124.438	104.781	-27.025	1.00	70.94	A16S
ATOM	12370	N3	G	A	597	125.599	105.442	-26.855	1.00	70.94	A16S
ATOM	12371	C2	G	A	597	125.425	106.753	-26.834	1.00	70.94	A16S
ATOM	12372	N2	G	A	597	126.478	107.567	-26.703	1.00	70.94	A16S
ATOM	12373	N1	G	A	597	124.210	107.366	-26.946	1.00	70.94	A16S
ATOM	12374	C6	G	A	597	122.999	106.713	-27.102	1.00	70.94	A16S
ATOM	12375	O6	G	A	597	121.955	107.369	-27.161	1.00	70.94	A16S
ATOM	12376	C5	G	A	597	123.170	105.300	-27.158	1.00	70.94	A16S
ATOM	12377	N7	G	A	597	122.237	104.285	-27.335	1.00	70.94	A16S
ATOM	12378	C8	G	A	597	122.940	103.184	-27.299	1.00	70.94	A16S
ATOM	12379	C2*	G	A	597	126.079	102.476	-25.641	1.00	74.39	A16S
ATOM	12380	O2*	G	A	597	127.445	102.188	-25.836	1.00	74.39	A16S
ATOM	12381	C3*	G	A	597	125.393	101.381	-24.848	1.00	74.39	A16S
ATOM	12382	O3*	G	A	597	126.226	100.899	-23.826	1.00	74.39	A16S
ATOM	12383	P	U	A	598	125.810	101.169	-22.307	1.00	64.06	A16S
ATOM	12384	O1P	U	A	598	124.484	100.485	-22.154	1.00	69.95	A16S
ATOM	12385	O2P	U	A	598	126.930	100.820	-21.389	1.00	69.95	A16S
ATOM	12386	O5*	U	A	598	125.571	102.747	-22.242	1.00	64.06	A16S
ATOM	12387	C5*	U	A	598	126.672	103.659	-22.380	1.00	64.06	A16S
ATOM	12388	C4*	U	A	598	126.191	105.089	-22.317	1.00	64.06	A16S
ATOM	12389	O4*	U	A	598	125.517	105.448	-23.545	1.00	64.06	A16S
ATOM	12390	C1*	U	A	598	124.459	106.343	-23.262	1.00	64.06	A16S



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ATOM	12391	N1	U	A	598	123.201	105.713	-23.682	1.00	69.95	A16S
ATOM	12392	C6	U	A	598	123.120	104.358	-23.869	1.00	69.95	A16S
ATOM	12393	C2	U	A	598	122.099	106.522	-23.866	1.00	69.95	A16S
ATOM	12394	O2	U	A	598	122.139	107.733	-23.728	1.00	69.95	A16S
ATOM	12395	N3	U	A	598	120.949	105.859	-24.215	1.00	69.95	A16S
ATOM	12396	C4	U	A	598	120.801	104.498	-24.401	1.00	69.95	A16S
ATOM	12397	O4	U	A	598	119.697	104.033	-24.671	1.00	69.95	A16S
ATOM	12398	C5	U	A	598	121.990	103.743	-24.212	1.00	69.95	A16S
ATOM	12399	C2*	U	A	598	124.484	106.630	-21.762	1.00	64.06	A16S
ATOM	12400	O2*	U	A	598	125.237	107.796	-21.537	1.00	64.06	A16S
ATOM	12401	C3*	U	A	598	125.193	105.403	-21.224	1.00	64.06	A16S
ATOM	12402	O3*	U	A	598	125.845	105.685	-20.010	1.00	64.06	A16S
ATOM	12403	P	C	A	599	125.106	105.339	-18.633	1.00	77.79	A16S
ATOM	12404	O1P	C	A	599	124.441	104.025	-18.865	1.00	70.31	A16S
ATOM	12405	O2P	C	A	599	126.033	105.505	-17.472	1.00	70.31	A16S
ATOM	12406	O5*	C	A	599	123.974	106.454	-18.547	1.00	77.79	A16S
ATOM	12407	C5*	C	A	599	124.315	107.846	-18.407	1.00	77.79	A16S
ATOM	12408	C4*	C	A	599	123.063	108.691	-18.388	1.00	77.79	A16S
ATOM	12409	O4*	C	A	599	122.432	108.666	-19.693	1.00	77.79	A16S
ATOM	12410	C1*	C	A	599	121.024	108.723	-19.539	1.00	77.79	A16S
ATOM	12411	N1	C	A	599	120.438	107.507	-20.116	1.00	70.31	A16S
ATOM	12412	C6	C	A	599	121.131	106.328	-20.147	1.00	70.31	A16S
ATOM	12413	C2	C	A	599	119.148	107.580	-20.641	1.00	70.31	A16S
ATOM	12414	O2	C	A	599	118.544	108.668	-20.594	1.00	70.31	A16S
ATOM	12415	N3	C	A	599	118.593	106.473	-21.191	1.00	70.31	A16S
ATOM	12416	C4	C	A	599	119.287	105.335	-21.236	1.00	70.31	A16S
ATOM	12417	N4	C	A	599	118.720	104.282	-21.820	1.00	70.31	A16S
ATOM	12418	C5	C	A	599	120.600	105.231	-20.694	1.00	70.31	A16S
ATOM	12419	C2*	C	A	599	120.713	108.845	-18.053	1.00	77.79	A16S
ATOM	12420	O2*	C	A	599	120.529	110.216	-17.764	1.00	77.79	A16S
ATOM	12421	C3*	C	A	599	121.968	108.242	-17.436	1.00	77.79	A16S
ATOM	12422	O3*	C	A	599	122.200	108.684	-16.117	1.00	77.79	A16S
ATOM	12423	P	C	A	600	121.637	107.817	-14.899	1.00	75.15	A16S
ATOM	12424	O1P	C	A	600	121.779	106.395	-15.290	1.00	69.87	A16S
ATOM	12425	O2P	C	A	600	122.238	108.306	-13.622	1.00	69.87	A16S
ATOM	12426	O5*	C	A	600	120.077	108.129	-14.909	1.00	75.15	A16S
ATOM	12427	C5*	C	A	600	119.597	109.487	-14.793	1.00	75.15	A16S
ATOM	12428	C4*	C	A	600	118.097	109.552	-15.020	1.00	75.15	A16S
ATOM	12429	O4*	C	A	600	117.761	109.199	-16.393	1.00	75.15	A16S
ATOM	12430	C1*	C	A	600	116.464	108.627	-16.430	1.00	75.15	A16S
ATOM	12431	N1	C	A	600	116.517	107.321	-17.107	1.00	69.87	A16S
ATOM	12432	C6	C	A	600	117.675	106.600	-17.177	1.00	69.87	A16S
ATOM	12433	C2	C	A	600	115.339	106.824	-17.693	1.00	69.87	A16S
ATOM	12434	O2	C	A	600	114.295	107.494	-17.611	1.00	69.87	A16S
ATOM	12435	N3	C	A	600	115.362	105.634	-18.332	1.00	69.87	A16S
ATOM	12436	C4	C	A	600	116.496	104.943	-18.401	1.00	69.87	A16S
ATOM	12437	N4	C	A	600	116.469	103.778	-19.046	1.00	69.87	A16S
ATOM	12438	C5	C	A	600	117.710	105.417	-17.811	1.00	69.87	A16S
ATOM	12439	C2*	C	A	600	115.946	108.547	-14.998	1.00	75.15	A16S
ATOM	12440	O2*	C	A	600	115.117	109.668	-14.773	1.00	75.15	A16S
ATOM	12441	C3*	C	A	600	117.239	108.612	-14.196	1.00	75.15	A16S
ATOM	12442	O3*	C	A	600	117.039	109.086	-12.880	1.00	75.15	A16S
ATOM	12443	P	C	A	601	116.873	108.021	-11.693	1.00	69.21	A16S
ATOM	12444	O1P	C	A	601	117.076	108.759	-10.416	1.00	75.09	A16S
ATOM	12445	O2P	C	A	601	117.740	106.853	-12.017	1.00	75.09	A16S
ATOM	12446	O5*	C	A	601	115.354	107.546	-11.811	1.00	69.21	A16S
ATOM	12447	C5*	C	A	601	114.277	108.493	-11.665	1.00	69.21	A16S
ATOM	12448	C4*	C	A	601	112.946	107.850	-11.988	1.00	69.21	A16S
ATOM	12449	O4*	C	A	601	112.876	107.506	-13.398	1.00	69.21	A16S
ATOM	12450	C1*	C	A	601	112.104	106.330	-13.564	1.00	69.21	A16S
ATOM	12451	N1	C	A	601	112.940	105.301	-14.204	1.00	75.09	A16S
ATOM	12452	C6	C	A	601	114.296	105.288	-14.037	1.00	75.09	A16S
ATOM	12453	C2	C	A	601	112.317	104.316	-14.981	1.00	75.09	A16S
ATOM	12454	O2	C	A	601	111.087	104.353	-15.126	1.00	75.09	A16S
ATOM	12455	N3	C	A	601	113.067	103.347	-15.553	1.00	75.09	A16S
ATOM	12456	C4	C	A	601	114.387	103.341	-15.379	1.00	75.09	A16S
ATOM	12457	N4	C	A	601	115.089	102.366	-15.961	1.00	75.09	A16S
ATOM	12458	C5	C	A	601	115.049	104.337	-14.600	1.00	75.09	A16S
ATOM	12459	C2*	C	A	601	111.621	105.888	-12.180	1.00	69.21	A16S
ATOM	12460	O2*	C	A	601	110.308	106.350	-11.947	1.00	69.21	A16S
ATOM	12461	C3*	C	A	601	112.645	106.549	-11.270	1.00	69.21	A16S
ATOM	12462	O3*	C	A	601	112.161	106.739	-9.947	1.00	69.21	A16S
ATOM	12463	P	A	A	602	112.424	105.589	-8.849	1.00	77.57	A16S
ATOM	12464	O1P	A	A	602	112.007	106.121	-7.519	1.00	83.30	A16S
ATOM	12465	O2P	A	A	602	113.818	105.099	-9.032	1.00	83.30	A16S
ATOM	12466	O5*	A	A	602	111.432	104.421	-9.301	1.00	77.57	A16S
ATOM	12467	C5*	A	A	602	110.019	104.671	-9.383	1.00	77.57	A16S



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ATOM	12468	C4*	A	A	602	109.295	103.522	-10.042	1.00	77.57	A16S
ATOM	12469	O4*	A	A	602	109.643	103.433	-11.445	1.00	77.57	A16S
ATOM	12470	C1*	A	A	602	109.548	102.083	-11.870	1.00	77.57	A16S
ATOM	12471	N9	A	A	602	110.853	101.658	-12.393	1.00	83.30	A16S
ATOM	12472	C4	A	A	602	111.083	100.545	-13.167	1.00	83.30	A16S
ATOM	12473	N3	A	A	602	110.176	99.664	-13.613	1.00	83.30	A16S
ATOM	12474	C2	A	A	602	110.765	98.702	-14.308	1.00	83.30	A16S
ATOM	12475	N1	A	A	602	112.054	98.529	-14.581	1.00	83.30	A16S
ATOM	12476	C6	A	A	602	112.938	99.426	-14.112	1.00	83.30	A16S
ATOM	12477	N6	A	A	602	114.226	99.237	-14.365	1.00	83.30	A16S
ATOM	12478	C5	A	A	602	112.446	100.501	-13.373	1.00	83.30	A16S
ATOM	12479	N7	A	A	602	113.073	101.580	-12.767	1.00	83.30	A16S
ATOM	12480	C8	A	A	602	112.088	102.239	-12.204	1.00	83.30	A16S
ATOM	12481	C2*	A	A	602	109.106	101.249	-10.662	1.00	77.57	A16S
ATOM	12482	O2*	A	A	602	107.706	101.075	-10.695	1.00	77.57	A16S
ATOM	12483	C3*	A	A	602	109.540	102.129	-9.498	1.00	77.57	A16S
ATOM	12484	O3*	A	A	602	108.769	101.879	-8.338	1.00	77.57	A16S
ATOM	12485	P	U	A	603	109.353	100.915	-7.196	1.00	69.31	A16S
ATOM	12486	O1P	U	A	603	108.384	100.948	-6.074	1.00	82.76	A16S
ATOM	12487	O2P	U	A	603	110.765	101.293	-6.947	1.00	82.76	A16S
ATOM	12488	O5*	U	A	603	109.317	99.472	-7.875	1.00	69.31	A16S
ATOM	12489	C5*	U	A	603	108.072	98.912	-8.331	1.00	69.31	A16S
ATOM	12490	C4*	U	A	603	108.299	97.625	-9.105	1.00	69.31	A16S
ATOM	12491	O4*	U	A	603	108.855	97.906	-10.421	1.00	69.31	A16S
ATOM	12492	C1*	U	A	603	109.739	96.858	-10.802	1.00	69.31	A16S
ATOM	12493	N1	U	A	603	111.101	97.409	-10.911	1.00	82.76	A16S
ATOM	12494	C6	U	A	603	111.537	98.424	-10.091	1.00	82.76	A16S
ATOM	12495	C2	U	A	603	111.943	96.851	-11.847	1.00	82.76	A16S
ATOM	12496	O2	U	A	603	111.590	95.963	-12.600	1.00	82.76	A16S
ATOM	12497	N3	U	A	603	113.216	97.366	-11.868	1.00	82.76	A16S
ATOM	12498	C4	U	A	603	113.723	98.360	-11.057	1.00	82.76	A16S
ATOM	12499	O4	U	A	603	114.920	98.667	-11.140	1.00	82.76	A16S
ATOM	12500	C5	U	A	603	112.782	98.899	-10.128	1.00	82.76	A16S
ATOM	12501	C2*	U	A	603	109.689	95.795	-9.705	1.00	69.31	A16S
ATOM	12502	O2*	U	A	603	108.768	94.775	-10.031	1.00	69.31	A16S
ATOM	12503	C3*	U	A	603	109.266	96.625	-8.502	1.00	69.31	A16S
ATOM	12504	O3*	U	A	603	108.713	95.836	-7.481	1.00	69.31	A16S
ATOM	12505	P	G	A	604	109.692	95.206	-6.381	1.00	79.89	A16S
ATOM	12506	O1P	G	A	604	108.871	94.642	-5.275	1.00	76.86	A16S
ATOM	12507	O2P	G	A	604	110.737	96.232	-6.068	1.00	76.86	A16S
ATOM	12508	O5*	G	A	604	110.347	93.985	-7.170	1.00	79.89	A16S
ATOM	12509	C5*	G	A	604	109.511	92.964	-7.736	1.00	79.89	A16S
ATOM	12510	C4*	G	A	604	110.344	91.937	-8.456	1.00	79.89	A16S
ATOM	12511	O4*	G	A	604	110.875	92.488	-9.684	1.00	79.89	A16S
ATOM	12512	C1*	G	A	604	112.128	91.885	-9.975	1.00	79.89	A16S
ATOM	12513	N9	G	A	604	113.164	92.917	-10.022	1.00	76.86	A16S
ATOM	12514	C4	G	A	604	114.408	92.802	-10.609	1.00	76.86	A16S
ATOM	12515	N3	G	A	604	114.889	91.715	-11.239	1.00	76.86	A16S
ATOM	12516	C2	G	A	604	116.114	91.903	-11.679	1.00	76.86	A16S
ATOM	12517	N2	G	A	604	116.745	90.918	-12.306	1.00	76.86	A16S
ATOM	12518	N1	G	A	604	116.812	93.067	-11.534	1.00	76.86	A16S
ATOM	12519	C6	G	A	604	116.339	94.208	-10.902	1.00	76.86	A16S
ATOM	12520	O6	G	A	604	117.049	95.225	-10.845	1.00	76.86	A16S
ATOM	12521	C5	G	A	604	115.026	94.013	-10.399	1.00	76.86	A16S
ATOM	12522	N7	G	A	604	114.199	94.871	-9.687	1.00	76.86	A16S
ATOM	12523	C8	G	A	604	113.107	94.181	-9.488	1.00	76.86	A16S
ATOM	12524	C2*	G	A	604	112.415	90.879	-8.868	1.00	79.89	A16S
ATOM	12525	O2*	G	A	604	111.990	89.599	-9.284	1.00	79.89	A16S
ATOM	12526	C3*	G	A	604	111.573	91.431	-7.730	1.00	79.89	A16S
ATOM	12527	O3*	G	A	604	111.295	90.438	-6.772	1.00	79.89	A16S
ATOM	12528	P	U	A	605	112.297	90.252	-5.535	1.00	73.39	A16S
ATOM	12529	O1P	U	A	605	111.808	89.069	-4.787	1.00	77.59	A16S
ATOM	12530	O2P	U	A	605	112.444	91.567	-4.843	1.00	77.59	A16S
ATOM	12531	O5*	U	A	605	113.703	89.875	-6.198	1.00	73.39	A16S
ATOM	12532	C5*	U	A	605	113.887	88.620	-6.898	1.00	73.39	A16S
ATOM	12533	C4*	U	A	605	115.290	88.517	-7.470	1.00	73.39	A16S
ATOM	12534	O4*	U	A	605	115.471	89.509	-8.512	1.00	73.39	A16S
ATOM	12535	C1*	U	A	605	116.823	89.938	-8.525	1.00	73.39	A16S
ATOM	12536	N1	U	A	605	116.880	91.384	-8.270	1.00	77.59	A16S
ATOM	12537	C6	U	A	605	115.898	92.046	-7.576	1.00	77.59	A16S
ATOM	12538	C2	U	A	605	117.979	92.057	-8.751	1.00	77.59	A16S
ATOM	12539	O2	U	A	605	118.868	91.503	-9.365	1.00	77.59	A16S
ATOM	12540	N3	U	A	605	118.006	93.402	-8.484	1.00	77.59	A16S
ATOM	12541	C4	U	A	605	117.062	94.132	-7.796	1.00	77.59	A16S
ATOM	12542	O4	U	A	605	117.223	95.354	-7.645	1.00	77.59	A16S
ATOM	12543	C5	U	A	605	115.949	93.361	-7.327	1.00	77.59	A16S
ATOM	12544	C2*	U	A	605	117.580	89.167	-7.449	1.00	73.39	A16S



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ATOM	12545	O2*	U	A	605	118.243	88.073	-8.043	1.00	73.39	A16S
ATOM	12546	C3*	U	A	605	116.451	88.758	-6.512	1.00	73.39	A16S
ATOM	12547	O3*	U	A	605	116.807	87.605	-5.764	1.00	73.39	A16S
ATOM	12548	P	G	A	606	117.335	87.771	-4.253	1.00	74.53	A16S
ATOM	12549	O1P	G	A	606	117.501	86.398	-3.703	1.00	120.15	A16S
ATOM	12550	O2P	G	A	606	116.444	88.742	-3.560	1.00	120.15	A16S
ATOM	12551	O5*	G	A	606	118.784	88.423	-4.394	1.00	74.53	A16S
ATOM	12552	C5*	G	A	606	119.868	87.702	-5.025	1.00	74.53	A16S
ATOM	12553	C4*	G	A	606	121.019	88.635	-5.329	1.00	74.53	A16S
ATOM	12554	O4*	G	A	606	120.573	89.679	-6.231	1.00	74.53	A16S
ATOM	12555	C1*	G	A	606	121.182	90.909	-5.882	1.00	74.53	A16S
ATOM	12556	N9	G	A	606	120.123	91.849	-5.519	1.00	120.15	A16S
ATOM	12557	C4	G	A	606	120.212	93.220	-5.483	1.00	120.15	A16S
ATOM	12558	N3	G	A	606	121.305	93.953	-5.776	1.00	120.15	A16S
ATOM	12559	C2	G	A	606	121.075	95.250	-5.665	1.00	120.15	A16S
ATOM	12560	N2	G	A	606	122.055	96.128	-5.924	1.00	120.15	A16S
ATOM	12561	N1	G	A	606	119.868	95.787	-5.293	1.00	120.15	A16S
ATOM	12562	C6	G	A	606	118.728	95.052	-4.988	1.00	120.15	A16S
ATOM	12563	O6	G	A	606	117.681	95.638	-4.675	1.00	120.15	A16S
ATOM	12564	C5	G	A	606	118.962	93.658	-5.101	1.00	120.15	A16S
ATOM	12565	N7	G	A	606	118.107	92.586	-4.896	1.00	120.15	A16S
ATOM	12566	C8	G	A	606	118.836	91.537	-5.153	1.00	120.15	A16S
ATOM	12567	C2*	G	A	606	122.165	90.632	-4.745	1.00	74.53	A16S
ATOM	12568	O2*	G	A	606	123.447	90.410	-5.288	1.00	74.53	A16S
ATOM	12569	C3*	G	A	606	121.585	89.368	-4.131	1.00	74.53	A16S
ATOM	12570	O3*	G	A	606	122.598	88.594	-3.526	1.00	74.53	A16S
ATOM	12571	P	A	A	607	122.714	88.547	-1.930	1.00	80.65	A16S
ATOM	12572	O1P	A	A	607	122.270	89.853	-1.366	1.00	112.21	A16S
ATOM	12573	O2P	A	A	607	124.072	88.045	-1.612	1.00	112.21	A16S
ATOM	12574	O5*	A	A	607	121.647	87.433	-1.514	1.00	80.65	A16S
ATOM	12575	C5*	A	A	607	120.224	87.729	-1.439	1.00	80.65	A16S
ATOM	12576	C4*	A	A	607	119.531	86.788	-0.460	1.00	80.65	A16S
ATOM	12577	O4*	A	A	607	119.731	85.415	-0.893	1.00	80.65	A16S
ATOM	12578	C1*	A	A	607	119.911	84.576	0.237	1.00	80.65	A16S
ATOM	12579	N9	A	A	607	121.235	83.956	0.144	1.00	112.21	A16S
ATOM	12580	C4	A	A	607	121.747	83.010	1.000	1.00	112.21	A16S
ATOM	12581	N3	A	A	607	121.143	82.473	2.074	1.00	112.21	A16S
ATOM	12582	C2	A	A	607	121.944	81.595	2.669	1.00	112.21	A16S
ATOM	12583	N1	A	A	607	123.189	81.225	2.341	1.00	112.21	A16S
ATOM	12584	C6	A	A	607	123.769	81.791	1.262	1.00	112.21	A16S
ATOM	12585	N6	A	A	607	125.014	81.433	0.948	1.00	112.21	A16S
ATOM	12586	C5	A	A	607	123.021	82.732	0.539	1.00	112.21	A16S
ATOM	12587	N7	A	A	607	123.309	83.483	-0.593	1.00	112.21	A16S
ATOM	12588	C8	A	A	607	122.222	84.189	-0.788	1.00	112.21	A16S
ATOM	12589	C2*	A	A	607	119.742	85.431	1.495	1.00	80.65	A16S
ATOM	12590	O2*	A	A	607	118.436	85.300	2.011	1.00	80.65	A16S
ATOM	12591	C3*	A	A	607	120.048	86.828	0.972	1.00	80.65	A16S
ATOM	12592	O3*	A	A	607	119.392	87.822	1.743	1.00	80.65	A16S
ATOM	12593	P	A	A	608	120.146	88.483	3.003	1.00	71.58	A16S
ATOM	12594	O1P	A	A	608	119.114	89.248	3.749	1.00	75.70	A16S
ATOM	12595	O2P	A	A	608	121.412	89.178	2.541	1.00	75.70	A16S
ATOM	12596	O5*	A	A	608	120.570	87.246	3.918	1.00	71.58	A16S
ATOM	12597	C5*	A	A	608	119.590	86.468	4.637	1.00	71.58	A16S
ATOM	12598	C4*	A	A	608	120.271	85.405	5.468	1.00	71.58	A16S
ATOM	12599	O4*	A	A	608	120.835	84.389	4.602	1.00	71.58	A16S
ATOM	12600	C1*	A	A	608	122.057	83.924	5.155	1.00	71.58	A16S
ATOM	12601	N9	A	A	608	123.137	84.232	4.224	1.00	75.70	A16S
ATOM	12602	C4	A	A	608	124.425	83.772	4.323	1.00	75.70	A16S
ATOM	12603	N3	A	A	608	124.922	82.947	5.255	1.00	75.70	A16S
ATOM	12604	C2	A	A	608	126.221	82.736	5.045	1.00	75.70	A16S
ATOM	12605	N1	A	A	608	127.016	83.226	4.086	1.00	75.70	A16S
ATOM	12606	C6	A	A	608	126.481	84.056	3.168	1.00	75.70	A16S
ATOM	12607	N6	A	A	608	127.275	84.559	2.223	1.00	75.70	A16S
ATOM	12608	C5	A	A	608	125.113	84.348	3.272	1.00	75.70	A16S
ATOM	12609	N7	A	A	608	124.267	85.140	2.510	1.00	75.70	A16S
ATOM	12610	C8	A	A	608	123.110	85.035	3.114	1.00	75.70	A16S
ATOM	12611	C2*	A	A	608	122.290	84.653	6.479	1.00	71.58	A16S
ATOM	12612	O2*	A	A	608	121.871	83.874	7.577	1.00	71.58	A16S
ATOM	12613	C3*	A	A	608	121.446	85.898	6.295	1.00	71.58	A16S
ATOM	12614	O3*	A	A	608	121.063	86.433	7.543	1.00	71.58	A16S
ATOM	12615	P	A	A	609	121.804	87.749	8.089	1.00	70.09	A16S
ATOM	12616	O1P	A	A	609	121.193	88.132	9.387	1.00	82.16	A16S
ATOM	12617	O2P	A	A	609	121.811	88.724	6.960	1.00	82.16	A16S
ATOM	12618	O5*	A	A	609	123.305	87.279	8.361	1.00	70.09	A16S
ATOM	12619	C5*	A	A	609	123.589	86.203	9.270	1.00	70.09	A16S
ATOM	12620	C4*	A	A	609	125.016	85.730	9.106	1.00	70.09	A16S
ATOM	12621	O4*	A	A	609	125.197	85.091	7.815	1.00	70.09	A16S



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ATOM	12622	C1*	A	A	609	126.530	85.294	7.373	1.00	70.09	A16S
ATOM	12623	N9	A	A	609	126.499	86.039	6.123	1.00	82.16	A16S
ATOM	12624	C4	A	A	609	127.588	86.300	5.326	1.00	82.16	A16S
ATOM	12625	N3	A	A	609	128.850	85.882	5.510	1.00	82.16	A16S
ATOM	12626	C2	A	A	609	129.644	86.363	4.559	1.00	82.16	A16S
ATOM	12627	N1	A	A	609	129.346	87.157	3.523	1.00	82.16	A16S
ATOM	12628	C6	A	A	609	128.073	87.562	3.366	1.00	82.16	A16S
ATOM	12629	N6	A	A	609	127.784	88.365	2.339	1.00	82.16	A16S
ATOM	12630	C5	A	A	609	127.125	87.112	4.308	1.00	82.16	A16S
ATOM	12631	N7	A	A	609	125.758	87.329	4.443	1.00	82.16	A16S
ATOM	12632	C8	A	A	609	125.437	86.662	5.527	1.00	82.16	A16S
ATOM	12633	C2*	A	A	609	127.254	86.135	8.423	1.00	70.09	A16S
ATOM	12634	O2*	A	A	609	128.043	85.319	9.260	1.00	70.09	A16S
ATOM	12635	C3*	A	A	609	126.089	86.803	9.134	1.00	70.09	A16S
ATOM	12636	O3*	A	A	609	126.438	87.219	10.442	1.00	70.09	A16S
ATOM	12637	P	G	A	610	126.839	88.756	10.687	1.00	83.25	A16S
ATOM	12638	O1P	G	A	610	127.372	88.892	12.072	1.00	92.97	A16S
ATOM	12639	O2P	G	A	610	125.688	89.600	10.252	1.00	92.97	A16S
ATOM	12640	O5*	G	A	610	128.049	88.985	9.677	1.00	83.25	A16S
ATOM	12641	C5*	G	A	610	129.309	88.311	9.865	1.00	83.25	A16S
ATOM	12642	C4*	G	A	610	130.325	88.809	8.866	1.00	83.25	A16S
ATOM	12643	O4*	G	A	610	129.908	88.446	7.526	1.00	83.25	A16S
ATOM	12644	C1*	G	A	610	130.284	89.465	6.618	1.00	83.25	A16S
ATOM	12645	N9	G	A	610	129.079	89.976	5.972	1.00	92.97	A16S
ATOM	12646	C4	G	A	610	129.030	90.891	4.951	1.00	92.97	A16S
ATOM	12647	N3	G	A	610	130.090	91.493	4.379	1.00	92.97	A16S
ATOM	12648	C2	G	A	610	129.729	92.319	3.418	1.00	92.97	A16S
ATOM	12649	N2	G	A	610	130.665	93.008	2.751	1.00	92.97	A16S
ATOM	12650	N1	G	A	610	128.427	92.530	3.039	1.00	92.97	A16S
ATOM	12651	C6	G	A	610	127.318	91.912	3.608	1.00	92.97	A16S
ATOM	12652	O6	G	A	610	126.182	92.158	3.175	1.00	92.97	A16S
ATOM	12653	C5	G	A	610	127.694	91.035	4.652	1.00	92.97	A16S
ATOM	12654	N7	G	A	610	126.916	90.241	5.479	1.00	92.97	A16S
ATOM	12655	C8	G	A	610	127.778	89.634	6.247	1.00	92.97	A16S
ATOM	12656	C2*	G	A	610	131.041	90.535	7.402	1.00	83.25	A16S
ATOM	12657	O2*	G	A	610	132.426	90.270	7.337	1.00	83.25	A16S
ATOM	12658	C3*	G	A	610	130.509	90.316	8.807	1.00	83.25	A16S
ATOM	12659	O3*	G	A	610	131.419	90.787	9.782	1.00	83.25	A16S
ATOM	12660	P	A	A	611	131.197	92.241	10.416	1.00	76.51	A16S
ATOM	12661	O1P	A	A	611	132.335	92.499	11.337	1.00	84.46	A16S
ATOM	12662	O2P	A	A	611	129.800	92.309	10.927	1.00	84.46	A16S
ATOM	12663	O5*	A	A	611	131.320	93.226	9.176	1.00	76.51	A16S
ATOM	12664	C5*	A	A	611	132.598	93.484	8.580	1.00	76.51	A16S
ATOM	12665	C4*	A	A	611	132.468	94.519	7.492	1.00	76.51	A16S
ATOM	12666	O4*	A	A	611	131.656	93.985	6.416	1.00	76.51	A16S
ATOM	12667	C1*	A	A	611	130.851	95.007	5.871	1.00	76.51	A16S
ATOM	12668	N9	A	A	611	129.457	94.648	6.107	1.00	84.46	A16S
ATOM	12669	C4	A	A	611	128.370	95.192	5.475	1.00	84.46	A16S
ATOM	12670	N3	A	A	611	128.376	96.104	4.492	1.00	84.46	A16S
ATOM	12671	C2	A	A	611	127.134	96.435	4.155	1.00	84.46	A16S
ATOM	12672	N1	A	A	611	125.978	95.996	4.656	1.00	84.46	A16S
ATOM	12673	C6	A	A	611	126.011	95.079	5.647	1.00	84.46	A16S
ATOM	12674	N6	A	A	611	124.856	94.652	6.163	1.00	84.46	A16S
ATOM	12675	C5	A	A	611	127.265	94.635	6.083	1.00	84.46	A16S
ATOM	12676	N7	A	A	611	127.644	93.718	7.050	1.00	84.46	A16S
ATOM	12677	C8	A	A	611	128.952	93.755	7.019	1.00	84.46	A16S
ATOM	12678	C2*	A	A	611	131.228	96.314	6.575	1.00	76.51	A16S
ATOM	12679	O2*	A	A	611	132.210	96.981	5.816	1.00	76.51	A16S
ATOM	12680	C3*	A	A	611	131.783	95.810	7.900	1.00	76.51	A16S
ATOM	12681	O3*	A	A	611	132.716	96.718	8.489	1.00	76.51	A16S
ATOM	12682	P	C	A	612	132.325	97.496	9.846	1.00	86.09	A16S
ATOM	12683	O1P	C	A	612	133.514	98.254	10.335	1.00	78.55	A16S
ATOM	12684	O2P	C	A	612	131.673	96.506	10.742	1.00	78.55	A16S
ATOM	12685	O5*	C	A	612	131.216	98.544	9.376	1.00	86.09	A16S
ATOM	12686	C5*	C	A	612	131.542	99.602	8.449	1.00	86.09	A16S
ATOM	12687	C4*	C	A	612	130.315	100.438	8.136	1.00	86.09	A16S
ATOM	12688	O4*	C	A	612	129.404	99.728	7.258	1.00	86.09	A16S
ATOM	12689	C1*	C	A	612	128.069	100.111	7.546	1.00	86.09	A16S
ATOM	12690	N1	C	A	612	127.291	98.904	7.887	1.00	78.55	A16S
ATOM	12691	C6	C	A	612	127.920	97.758	8.287	1.00	78.55	A16S
ATOM	12692	C2	C	A	612	125.890	98.949	7.807	1.00	78.55	A16S
ATOM	12693	O2	C	A	612	125.336	99.992	7.431	1.00	78.55	A16S
ATOM	12694	N3	C	A	612	125.180	97.853	8.143	1.00	78.55	A16S
ATOM	12695	C4	C	A	612	125.809	96.745	8.540	1.00	78.55	A16S
ATOM	12696	N4	C	A	612	125.069	95.693	8.868	1.00	78.55	A16S
ATOM	12697	C5	C	A	612	127.224	96.669	8.619	1.00	78.55	A16S
ATOM	12698	C2*	C	A	612	128.110	101.143	8.677	1.00	86.09	A16S



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ATOM	12699	O2*	C	A	612	128.042	102.439	8.125	1.00	86.09	A16S
ATOM	12700	C3*	C	A	612	129.460	100.850	9.321	1.00	86.09	A16S
ATOM	12701	O3*	C	A	612	130.011	101.980	9.972	1.00	86.09	A16S
ATOM	12702	P	C	A	613	129.801	102.161	11.550	1.00	80.59	A16S
ATOM	12703	O1P	C	A	613	130.627	103.328	11.954	1.00	85.01	A16S
ATOM	12704	O2P	C	A	613	130.010	100.847	12.219	1.00	85.01	A16S
ATOM	12705	O5*	C	A	613	128.261	102.563	11.658	1.00	80.59	A16S
ATOM	12706	C5*	C	A	613	127.779	103.788	11.062	1.00	80.59	A16S
ATOM	12707	C4*	C	A	613	126.288	103.950	11.286	1.00	80.59	A16S
ATOM	12708	O4*	C	A	613	125.534	103.036	10.444	1.00	80.59	A16S
ATOM	12709	C1*	C	A	613	124.375	102.592	11.138	1.00	80.59	A16S
ATOM	12710	N1	C	A	613	124.473	101.128	11.342	1.00	85.01	A16S
ATOM	12711	C6	C	A	613	125.678	100.530	11.607	1.00	85.01	A16S
ATOM	12712	C2	C	A	613	123.312	100.358	11.262	1.00	85.01	A16S
ATOM	12713	O2	C	A	613	122.231	100.923	11.061	1.00	85.01	A16S
ATOM	12714	N3	C	A	613	123.396	99.017	11.415	1.00	85.01	A16S
ATOM	12715	C4	C	A	613	124.577	98.445	11.656	1.00	85.01	A16S
ATOM	12716	N4	C	A	613	124.615	97.119	11.783	1.00	85.01	A16S
ATOM	12717	C5	C	A	613	125.773	99.206	11.772	1.00	85.01	A16S
ATOM	12718	C2*	C	A	613	124.325	103.341	12.468	1.00	80.59	A16S
ATOM	12719	O2*	C	A	613	123.549	104.507	12.323	1.00	80.59	A16S
ATOM	12720	C3*	C	A	613	125.792	103.663	12.689	1.00	80.59	A16S
ATOM	12721	O3*	C	A	613	125.962	104.751	13.561	1.00	80.59	A16S
ATOM	12722	P	A	A	614	126.028	104.474	15.137	1.00	93.74	A16S
ATOM	12723	O1P	A	A	614	126.354	105.773	15.790	1.00	88.77	A16S
ATOM	12724	O2P	A	A	614	126.907	103.291	15.369	1.00	88.77	A16S
ATOM	12725	O5*	A	A	614	124.530	104.065	15.498	1.00	93.74	A16S
ATOM	12726	C5*	A	A	614	123.444	104.970	15.225	1.00	93.74	A16S
ATOM	12727	C4*	A	A	614	122.126	104.351	15.609	1.00	93.74	A16S
ATOM	12728	O4*	A	A	614	121.748	103.338	14.649	1.00	93.74	A16S
ATOM	12729	C1*	A	A	614	121.072	102.285	15.315	1.00	93.74	A16S
ATOM	12730	N9	A	A	614	121.856	101.058	15.153	1.00	88.77	A16S
ATOM	12731	C4	A	A	614	121.391	99.767	15.276	1.00	88.77	A16S
ATOM	12732	N3	A	A	614	120.139	99.369	15.556	1.00	88.77	A16S
ATOM	12733	C2	A	A	614	120.068	98.045	15.602	1.00	88.77	A16S
ATOM	12734	N1	A	A	614	121.027	97.146	15.419	1.00	88.77	A16S
ATOM	12735	C6	A	A	614	122.272	97.579	15.147	1.00	88.77	A16S
ATOM	12736	N6	A	A	614	123.236	96.683	14.981	1.00	88.77	A16S
ATOM	12737	C5	A	A	614	122.483	98.953	15.063	1.00	88.77	A16S
ATOM	12738	N7	A	A	614	123.618	99.707	14.804	1.00	88.77	A16S
ATOM	12739	C8	A	A	614	123.195	100.945	14.866	1.00	88.77	A16S
ATOM	12740	C2*	A	A	614	120.943	102.677	16.788	1.00	93.74	A16S
ATOM	12741	O2*	A	A	614	119.692	103.292	17.020	1.00	93.74	A16S
ATOM	12742	C3*	A	A	614	122.105	103.641	16.947	1.00	93.74	A16S
ATOM	12743	O3*	A	A	614	121.920	104.537	18.024	1.00	93.74	A16S
ATOM	12744	P	C	A	615	122.551	104.184	19.456	1.00	93.14	A16S
ATOM	12745	O1P	C	A	615	122.474	105.417	20.283	1.00	99.75	A16S
ATOM	12746	O2P	C	A	615	123.873	103.539	19.233	1.00	99.75	A16S
ATOM	12747	O5*	C	A	615	121.531	103.104	20.044	1.00	93.14	A16S
ATOM	12748	C5*	C	A	615	120.159	103.471	20.320	1.00	93.14	A16S
ATOM	12749	C4*	C	A	615	119.290	102.247	20.536	1.00	93.14	A16S
ATOM	12750	O4*	C	A	615	119.206	101.471	19.308	1.00	93.14	A16S
ATOM	12751	C1*	C	A	615	119.109	100.087	19.624	1.00	93.14	A16S
ATOM	12752	N1	C	A	615	120.331	99.393	19.148	1.00	99.75	A16S
ATOM	12753	C6	C	A	615	121.447	100.094	18.784	1.00	99.75	A16S
ATOM	12754	C2	C	A	615	120.335	97.990	19.088	1.00	99.75	A16S
ATOM	12755	O2	C	A	615	119.313	97.370	19.417	1.00	99.75	A16S
ATOM	12756	N3	C	A	615	121.455	97.349	18.677	1.00	99.75	A16S
ATOM	12757	C4	C	A	615	122.537	98.048	18.335	1.00	99.75	A16S
ATOM	12758	N4	C	A	615	123.618	97.377	17.947	1.00	99.75	A16S
ATOM	12759	C5	C	A	615	122.559	99.467	18.377	1.00	99.75	A16S
ATOM	12760	C2*	C	A	615	119.003	99.982	21.144	1.00	93.14	A16S
ATOM	12761	O2*	C	A	615	117.645	100.013	21.540	1.00	93.14	A16S
ATOM	12762	C3*	C	A	615	119.735	101.238	21.583	1.00	93.14	A16S
ATOM	12763	O3*	C	A	615	119.377	101.570	22.908	1.00	93.14	A16S
ATOM	12764	P	G	A	616	120.231	100.952	24.126	1.00	89.27	A16S
ATOM	12765	O1P	G	A	616	119.587	101.420	25.378	1.00	102.19	A16S
ATOM	12766	O2P	G	A	616	121.676	101.228	23.889	1.00	102.19	A16S
ATOM	12767	O5*	G	A	616	120.021	99.370	24.026	1.00	89.27	A16S
ATOM	12768	C5*	G	A	616	118.729	98.777	24.284	1.00	89.27	A16S
ATOM	12769	C4*	G	A	616	118.766	97.274	24.082	1.00	89.27	A16S
ATOM	12770	O4*	G	A	616	119.204	96.962	22.734	1.00	89.27	A16S
ATOM	12771	C1*	G	A	616	119.856	95.702	22.726	1.00	89.27	A16S
ATOM	12772	N9	G	A	616	121.215	95.854	22.212	1.00	102.19	A16S
ATOM	12773	C4	G	A	616	122.050	94.826	21.836	1.00	102.19	A16S
ATOM	12774	N3	G	A	616	121.744	93.510	21.854	1.00	102.19	A16S
ATOM	12775	C2	G	A	616	122.756	92.765	21.459	1.00	102.19	A16S



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ATOM	12776	N2	G	A	616	122.625	91.439	21.425	1.00102.19	A16S
ATOM	12777	N1	G	A	616	123.973	93.265	21.071	1.00102.19	A16S
ATOM	12778	C6	G	A	616	124.312	94.615	21.046	1.00102.19	A16S
ATOM	12779	O6	G	A	616	125.448	94.963	20.689	1.00102.19	A16S
ATOM	12780	C5	G	A	616	123.232	95.430	21.469	1.00102.19	A16S
ATOM	12781	N7	G	A	616	123.140	96.810	21.593	1.00102.19	A16S
ATOM	12782	C8	G	A	616	121.927	97.016	22.031	1.00102.19	A16S
ATOM	12783	C2*	G	A	616	119.869	95.174	24.157	1.00 89.27	A16S
ATOM	12784	O2*	G	A	616	118.814	94.247	24.312	1.00 89.27	A16S
ATOM	12785	C3*	G	A	616	119.688	96.453	24.965	1.00 89.27	A16S
ATOM	12786	O3*	G	A	616	119.094	96.157	26.209	1.00 89.27	A16S
ATOM	12787	P	G	A	617	120.007	95.618	27.412	1.00 78.60	A16S
ATOM	12788	O1P	G	A	617	119.118	95.475	28.595	1.00 96.92	A16S
ATOM	12789	O2P	G	A	617	121.236	96.454	27.504	1.00 96.92	A16S
ATOM	12790	O5*	G	A	617	120.451	94.152	26.962	1.00 78.60	A16S
ATOM	12791	C5*	G	A	617	119.537	93.027	27.047	1.00 78.60	A16S
ATOM	12792	C4*	G	A	617	120.272	91.709	26.864	1.00 78.60	A16S
ATOM	12793	O4*	G	A	617	120.803	91.594	25.514	1.00 78.60	A16S
ATOM	12794	C1*	G	A	617	122.014	90.854	25.541	1.00 78.60	A16S
ATOM	12795	N9	G	A	617	123.096	91.673	24.996	1.00 96.92	A16S
ATOM	12796	C4	G	A	617	124.324	91.213	24.568	1.00 96.92	A16S
ATOM	12797	N3	G	A	617	124.731	89.924	24.558	1.00 96.92	A16S
ATOM	12798	C2	G	A	617	125.958	89.796	24.089	1.00 96.92	A16S
ATOM	12799	N2	G	A	617	126.505	88.578	23.980	1.00 96.92	A16S
ATOM	12800	N1	G	A	617	126.738	90.847	23.686	1.00 96.92	A16S
ATOM	12801	C6	G	A	617	126.351	92.181	23.697	1.00 96.92	A16S
ATOM	12802	O6	G	A	617	127.147	93.054	23.327	1.00 96.92	A16S
ATOM	12803	C5	G	A	617	125.019	92.335	24.175	1.00 96.92	A16S
ATOM	12804	N7	G	A	617	124.244	93.478	24.337	1.00 96.92	A16S
ATOM	12805	C8	G	A	617	123.114	93.037	24.823	1.00 96.92	A16S
ATOM	12806	C2*	G	A	617	122.279	90.440	26.989	1.00 78.60	A16S
ATOM	12807	O2*	G	A	617	121.820	89.114	27.177	1.00 78.60	A16S
ATOM	12808	C3*	G	A	617	121.475	91.479	27.760	1.00 78.60	A16S
ATOM	12809	O3*	G	A	617	121.094	91.020	29.040	1.00 78.60	A16S
ATOM	12810	P	C	A	618	121.938	91.492	30.322	1.00 82.69	A16S
ATOM	12811	O1P	C	A	618	121.294	90.919	31.542	1.00 94.18	A16S
ATOM	12812	O2P	C	A	618	122.105	92.968	30.201	1.00 94.18	A16S
ATOM	12813	O5*	C	A	618	123.369	90.798	30.133	1.00 82.69	A16S
ATOM	12814	C5*	C	A	618	123.523	89.395	30.405	1.00 82.69	A16S
ATOM	12815	C4*	C	A	618	124.908	88.887	30.039	1.00 82.69	A16S
ATOM	12816	O4*	C	A	618	125.216	89.131	28.646	1.00 82.69	A16S
ATOM	12817	C1*	C	A	618	126.575	88.825	28.451	1.00 82.69	A16S
ATOM	12818	N1	C	A	618	127.224	89.779	27.537	1.00 94.18	A16S
ATOM	12819	C6	C	A	618	126.959	91.117	27.571	1.00 94.18	A16S
ATOM	12820	C2	C	A	618	128.181	89.276	26.651	1.00 94.18	A16S
ATOM	12821	O2	C	A	618	128.347	88.047	26.583	1.00 94.18	A16S
ATOM	12822	N3	C	A	618	128.894	90.127	25.888	1.00 94.18	A16S
ATOM	12823	C4	C	A	618	128.665	91.428	25.959	1.00 94.18	A16S
ATOM	12824	N4	C	A	618	129.417	92.221	25.207	1.00 94.18	A16S
ATOM	12825	C5	C	A	618	127.656	91.972	26.809	1.00 94.18	A16S
ATOM	12826	C2*	C	A	618	127.251	88.797	29.822	1.00 82.69	A16S
ATOM	12827	O2*	C	A	618	127.529	87.445	30.115	1.00 82.69	A16S
ATOM	12828	C3*	C	A	618	126.174	89.368	30.743	1.00 82.69	A16S
ATOM	12829	O3*	C	A	618	126.314	88.791	32.056	1.00 82.69	A16S
ATOM	12830	P	U	A	619	127.662	89.038	32.938	1.00 79.62	A16S
ATOM	12831	O1P	U	A	619	128.852	88.557	32.179	1.00 79.72	A16S
ATOM	12832	O2P	U	A	619	127.422	88.521	34.310	1.00 79.72	A16S
ATOM	12833	O5*	U	A	619	127.828	90.618	33.033	1.00 79.62	A16S
ATOM	12834	C5*	U	A	619	126.807	91.448	33.591	1.00 79.62	A16S
ATOM	12835	C4*	U	A	619	127.380	92.805	33.888	1.00 79.62	A16S
ATOM	12836	O4*	U	A	619	128.255	92.725	35.037	1.00 79.62	A16S
ATOM	12837	C1*	U	A	619	129.339	93.610	34.858	1.00 79.62	A16S
ATOM	12838	N1	U	A	619	130.581	92.846	34.994	1.00 79.72	A16S
ATOM	12839	C6	U	A	619	130.684	91.564	34.522	1.00 79.72	A16S
ATOM	12840	C2	U	A	619	131.654	93.471	35.596	1.00 79.72	A16S
ATOM	12841	O2	U	A	619	131.594	94.596	36.068	1.00 79.72	A16S
ATOM	12842	N3	U	A	619	132.803	92.730	35.632	1.00 79.72	A16S
ATOM	12843	C4	U	A	619	132.985	91.462	35.149	1.00 79.72	A16S
ATOM	12844	O4	U	A	619	134.116	90.986	35.134	1.00 79.72	A16S
ATOM	12845	C5	U	A	619	131.819	90.868	34.579	1.00 79.72	A16S
ATOM	12846	C2*	U	A	619	129.203	94.287	33.488	1.00 79.62	A16S
ATOM	12847	O2*	U	A	619	128.688	95.593	33.615	1.00 79.62	A16S
ATOM	12848	C3*	U	A	619	128.246	93.353	32.769	1.00 79.62	A16S
ATOM	12849	O3*	U	A	619	127.445	94.033	31.816	1.00 79.62	A16S
ATOM	12850	P	C	A	620	127.679	93.762	30.252	1.00 77.40	A16S
ATOM	12851	O1P	C	A	620	126.546	94.388	29.473	1.00 76.49	A16S
ATOM	12852	O2P	C	A	620	127.964	92.308	30.089	1.00 76.49	A16S



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ATOM	12853	O5*	C	A	620	129.039	94.539	29.955	1.00	77.40	A16S
ATOM	12854	C5*	C	A	620	129.101	95.964	30.063	1.00	77.40	A16S
ATOM	12855	C4*	C	A	620	130.389	96.476	29.479	1.00	77.40	A16S
ATOM	12856	O4*	C	A	620	131.490	96.016	30.289	1.00	77.40	A16S
ATOM	12857	C1*	C	A	620	132.640	95.892	29.479	1.00	77.40	A16S
ATOM	12858	N1	C	A	620	133.277	94.595	29.748	1.00	76.49	A16S
ATOM	12859	C6	C	A	620	132.542	93.447	29.856	1.00	76.49	A16S
ATOM	12860	C2	C	A	620	134.659	94.564	29.916	1.00	76.49	A16S
ATOM	12861	O2	C	A	620	135.302	95.617	29.789	1.00	76.49	A16S
ATOM	12862	N3	C	A	620	135.261	93.396	30.216	1.00	76.49	A16S
ATOM	12863	C4	C	A	620	134.535	92.288	30.354	1.00	76.49	A16S
ATOM	12864	N4	C	A	620	135.172	91.169	30.696	1.00	76.49	A16S
ATOM	12865	C5	C	A	620	133.125	92.282	30.159	1.00	76.49	A16S
ATOM	12866	C2*	C	A	620	132.253	96.181	28.029	1.00	77.40	A16S
ATOM	12867	O2*	C	A	620	132.639	97.504	27.731	1.00	77.40	A16S
ATOM	12868	C3*	C	A	620	130.738	96.028	28.067	1.00	77.40	A16S
ATOM	12869	O3*	C	A	620	130.135	96.879	27.107	1.00	77.40	A16S
ATOM	12870	P	A	A	621	129.777	96.308	25.654	1.00	72.24	A16S
ATOM	12871	O1P	A	A	621	129.306	97.441	24.826	1.00	90.12	A16S
ATOM	12872	O2P	A	A	621	128.896	95.131	25.829	1.00	90.12	A16S
ATOM	12873	O5*	A	A	621	131.191	95.856	25.084	1.00	72.24	A16S
ATOM	12874	C5*	A	A	621	132.174	96.841	24.715	1.00	72.24	A16S
ATOM	12875	C4*	A	A	621	133.490	96.177	24.407	1.00	72.24	A16S
ATOM	12876	O4*	A	A	621	133.958	95.507	25.605	1.00	72.24	A16S
ATOM	12877	C1*	A	A	621	134.565	94.274	25.261	1.00	72.24	A16S
ATOM	12878	N9	A	A	621	133.822	93.198	25.927	1.00	90.12	A16S
ATOM	12879	C4	A	A	621	134.328	91.992	26.347	1.00	90.12	A16S
ATOM	12880	N3	A	A	621	135.592	91.555	26.234	1.00	90.12	A16S
ATOM	12881	C2	A	A	621	135.717	90.341	26.760	1.00	90.12	A16S
ATOM	12882	N1	A	A	621	134.790	89.572	27.343	1.00	90.12	A16S
ATOM	12883	C6	A	A	621	133.527	90.042	27.441	1.00	90.12	A16S
ATOM	12884	N6	A	A	621	132.601	89.278	28.027	1.00	90.12	A16S
ATOM	12885	C5	A	A	621	133.265	91.316	26.920	1.00	90.12	A16S
ATOM	12886	N7	A	A	621	132.106	92.075	26.860	1.00	90.12	A16S
ATOM	12887	C8	A	A	621	132.487	93.179	26.265	1.00	90.12	A16S
ATOM	12888	C2*	A	A	621	134.584	94.179	23.729	1.00	72.24	A16S
ATOM	12889	O2*	A	A	621	135.812	94.677	23.232	1.00	72.24	A16S
ATOM	12890	C3*	A	A	621	133.434	95.095	23.340	1.00	72.24	A16S
ATOM	12891	O3*	A	A	621	133.610	95.629	22.030	1.00	72.24	A16S
ATOM	12892	P	A	A	622	132.953	94.873	20.776	1.00	71.19	A16S
ATOM	12893	O1P	A	A	622	133.266	95.654	19.556	1.00	88.11	A16S
ATOM	12894	O2P	A	A	622	131.533	94.603	21.111	1.00	88.11	A16S
ATOM	12895	O5*	A	A	622	133.741	93.480	20.726	1.00	71.19	A16S
ATOM	12896	C5*	A	A	622	135.129	93.423	20.303	1.00	71.19	A16S
ATOM	12897	C4*	A	A	622	135.722	92.039	20.522	1.00	71.19	A16S
ATOM	12898	O4*	A	A	622	135.804	91.748	21.939	1.00	71.19	A16S
ATOM	12899	C1*	A	A	622	135.630	90.356	22.151	1.00	71.19	A16S
ATOM	12900	N9	A	A	622	134.403	90.152	22.914	1.00	88.11	A16S
ATOM	12901	C4	A	A	622	134.083	89.037	23.645	1.00	88.11	A16S
ATOM	12902	N3	A	A	622	134.858	87.965	23.879	1.00	88.11	A16S
ATOM	12903	C2	A	A	622	134.195	87.057	24.592	1.00	88.11	A16S
ATOM	12904	N1	A	A	622	132.939	87.096	25.051	1.00	88.11	A16S
ATOM	12905	C6	A	A	622	132.193	88.192	24.791	1.00	88.11	A16S
ATOM	12906	N6	A	A	622	130.937	88.233	25.230	1.00	88.11	A16S
ATOM	12907	C5	A	A	622	132.784	89.225	24.063	1.00	88.11	A16S
ATOM	12908	N7	A	A	622	132.314	90.459	23.657	1.00	88.11	A16S
ATOM	12909	C8	A	A	622	133.317	90.975	22.996	1.00	88.11	A16S
ATOM	12910	C2*	A	A	622	135.470	89.689	20.785	1.00	71.19	A16S
ATOM	12911	O2*	A	A	622	136.704	89.149	20.360	1.00	71.19	A16S
ATOM	12912	C3*	A	A	622	134.978	90.850	19.931	1.00	71.19	A16S
ATOM	12913	O3*	A	A	622	135.307	90.630	18.574	1.00	71.19	A16S
ATOM	12914	P	C	A	623	134.134	90.431	17.499	1.00	71.78	A16S
ATOM	12915	O1P	C	A	623	134.760	89.839	16.287	1.00	72.93	A16S
ATOM	12916	O2P	C	A	623	133.387	91.712	17.397	1.00	72.93	A16S
ATOM	12917	O5*	C	A	623	133.172	89.337	18.141	1.00	71.78	A16S
ATOM	12918	C5*	C	A	623	133.576	87.957	18.230	1.00	71.78	A16S
ATOM	12919	C4*	C	A	623	132.543	87.156	18.987	1.00	71.78	A16S
ATOM	12920	O4*	C	A	623	132.499	87.611	20.364	1.00	71.78	A16S
ATOM	12921	C1*	C	A	623	131.155	87.618	20.816	1.00	71.78	A16S
ATOM	12922	N1	C	A	623	130.780	89.010	21.122	1.00	72.93	A16S
ATOM	12923	C6	C	A	623	131.527	90.057	20.654	1.00	72.93	A16S
ATOM	12924	C2	C	A	623	129.633	89.250	21.889	1.00	72.93	A16S
ATOM	12925	O2	C	A	623	128.962	88.285	22.293	1.00	72.93	A16S
ATOM	12926	N3	C	A	623	129.279	90.528	22.162	1.00	72.93	A16S
ATOM	12927	C4	C	A	623	130.011	91.539	21.692	1.00	72.93	A16S
ATOM	12928	N4	C	A	623	129.620	92.783	21.981	1.00	72.93	A16S
ATOM	12929	C5	C	A	623	131.177	91.323	20.906	1.00	72.93	A16S



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ATOM	12930	C2*	C	A	623	130.282	87.025	19.706	1.00	71.78	A16S
ATOM	12931	O2*	C	A	623	130.125	85.639	19.908	1.00	71.78	A16S
ATOM	12932	C3*	C	A	623	131.119	87.308	18.472	1.00	71.78	A16S
ATOM	12933	O3*	C	A	623	130.835	86.389	17.425	1.00	71.78	A16S
ATOM	12934	P	C	A	624	129.723	86.766	16.321	1.00	74.53	A16S
ATOM	12935	O1P	C	A	624	129.648	85.665	15.302	1.00	88.55	A16S
ATOM	12936	O2P	C	A	624	129.970	88.173	15.873	1.00	88.55	A16S
ATOM	12937	O5*	C	A	624	128.365	86.753	17.150	1.00	74.53	A16S
ATOM	12938	C5*	C	A	624	127.870	85.544	17.735	1.00	74.53	A16S
ATOM	12939	C4*	C	A	624	126.626	85.834	18.529	1.00	74.53	A16S
ATOM	12940	O4*	C	A	624	126.972	86.644	19.677	1.00	74.53	A16S
ATOM	12941	C1*	C	A	624	125.916	87.546	19.947	1.00	74.53	A16S
ATOM	12942	N1	C	A	624	126.454	88.906	19.938	1.00	88.55	A16S
ATOM	12943	C6	C	A	624	127.596	89.205	19.254	1.00	88.55	A16S
ATOM	12944	C2	C	A	624	125.762	89.899	20.627	1.00	88.55	A16S
ATOM	12945	O2	C	A	624	124.746	89.586	21.278	1.00	88.55	A16S
ATOM	12946	N3	C	A	624	126.216	91.169	20.575	1.00	88.55	A16S
ATOM	12947	C4	C	A	624	127.323	91.452	19.885	1.00	88.55	A16S
ATOM	12948	N4	C	A	624	127.731	92.718	19.846	1.00	88.55	A16S
ATOM	12949	C5	C	A	624	128.060	90.451	19.202	1.00	88.55	A16S
ATOM	12950	C2*	C	A	624	124.814	87.344	18.900	1.00	74.53	A16S
ATOM	12951	O2*	C	A	624	123.750	86.609	19.467	1.00	74.53	A16S
ATOM	12952	C3*	C	A	624	125.565	86.626	17.782	1.00	74.53	A16S
ATOM	12953	O3*	C	A	624	124.743	85.756	17.017	1.00	74.53	A16S
ATOM	12954	P	G	A	625	123.810	86.357	15.862	1.00	65.42	A16S
ATOM	12955	O1P	G	A	625	123.211	85.242	15.083	1.00	89.32	A16S
ATOM	12956	O2P	G	A	625	124.565	87.416	15.153	1.00	89.32	A16S
ATOM	12957	O5*	G	A	625	122.620	87.046	16.667	1.00	65.42	A16S
ATOM	12958	C5*	G	A	625	121.698	86.249	17.431	1.00	65.42	A16S
ATOM	12959	C4*	G	A	625	120.661	87.124	18.091	1.00	65.42	A16S
ATOM	12960	O4*	G	A	625	121.306	88.031	19.025	1.00	65.42	A16S
ATOM	12961	C1*	G	A	625	120.598	89.261	19.057	1.00	65.42	A16S
ATOM	12962	N9	G	A	625	121.511	90.346	18.683	1.00	89.32	A16S
ATOM	12963	C4	G	A	625	121.233	91.702	18.707	1.00	89.32	A16S
ATOM	12964	N3	G	A	625	120.069	92.266	19.086	1.00	89.32	A16S
ATOM	12965	C2	G	A	625	120.110	93.582	19.007	1.00	89.32	A16S
ATOM	12966	N2	G	A	625	119.038	94.298	19.364	1.00	89.32	A16S
ATOM	12967	N1	G	A	625	121.200	94.291	18.577	1.00	89.32	A16S
ATOM	12968	C6	G	A	625	122.404	93.735	18.175	1.00	89.32	A16S
ATOM	12969	O6	G	A	625	123.316	94.466	17.790	1.00	89.32	A16S
ATOM	12970	C5	G	A	625	122.382	92.320	18.269	1.00	89.32	A16S
ATOM	12971	N7	G	A	625	123.366	91.384	17.982	1.00	89.32	A16S
ATOM	12972	C8	G	A	625	122.808	90.230	18.240	1.00	89.32	A16S
ATOM	12973	C2*	G	A	625	119.399	89.134	18.112	1.00	65.42	A16S
ATOM	12974	O2*	G	A	625	118.254	88.778	18.863	1.00	65.42	A16S
ATOM	12975	C3*	G	A	625	119.862	88.029	17.170	1.00	65.42	A16S
ATOM	12976	O3*	G	A	625	118.775	87.343	16.567	1.00	65.42	A16S
ATOM	12977	P	U	A	626	118.267	87.796	15.112	1.00	76.22	A16S
ATOM	12978	O1P	U	A	626	117.277	86.798	14.645	1.00	84.75	A16S
ATOM	12979	O2P	U	A	626	119.458	88.089	14.277	1.00	84.75	A16S
ATOM	12980	O5*	U	A	626	117.512	89.172	15.389	1.00	76.22	A16S
ATOM	12981	C5*	U	A	626	116.334	89.225	16.225	1.00	76.22	A16S
ATOM	12982	C4*	U	A	626	115.847	90.652	16.362	1.00	76.22	A16S
ATOM	12983	O4*	U	A	626	116.780	91.414	17.172	1.00	76.22	A16S
ATOM	12984	C1*	U	A	626	116.867	92.748	16.682	1.00	76.22	A16S
ATOM	12985	N1	U	A	626	118.256	93.015	16.257	1.00	84.75	A16S
ATOM	12986	C6	U	A	626	119.120	91.983	15.951	1.00	84.75	A16S
ATOM	12987	C2	U	A	626	118.679	94.341	16.171	1.00	84.75	A16S
ATOM	12988	O2	U	A	626	117.955	95.300	16.418	1.00	84.75	A16S
ATOM	12989	N3	U	A	626	119.986	94.503	15.778	1.00	84.75	A16S
ATOM	12990	C4	U	A	626	120.891	93.512	15.462	1.00	84.75	A16S
ATOM	12991	O4	U	A	626	122.042	93.819	15.154	1.00	84.75	A16S
ATOM	12992	C5	U	A	626	120.382	92.184	15.567	1.00	84.75	A16S
ATOM	12993	C2*	U	A	626	115.868	92.882	15.535	1.00	76.22	A16S
ATOM	12994	O2*	U	A	626	114.648	93.386	16.034	1.00	76.22	A16S
ATOM	12995	C3*	U	A	626	115.752	91.440	15.067	1.00	76.22	A16S
ATOM	12996	O3*	U	A	626	114.553	91.212	14.355	1.00	76.22	A16S
ATOM	12997	P	G	A	627	114.550	91.402	12.761	1.00	84.69	A16S
ATOM	12998	O1P	G	A	627	113.197	91.038	12.256	1.00	92.76	A16S
ATOM	12999	O2P	G	A	627	115.743	90.686	12.242	1.00	92.76	A16S
ATOM	13000	O5*	G	A	627	114.755	92.971	12.570	1.00	84.69	A16S
ATOM	13001	C5*	G	A	627	113.802	93.878	13.132	1.00	84.69	A16S
ATOM	13002	C4*	G	A	627	114.215	95.307	12.913	1.00	84.69	A16S
ATOM	13003	O4*	G	A	627	115.349	95.651	13.740	1.00	84.69	A16S
ATOM	13004	C1*	G	A	627	116.102	96.663	13.094	1.00	84.69	A16S
ATOM	13005	N9	G	A	627	117.477	96.210	12.895	1.00	92.76	A16S
ATOM	13006	C4	G	A	627	118.550	97.025	12.633	1.00	92.76	A16S



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ATOM	13007	N3	G	A 627	118.509	98.367	12.513	1.00	92.76	A16S
ATOM	13008	C2	G	A 627	119.701	98.878	12.285	1.00	92.76	A16S
ATOM	13009	N2	G	A 627	119.841	100.204	12.145	1.00	92.76	A16S
ATOM	13010	N1	G	A 627	120.842	98.131	12.179	1.00	92.76	A16S
ATOM	13011	C6	G	A 627	120.905	96.748	12.285	1.00	92.76	A16S
ATOM	13012	O6	G	A 627	121.984	96.174	12.158	1.00	92.76	A16S
ATOM	13013	C5	G	A 627	119.634	96.186	12.535	1.00	92.76	A16S
ATOM	13014	N7	G	A 627	119.253	94.863	12.717	1.00	92.76	A16S
ATOM	13015	C8	G	A 627	117.965	94.923	12.926	1.00	92.76	A16S
ATOM	13016	C2*	G	A 627	115.430	96.969	11.758	1.00	84.69	A16S
ATOM	13017	O2*	G	A 627	114.608	98.112	11.898	1.00	84.69	A16S
ATOM	13018	C3*	G	A 627	114.639	95.695	11.513	1.00	84.69	A16S
ATOM	13019	O3*	G	A 627	113.538	95.942	10.670	1.00	84.69	A16S
ATOM	13020	P	G	A 628	113.754	95.940	9.080	1.00	96.25	A16S
ATOM	13021	O1P	G	A 628	112.420	96.085	8.434	1.00	97.84	A16S
ATOM	13022	O2P	G	A 628	114.599	94.759	8.761	1.00	97.84	A16S
ATOM	13023	O5*	G	A 628	114.585	97.274	8.810	1.00	96.25	A16S
ATOM	13024	C5*	G	A 628	114.052	98.556	9.186	1.00	96.25	A16S
ATOM	13025	C4*	G	A 628	115.092	99.634	9.011	1.00	96.25	A16S
ATOM	13026	O4*	G	A 628	116.216	99.411	9.908	1.00	96.25	A16S
ATOM	13027	C1*	G	A 628	117.423	99.852	9.287	1.00	96.25	A16S
ATOM	13028	N9	G	A 628	118.347	98.717	9.162	1.00	97.84	A16S
ATOM	13029	C4	G	A 628	119.713	98.779	8.925	1.00	97.84	A16S
ATOM	13030	N3	G	A 628	120.453	99.903	8.795	1.00	97.84	A16S
ATOM	13031	C2	G	A 628	121.728	99.632	8.554	1.00	97.84	A16S
ATOM	13032	N2	G	A 628	122.606	100.630	8.399	1.00	97.84	A16S
ATOM	13033	N1	G	A 628	122.235	98.364	8.447	1.00	97.84	A16S
ATOM	13034	C6	G	A 628	121.495	97.195	8.570	1.00	97.84	A16S
ATOM	13035	O6	G	A 628	122.050	96.102	8.437	1.00	97.84	A16S
ATOM	13036	C5	G	A 628	120.128	97.466	8.836	1.00	97.84	A16S
ATOM	13037	N7	G	A 628	119.064	96.597	9.033	1.00	97.84	A16S
ATOM	13038	C8	G	A 628	118.033	97.378	9.226	1.00	97.84	A16S
ATOM	13039	C2*	G	A 628	117.041	100.436	7.924	1.00	96.25	A16S
ATOM	13040	O2*	G	A 628	116.880	101.837	8.030	1.00	96.25	A16S
ATOM	13041	C3*	G	A 628	115.727	99.721	7.637	1.00	96.25	A16S
ATOM	13042	O3*	G	A 628	114.917	100.423	6.712	1.00	96.25	A16S
ATOM	13043	P	G	A 629	115.118	100.166	5.137	1.00	116.59	A16S
ATOM	13044	O1P	G	A 629	114.036	100.910	4.445	1.00	108.57	A16S
ATOM	13045	O2P	G	A 629	115.273	98.707	4.892	1.00	108.57	A16S
ATOM	13046	O5*	G	A 629	116.517	100.861	4.819	1.00	116.59	A16S
ATOM	13047	C5*	G	A 629	116.735	102.254	5.124	1.00	116.59	A16S
ATOM	13048	C4*	G	A 629	118.185	102.628	4.912	1.00	116.59	A16S
ATOM	13049	O4*	G	A 629	119.023	101.992	5.915	1.00	116.59	A16S
ATOM	13050	C1*	G	A 629	120.282	101.649	5.346	1.00	116.59	A16S
ATOM	13051	N9	G	A 629	120.425	100.190	5.352	1.00	108.57	A16S
ATOM	13052	C4	G	A 629	121.595	99.472	5.182	1.00	108.57	A16S
ATOM	13053	N3	G	A 629	122.827	99.990	4.995	1.00	108.57	A16S
ATOM	13054	C2	G	A 629	123.746	99.048	4.862	1.00	108.57	A16S
ATOM	13055	N2	G	A 629	125.023	99.393	4.678	1.00	108.57	A16S
ATOM	13056	N1	G	A 629	123.480	97.699	4.903	1.00	108.57	A16S
ATOM	13057	C6	G	A 629	122.221	97.137	5.091	1.00	108.57	A16S
ATOM	13058	O6	G	A 629	122.090	95.903	5.112	1.00	108.57	A16S
ATOM	13059	C5	G	A 629	121.220	98.142	5.240	1.00	108.57	A16S
ATOM	13060	N7	G	A 629	119.850	98.024	5.446	1.00	108.57	A16S
ATOM	13061	C8	G	A 629	119.422	99.258	5.507	1.00	108.57	A16S
ATOM	13062	C2*	G	A 629	120.287	102.189	3.918	1.00	116.59	A16S
ATOM	13063	O2*	G	A 629	120.845	103.488	3.915	1.00	116.59	A16S
ATOM	13064	C3*	G	A 629	118.801	102.192	3.596	1.00	116.59	A16S
ATOM	13065	O3*	G	A 629	118.480	103.041	2.517	1.00	116.59	A16S
ATOM	13066	P	G	A 630	118.427	102.431	1.034	1.00	142.00	A16S
ATOM	13067	O1P	G	A 630	117.813	103.476	0.175	1.00	102.01	A16S
ATOM	13068	O2P	G	A 630	117.817	101.076	1.098	1.00	102.01	A16S
ATOM	13069	O5*	G	A 630	119.961	102.264	0.639	1.00	142.00	A16S
ATOM	13070	C5*	G	A 630	120.854	103.395	0.681	1.00	142.00	A16S
ATOM	13071	C4*	G	A 630	122.278	102.968	0.404	1.00	142.00	A16S
ATOM	13072	O4*	G	A 630	122.770	102.136	1.489	1.00	142.00	A16S
ATOM	13073	C1*	G	A 630	123.637	101.135	0.975	1.00	142.00	A16S
ATOM	13074	N9	G	A 630	123.036	99.828	1.246	1.00	102.01	A16S
ATOM	13075	C4	G	A 630	123.675	98.605	1.266	1.00	102.01	A16S
ATOM	13076	N3	G	A 630	124.999	98.387	1.079	1.00	102.01	A16S
ATOM	13077	C2	G	A 630	125.298	97.091	1.125	1.00	102.01	A16S
ATOM	13078	N2	G	A 630	126.567	96.684	0.969	1.00	102.01	A16S
ATOM	13079	N1	G	A 630	124.371	96.099	1.330	1.00	102.01	A16S
ATOM	13080	C6	G	A 630	123.006	96.304	1.522	1.00	102.01	A16S
ATOM	13081	O6	G	A 630	122.254	95.341	1.684	1.00	102.01	A16S
ATOM	13082	C5	G	A 630	122.674	97.678	1.488	1.00	102.01	A16S
ATOM	13083	N7	G	A 630	121.445	98.302	1.638	1.00	102.01	A16S



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ATOM	13084	C8	G	A	630	121.707	99.572	1.495	1.00102.01	A16S
ATOM	13085	C2*	G	A	630	123.790	101.396	-0.526	1.00142.00	A16S
ATOM	13086	O2*	G	A	630	124.945	102.184	-0.748	1.00142.00	A16S
ATOM	13087	C3*	G	A	630	122.494	102.137	-0.849	1.00142.00	A16S
ATOM	13088	O3*	G	A	630	122.569	102.947	-2.024	1.00142.00	A16S
ATOM	13089	P	G	A	631	122.006	102.376	-3.424	1.00119.73	A16S
ATOM	13090	O1P	G	A	631	120.681	101.740	-3.174	1.00160.36	A16S
ATOM	13091	O2P	G	A	631	122.121	103.450	-4.445	1.00160.36	A16S
ATOM	13092	O5*	G	A	631	123.035	101.217	-3.799	1.00119.73	A16S
ATOM	13093	C5*	G	A	631	124.464	101.451	-3.780	1.00119.73	A16S
ATOM	13094	C4*	G	A	631	125.211	100.143	-3.905	1.00119.73	A16S
ATOM	13095	O4*	G	A	631	125.059	99.364	-2.688	1.00119.73	A16S
ATOM	13096	C1*	G	A	631	124.887	97.990	-3.009	1.00119.73	A16S
ATOM	13097	N9	G	A	631	123.547	97.585	-2.563	1.00160.36	A16S
ATOM	13098	C4	G	A	631	123.085	96.296	-2.344	1.00160.36	A16S
ATOM	13099	N3	G	A	631	123.794	95.153	-2.495	1.00160.36	A16S
ATOM	13100	C2	G	A	631	123.067	94.077	-2.222	1.00160.36	A16S
ATOM	13101	N2	G	A	631	123.613	92.857	-2.325	1.00160.36	A16S
ATOM	13102	N1	G	A	631	121.749	94.117	-1.830	1.00160.36	A16S
ATOM	13103	C6	G	A	631	120.997	95.277	-1.664	1.00160.36	A16S
ATOM	13104	O6	G	A	631	119.815	95.199	-1.306	1.00160.36	A16S
ATOM	13105	C5	G	A	631	121.763	96.443	-1.955	1.00160.36	A16S
ATOM	13106	N7	G	A	631	121.403	97.785	-1.922	1.00160.36	A16S
ATOM	13107	C8	G	A	631	122.485	98.423	-2.286	1.00160.36	A16S
ATOM	13108	C2*	G	A	631	125.093	97.855	-4.523	1.00119.73	A16S
ATOM	13109	O2*	G	A	631	126.450	97.560	-4.800	1.00119.73	A16S
ATOM	13110	C3*	G	A	631	124.695	99.242	-5.010	1.00119.73	A16S
ATOM	13111	O3*	G	A	631	125.248	99.594	-6.266	1.00119.73	A16S
ATOM	13112	P	A	A	632	124.273	100.085	-7.452	1.00 95.12	A16S
ATOM	13113	O1P	A	A	632	124.109	101.561	-7.349	1.00113.99	A16S
ATOM	13114	O2P	A	A	632	123.061	99.217	-7.468	1.00113.99	A16S
ATOM	13115	O5*	A	A	632	125.117	99.779	-8.767	1.00 95.12	A16S
ATOM	13116	C5*	A	A	632	126.410	100.367	-8.957	1.00 95.12	A16S
ATOM	13117	C4*	A	A	632	127.419	99.302	-9.292	1.00 95.12	A16S
ATOM	13118	O4*	A	A	632	127.582	98.405	-8.163	1.00 95.12	A16S
ATOM	13119	C1*	A	A	632	127.819	97.088	-8.634	1.00 95.12	A16S
ATOM	13120	N9	A	A	632	126.757	96.214	-8.127	1.00113.99	A16S
ATOM	13121	C4	A	A	632	126.710	94.848	-8.270	1.00113.99	A16S
ATOM	13122	N3	A	A	632	127.627	94.059	-8.861	1.00113.99	A16S
ATOM	13123	C2	A	A	632	127.238	92.788	-8.832	1.00113.99	A16S
ATOM	13124	N1	A	A	632	126.116	92.254	-8.325	1.00113.99	A16S
ATOM	13125	C6	A	A	632	125.214	93.073	-7.745	1.00113.99	A16S
ATOM	13126	N6	A	A	632	124.092	92.541	-7.260	1.00113.99	A16S
ATOM	13127	C5	A	A	632	125.515	94.448	-7.698	1.00113.99	A16S
ATOM	13128	N7	A	A	632	124.832	95.538	-7.178	1.00113.99	A16S
ATOM	13129	C8	A	A	632	125.609	96.557	-7.453	1.00113.99	A16S
ATOM	13130	C2*	A	A	632	127.837	97.137	-10.167	1.00 95.12	A16S
ATOM	13131	O2*	A	A	632	129.155	97.226	-10.665	1.00 95.12	A16S
ATOM	13132	C3*	A	A	632	127.037	98.397	-10.445	1.00 95.12	A16S
ATOM	13133	O3*	A	A	632	127.362	98.964	-11.696	1.00 95.12	A16S
ATOM	13134	P	G	A	633	126.304	98.856	-12.896	1.00 78.60	A16S
ATOM	13135	O1P	G	A	633	126.886	99.476	-14.120	1.00 87.74	A16S
ATOM	13136	O2P	G	A	633	125.005	99.354	-12.367	1.00 87.74	A16S
ATOM	13137	O5*	G	A	633	126.178	97.288	-13.165	1.00 78.60	A16S
ATOM	13138	C5*	G	A	633	127.345	96.472	-13.407	1.00 78.60	A16S
ATOM	13139	C4*	G	A	633	126.970	95.009	-13.407	1.00 78.60	A16S
ATOM	13140	O4*	G	A	633	126.684	94.555	-12.058	1.00 78.60	A16S
ATOM	13141	C1*	G	A	633	125.616	93.620	-12.084	1.00 78.60	A16S
ATOM	13142	N9	G	A	633	124.488	94.174	-11.335	1.00 87.74	A16S
ATOM	13143	C4	G	A	633	123.458	93.461	-10.774	1.00 87.74	A16S
ATOM	13144	N3	G	A	633	123.339	92.114	-10.764	1.00 87.74	A16S
ATOM	13145	C2	G	A	633	122.226	91.724	-10.176	1.00 87.74	A16S
ATOM	13146	N2	G	A	633	121.957	90.416	-10.065	1.00 87.74	A16S
ATOM	13147	N1	G	A	633	121.298	92.591	-9.650	1.00 87.74	A16S
ATOM	13148	C6	G	A	633	121.402	93.980	-9.656	1.00 87.74	A16S
ATOM	13149	O6	G	A	633	120.502	94.671	-9.168	1.00 87.74	A16S
ATOM	13150	C5	G	A	633	122.594	94.407	-10.265	1.00 87.74	A16S
ATOM	13151	N7	G	A	633	123.087	95.684	-10.464	1.00 87.74	A16S
ATOM	13152	C8	G	A	633	124.214	95.499	-11.093	1.00 87.74	A16S
ATOM	13153	C2*	G	A	633	125.232	93.399	-13.551	1.00 78.60	A16S
ATOM	13154	O2*	G	A	633	125.882	92.262	-14.087	1.00 78.60	A16S
ATOM	13155	C3*	G	A	633	125.711	94.689	-14.186	1.00 78.60	A16S
ATOM	13156	O3*	G	A	633	125.962	94.540	-15.557	1.00 78.60	A16S
ATOM	13157	P	C	A	634	124.893	95.096	-16.599	1.00 70.12	A16S
ATOM	13158	O1P	C	A	634	125.512	95.054	-17.956	1.00 81.09	A16S
ATOM	13159	O2P	C	A	634	124.364	96.376	-16.053	1.00 81.09	A16S
ATOM	13160	O5*	C	A	634	123.741	94.007	-16.567	1.00 70.12	A16S



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ATOM	13161	C5*	C	A	634	123.965	92.726	-17.158	1.00	70.12	A16S
ATOM	13162	C4*	C	A	634	122.950	91.735	-16.663	1.00	70.12	A16S
ATOM	13163	O4*	C	A	634	122.951	91.735	-15.211	1.00	70.12	A16S
ATOM	13164	C1*	C	A	634	121.644	91.482	-14.739	1.00	70.12	A16S
ATOM	13165	N1	C	A	634	121.178	92.660	-13.983	1.00	81.09	A16S
ATOM	13166	C6	C	A	634	121.791	93.877	-14.105	1.00	81.09	A16S
ATOM	13167	C2	C	A	634	120.074	92.513	-13.141	1.00	81.09	A16S
ATOM	13168	O2	C	A	634	119.548	91.399	-13.037	1.00	81.09	A16S
ATOM	13169	N3	C	A	634	119.605	93.582	-12.462	1.00	81.09	A16S
ATOM	13170	C4	C	A	634	120.198	94.764	-12.594	1.00	81.09	A16S
ATOM	13171	N4	C	A	634	119.689	95.790	-11.908	1.00	81.09	A16S
ATOM	13172	C5	C	A	634	121.336	94.947	-13.435	1.00	81.09	A16S
ATOM	13173	C2*	C	A	634	120.763	91.218	-15.961	1.00	70.12	A16S
ATOM	13174	O2*	C	A	634	120.746	89.824	-16.226	1.00	70.12	A16S
ATOM	13175	C3*	C	A	634	121.504	91.994	-17.039	1.00	70.12	A16S
ATOM	13176	O3*	C	A	634	121.209	91.501	-18.332	1.00	70.12	A16S
ATOM	13177	P	G	A	635	119.943	92.085	-19.134	1.00	71.19	A16S
ATOM	13178	O1P	G	A	635	119.924	91.506	-20.522	1.00	67.57	A16S
ATOM	13179	O2P	G	A	635	119.979	93.557	-18.946	1.00	67.57	A16S
ATOM	13180	O5*	G	A	635	118.683	91.530	-18.331	1.00	71.19	A16S
ATOM	13181	C5*	G	A	635	118.371	90.128	-18.326	1.00	71.19	A16S
ATOM	13182	C4*	G	A	635	116.967	89.903	-17.823	1.00	71.19	A16S
ATOM	13183	O4*	G	A	635	116.912	90.133	-16.398	1.00	71.19	A16S
ATOM	13184	C1*	G	A	635	115.649	90.666	-16.054	1.00	71.19	A16S
ATOM	13185	N9	G	A	635	115.843	91.968	-15.436	1.00	67.57	A16S
ATOM	13186	C4	G	A	635	114.909	92.657	-14.715	1.00	67.57	A16S
ATOM	13187	N3	G	A	635	113.666	92.228	-14.428	1.00	67.57	A16S
ATOM	13188	C2	G	A	635	112.999	93.107	-13.714	1.00	67.57	A16S
ATOM	13189	N2	G	A	635	111.754	92.827	-13.318	1.00	67.57	A16S
ATOM	13190	N1	G	A	635	113.504	94.326	-13.331	1.00	67.57	A16S
ATOM	13191	C6	G	A	635	114.775	94.799	-13.634	1.00	67.57	A16S
ATOM	13192	O6	G	A	635	115.123	95.939	-13.268	1.00	67.57	A16S
ATOM	13193	C5	G	A	635	115.512	93.847	-14.375	1.00	67.57	A16S
ATOM	13194	N7	G	A	635	116.812	93.893	-14.855	1.00	67.57	A16S
ATOM	13195	C8	G	A	635	116.964	92.756	-15.475	1.00	67.57	A16S
ATOM	13196	C2*	G	A	635	114.819	90.788	-17.328	1.00	71.19	A16S
ATOM	13197	O2*	G	A	635	113.977	89.661	-17.397	1.00	71.19	A16S
ATOM	13198	C3*	G	A	635	115.899	90.815	-18.402	1.00	71.19	A16S
ATOM	13199	O3*	G	A	635	115.430	90.333	-19.655	1.00	71.19	A16S
ATOM	13200	P	U	A	636	114.807	91.366	-20.711	1.00	79.54	A16S
ATOM	13201	O1P	U	A	636	114.372	90.602	-21.914	1.00	68.64	A16S
ATOM	13202	O2P	U	A	636	115.773	92.463	-20.861	1.00	68.64	A16S
ATOM	13203	O5*	U	A	636	113.524	91.930	-19.952	1.00	79.54	A16S
ATOM	13204	C5*	U	A	636	112.445	91.041	-19.614	1.00	79.54	A16S
ATOM	13205	C4*	U	A	636	111.307	91.786	-18.965	1.00	79.54	A16S
ATOM	13206	O4*	U	A	636	111.636	92.136	-17.599	1.00	79.54	A16S
ATOM	13207	C1*	U	A	636	111.027	93.372	-17.277	1.00	79.54	A16S
ATOM	13208	N1	U	A	636	112.081	94.349	-16.965	1.00	68.64	A16S
ATOM	13209	C6	U	A	636	113.378	94.182	-17.394	1.00	68.64	A16S
ATOM	13210	C2	U	A	636	111.719	95.459	-16.236	1.00	68.64	A16S
ATOM	13211	O2	U	A	636	110.585	95.635	-15.825	1.00	68.64	A16S
ATOM	13212	N3	U	A	636	112.729	96.359	-16.006	1.00	68.64	A16S
ATOM	13213	C4	U	A	636	114.030	96.262	-16.416	1.00	68.64	A16S
ATOM	13214	O4	U	A	636	114.813	97.163	-16.144	1.00	68.64	A16S
ATOM	13215	C5	U	A	636	114.336	95.079	-17.152	1.00	68.64	A16S
ATOM	13216	C2*	U	A	636	110.200	93.818	-18.486	1.00	79.54	A16S
ATOM	13217	O2*	U	A	636	108.864	93.378	-18.333	1.00	79.54	A16S
ATOM	13218	C3*	U	A	636	110.904	93.092	-19.619	1.00	79.54	A16S
ATOM	13219	O3*	U	A	636	110.048	92.887	-20.727	1.00	79.54	A16S
ATOM	13220	P	G	A	637	109.920	94.036	-21.840	1.00	82.30	A16S
ATOM	13221	O1P	G	A	637	109.128	93.490	-22.977	1.00	72.94	A16S
ATOM	13222	O2P	G	A	637	111.277	94.571	-22.098	1.00	72.94	A16S
ATOM	13223	O5*	G	A	637	109.114	95.189	-21.085	1.00	82.30	A16S
ATOM	13224	C5*	G	A	637	107.739	95.018	-20.711	1.00	82.30	A16S
ATOM	13225	C4*	G	A	637	107.226	96.262	-20.025	1.00	82.30	A16S
ATOM	13226	O4*	G	A	637	107.886	96.413	-18.741	1.00	82.30	A16S
ATOM	13227	C1*	G	A	637	108.061	97.794	-18.444	1.00	82.30	A16S
ATOM	13228	N9	G	A	637	109.489	98.084	-18.342	1.00	72.94	A16S
ATOM	13229	C4	G	A	637	110.067	99.149	-17.687	1.00	72.94	A16S
ATOM	13230	N3	G	A	637	109.414	100.110	-16.999	1.00	72.94	A16S
ATOM	13231	C2	G	A	637	110.248	101.005	-16.489	1.00	72.94	A16S
ATOM	13232	N2	G	A	637	109.775	102.025	-15.767	1.00	72.94	A16S
ATOM	13233	N1	G	A	637	111.609	100.964	-16.647	1.00	72.94	A16S
ATOM	13234	C6	G	A	637	112.300	99.986	-17.356	1.00	72.94	A16S
ATOM	13235	O6	G	A	637	113.538	100.042	-17.448	1.00	72.94	A16S
ATOM	13236	C5	G	A	637	111.421	99.017	-17.901	1.00	72.94	A16S
ATOM	13237	N7	G	A	637	111.693	97.890	-18.662	1.00	72.94	A16S



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ATOM	13238	C8	G	A	637	110.522	97.367	-18.897	1.00	72.94	A16S
ATOM	13239	C2*	G	A	637	107.429	98.585	-19.583	1.00	82.30	A16S
ATOM	13240	O2*	G	A	637	106.108	98.897	-19.218	1.00	82.30	A16S
ATOM	13241	C3*	G	A	637	107.496	97.583	-20.727	1.00	82.30	A16S
ATOM	13242	O3*	G	A	637	106.575	97.885	-21.761	1.00	82.30	A16S
ATOM	13243	P	G	A	638	107.015	98.903	-22.933	1.00	78.57	A16S
ATOM	13244	O1P	G	A	638	108.387	98.489	-23.361	1.00	77.90	A16S
ATOM	13245	O2P	G	A	638	105.914	98.961	-23.950	1.00	77.90	A16S
ATOM	13246	O5*	G	A	638	107.134	100.319	-22.191	1.00	78.57	A16S
ATOM	13247	C5*	G	A	638	105.995	100.893	-21.517	1.00	78.57	A16S
ATOM	13248	C4*	G	A	638	106.363	102.172	-20.797	1.00	78.57	A16S
ATOM	13249	O4*	G	A	638	107.217	101.913	-19.645	1.00	78.57	A16S
ATOM	13250	C1*	G	A	638	108.073	103.037	-19.417	1.00	78.57	A16S
ATOM	13251	N9	G	A	638	109.471	102.633	-19.583	1.00	77.90	A16S
ATOM	13252	C4	G	A	638	110.590	103.327	-19.156	1.00	77.90	A16S
ATOM	13253	N3	G	A	638	110.596	104.485	-18.463	1.00	77.90	A16S
ATOM	13254	C2	G	A	638	111.828	104.924	-18.243	1.00	77.90	A16S
ATOM	13255	N2	G	A	638	112.027	106.066	-17.581	1.00	77.90	A16S
ATOM	13256	N1	G	A	638	112.955	104.278	-18.658	1.00	77.90	A16S
ATOM	13257	C6	G	A	638	112.975	103.088	-19.374	1.00	77.90	A16S
ATOM	13258	O6	G	A	638	114.057	102.589	-19.715	1.00	77.90	A16S
ATOM	13259	C5	G	A	638	111.666	102.605	-19.623	1.00	77.90	A16S
ATOM	13260	N7	G	A	638	111.244	101.472	-20.306	1.00	77.90	A16S
ATOM	13261	C8	G	A	638	109.940	101.522	-20.247	1.00	77.90	A16S
ATOM	13262	C2*	G	A	638	107.746	104.075	-20.492	1.00	78.57	A16S
ATOM	13263	O2*	G	A	638	106.883	105.079	-19.986	1.00	78.57	A16S
ATOM	13264	C3*	G	A	638	107.139	103.204	-21.587	1.00	78.57	A16S
ATOM	13265	O3*	G	A	638	106.367	103.948	-22.499	1.00	78.57	A16S
ATOM	13266	P	G	A	639	107.076	104.525	-23.817	1.00	87.92	A16S
ATOM	13267	O1P	G	A	639	107.934	103.448	-24.386	1.00	67.11	A16S
ATOM	13268	O2P	G	A	639	106.020	105.121	-24.661	1.00	67.11	A16S
ATOM	13269	O5*	G	A	639	108.022	105.692	-23.265	1.00	87.92	A16S
ATOM	13270	C5*	G	A	639	107.461	106.813	-22.549	1.00	87.92	A16S
ATOM	13271	C4*	G	A	639	108.545	107.710	-21.978	1.00	87.92	A16S
ATOM	13272	O4*	G	A	639	109.396	106.961	-21.065	1.00	87.92	A16S
ATOM	13273	C1*	G	A	639	110.698	107.542	-21.037	1.00	87.92	A16S
ATOM	13274	N9	G	A	639	111.696	106.531	-21.395	1.00	67.11	A16S
ATOM	13275	C4	G	A	639	113.063	106.653	-21.258	1.00	67.11	A16S
ATOM	13276	N3	G	A	639	113.719	107.722	-20.773	1.00	67.11	A16S
ATOM	13277	C2	G	A	639	115.025	107.543	-20.776	1.00	67.11	A16S
ATOM	13278	N2	G	A	639	115.826	108.513	-20.348	1.00	67.11	A16S
ATOM	13279	N1	G	A	639	115.644	106.404	-21.201	1.00	67.11	A16S
ATOM	13280	C6	G	A	639	114.995	105.287	-21.700	1.00	67.11	A16S
ATOM	13281	O6	G	A	639	115.652	104.300	-22.049	1.00	67.11	A16S
ATOM	13282	C5	G	A	639	113.585	105.470	-21.724	1.00	67.11	A16S
ATOM	13283	N7	G	A	639	112.574	104.621	-22.154	1.00	67.11	A16S
ATOM	13284	C8	G	A	639	111.474	105.290	-21.936	1.00	67.11	A16S
ATOM	13285	C2*	G	A	639	110.698	108.714	-22.018	1.00	87.92	A16S
ATOM	13286	O2*	G	A	639	110.488	109.921	-21.310	1.00	87.92	A16S
ATOM	13287	C3*	G	A	639	109.535	108.353	-22.935	1.00	87.92	A16S
ATOM	13288	O3*	G	A	639	109.035	109.506	-23.581	1.00	87.92	A16S
ATOM	13289	P	A	A	640	109.751	110.017	-24.928	1.00	76.32	A16S
ATOM	13290	O1P	A	A	640	108.980	111.196	-25.416	1.00	71.84	A16S
ATOM	13291	O2P	A	A	640	109.967	108.844	-25.833	1.00	71.84	A16S
ATOM	13292	O5*	A	A	640	111.177	110.528	-24.437	1.00	76.32	A16S
ATOM	13293	C5*	A	A	640	111.289	111.674	-23.578	1.00	76.32	A16S
ATOM	13294	C4*	A	A	640	112.732	112.102	-23.452	1.00	76.32	A16S
ATOM	13295	O4*	A	A	640	113.479	111.117	-22.700	1.00	76.32	A16S
ATOM	13296	C1*	A	A	640	114.796	111.024	-23.205	1.00	76.32	A16S
ATOM	13297	N9	A	A	640	115.028	109.641	-23.643	1.00	71.84	A16S
ATOM	13298	C4	A	A	640	116.239	109.004	-23.777	1.00	71.84	A16S
ATOM	13299	N3	A	A	640	117.462	109.509	-23.542	1.00	71.84	A16S
ATOM	13300	C2	A	A	640	118.396	108.600	-23.781	1.00	71.84	A16S
ATOM	13301	N1	A	A	640	118.258	107.341	-24.187	1.00	71.84	A16S
ATOM	13302	C6	A	A	640	117.011	106.862	-24.401	1.00	71.84	A16S
ATOM	13303	N6	A	A	640	116.855	105.588	-24.784	1.00	71.84	A16S
ATOM	13304	C5	A	A	640	115.945	107.725	-24.201	1.00	71.84	A16S
ATOM	13305	N7	A	A	640	114.582	107.549	-24.340	1.00	71.84	A16S
ATOM	13306	C8	A	A	640	114.083	108.710	-23.998	1.00	71.84	A16S
ATOM	13307	C2*	A	A	640	114.936	112.078	-24.304	1.00	76.32	A16S
ATOM	13308	O2*	A	A	640	115.431	113.258	-23.702	1.00	76.32	A16S
ATOM	13309	C3*	A	A	640	113.492	112.261	-24.752	1.00	76.32	A16S
ATOM	13310	O3*	A	A	640	113.262	113.556	-25.290	1.00	76.32	A16S
ATOM	13311	P	U	A	641	113.280	113.776	-26.886	1.00	75.80	A16S
ATOM	13312	O1P	U	A	641	112.901	115.191	-27.145	1.00	69.60	A16S
ATOM	13313	O2P	U	A	641	112.509	112.669	-27.526	1.00	69.60	A16S
ATOM	13314	O5*	U	A	641	114.814	113.616	-27.275	1.00	75.80	A16S



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ATOM	13315	C5*	U	A	641	115.821	114.365	-26.582	1.00	75.80	A16S
ATOM	13316	C4*	U	A	641	117.178	113.981	-27.082	1.00	75.80	A16S
ATOM	13317	O4*	U	A	641	117.485	112.623	-26.667	1.00	75.80	A16S
ATOM	13318	C1*	U	A	641	117.831	111.850	-27.797	1.00	75.80	A16S
ATOM	13319	N1	U	A	641	117.316	110.480	-27.617	1.00	69.60	A16S
ATOM	13320	C6	U	A	641	115.969	110.213	-27.678	1.00	69.60	A16S
ATOM	13321	C2	U	A	641	118.233	109.449	-27.418	1.00	69.60	A16S
ATOM	13322	O2	U	A	641	119.438	109.632	-27.290	1.00	69.60	A16S
ATOM	13323	N3	U	A	641	117.680	108.196	-27.366	1.00	69.60	A16S
ATOM	13324	C4	U	A	641	116.347	107.873	-27.475	1.00	69.60	A16S
ATOM	13325	O4	U	A	641	116.025	106.699	-27.591	1.00	69.60	A16S
ATOM	13326	C5	U	A	641	115.475	108.981	-27.613	1.00	69.60	A16S
ATOM	13327	C2*	U	A	641	117.228	112.564	-29.010	1.00	75.80	A16S
ATOM	13328	O2*	U	A	641	117.981	112.303	-30.175	1.00	75.80	A16S
ATOM	13329	C3*	U	A	641	117.314	114.026	-28.597	1.00	75.80	A16S
ATOM	13330	O3*	U	A	641	118.578	114.549	-28.944	1.00	75.80	A16S
ATOM	13331	P	A	A	642	118.671	115.932	-29.756	1.00	71.26	A16S
ATOM	13332	O1P	A	A	642	117.925	116.979	-28.987	1.00	67.79	A16S
ATOM	13333	O2P	A	A	642	118.305	115.653	-31.177	1.00	67.79	A16S
ATOM	13334	O5*	A	A	642	120.222	116.279	-29.686	1.00	71.26	A16S
ATOM	13335	C5*	A	A	642	120.675	117.521	-29.141	1.00	71.26	A16S
ATOM	13336	C4*	A	A	642	121.956	117.311	-28.383	1.00	71.26	A16S
ATOM	13337	O4*	A	A	642	121.672	116.726	-27.091	1.00	71.26	A16S
ATOM	13338	C1*	A	A	642	122.738	115.875	-26.712	1.00	71.26	A16S
ATOM	13339	N9	A	A	642	122.197	114.530	-26.495	1.00	67.79	A16S
ATOM	13340	C4	A	A	642	122.747	113.545	-25.711	1.00	67.79	A16S
ATOM	13341	N3	A	A	642	123.871	113.616	-24.982	1.00	67.79	A16S
ATOM	13342	C2	A	A	642	124.092	112.464	-24.351	1.00	67.79	A16S
ATOM	13343	N1	A	A	642	123.375	111.330	-24.368	1.00	67.79	A16S
ATOM	13344	C6	A	A	642	122.262	111.291	-25.125	1.00	67.79	A16S
ATOM	13345	N6	A	A	642	121.572	110.157	-25.179	1.00	67.79	A16S
ATOM	13346	C5	A	A	642	121.906	112.454	-25.829	1.00	67.79	A16S
ATOM	13347	N7	A	A	642	120.839	112.744	-26.665	1.00	67.79	A16S
ATOM	13348	C8	A	A	642	121.056	113.984	-27.030	1.00	67.79	A16S
ATOM	13349	C2*	A	A	642	123.792	115.934	-27.825	1.00	71.26	A16S
ATOM	13350	O2*	A	A	642	124.763	116.922	-27.542	1.00	71.26	A16S
ATOM	13351	C3*	A	A	642	122.956	116.362	-29.017	1.00	71.26	A16S
ATOM	13352	O3*	A	A	642	123.748	116.979	-30.015	1.00	71.26	A16S
ATOM	13353	P	C	A	643	124.346	116.085	-31.206	1.00	73.72	A16S
ATOM	13354	O1P	C	A	643	123.269	115.204	-31.727	1.00	69.57	A16S
ATOM	13355	O2P	C	A	643	125.072	116.971	-32.142	1.00	69.57	A16S
ATOM	13356	O5*	C	A	643	125.414	115.167	-30.463	1.00	73.72	A16S
ATOM	13357	C5*	C	A	643	126.610	115.736	-29.889	1.00	73.72	A16S
ATOM	13358	C4*	C	A	643	127.434	114.658	-29.219	1.00	73.72	A16S
ATOM	13359	O4*	C	A	643	126.736	114.185	-28.035	1.00	73.72	A16S
ATOM	13360	C1*	C	A	643	126.940	112.786	-27.885	1.00	73.72	A16S
ATOM	13361	N1	C	A	643	125.627	112.110	-27.996	1.00	69.57	A16S
ATOM	13362	C6	C	A	643	124.605	112.672	-28.709	1.00	69.57	A16S
ATOM	13363	C2	C	A	643	125.446	110.883	-27.368	1.00	69.57	A16S
ATOM	13364	O2	C	A	643	126.392	110.382	-26.746	1.00	69.57	A16S
ATOM	13365	N3	C	A	643	124.247	110.264	-27.458	1.00	69.57	A16S
ATOM	13366	C4	C	A	643	123.258	110.825	-28.147	1.00	69.57	A16S
ATOM	13367	N4	C	A	643	122.090	110.193	-28.186	1.00	69.57	A16S
ATOM	13368	C5	C	A	643	123.419	112.065	-28.815	1.00	69.57	A16S
ATOM	13369	C2*	C	A	643	127.917	112.343	-28.980	1.00	73.72	A16S
ATOM	13370	O2*	C	A	643	129.262	112.390	-28.538	1.00	73.72	A16S
ATOM	13371	C3*	C	A	643	127.669	113.397	-30.041	1.00	73.72	A16S
ATOM	13372	O3*	C	A	643	128.749	113.479	-30.946	1.00	73.72	A16S
ATOM	13373	P	G	A	644	128.628	112.725	-32.357	1.00	68.34	A16S
ATOM	13374	O1P	G	A	644	129.781	113.165	-33.195	1.00	85.54	A16S
ATOM	13375	O2P	G	A	644	127.239	112.928	-32.851	1.00	85.54	A16S
ATOM	13376	O5*	G	A	644	128.791	111.176	-31.994	1.00	68.34	A16S
ATOM	13377	C5*	G	A	644	130.040	110.674	-31.474	1.00	68.34	A16S
ATOM	13378	C4*	G	A	644	129.946	109.198	-31.150	1.00	68.34	A16S
ATOM	13379	O4*	G	A	644	129.134	108.966	-29.966	1.00	68.34	A16S
ATOM	13380	C1*	G	A	644	128.457	107.720	-30.090	1.00	68.34	A16S
ATOM	13381	N9	G	A	644	127.009	107.944	-30.134	1.00	85.54	A16S
ATOM	13382	C4	G	A	644	126.056	106.959	-30.138	1.00	85.54	A16S
ATOM	13383	N3	G	A	644	126.292	105.638	-30.054	1.00	85.54	A16S
ATOM	13384	C2	G	A	644	125.182	104.932	-30.129	1.00	85.54	A16S
ATOM	13385	N2	G	A	644	125.237	103.605	-30.055	1.00	85.54	A16S
ATOM	13386	N1	G	A	644	123.938	105.476	-30.280	1.00	85.54	A16S
ATOM	13387	C6	G	A	644	123.669	106.835	-30.375	1.00	85.54	A16S
ATOM	13388	O6	G	A	644	122.513	107.219	-30.534	1.00	85.54	A16S
ATOM	13389	C5	G	A	644	124.850	107.610	-30.282	1.00	85.54	A16S
ATOM	13390	N7	G	A	644	125.032	108.985	-30.330	1.00	85.54	A16S
ATOM	13391	C8	G	A	644	126.326	109.140	-30.228	1.00	85.54	A16S



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ATOM	13392	C2*	G	A	644	128.918	107.092	-31.404	1.00	68.34	A16S
ATOM	13393	O2*	G	A	644	130.018	106.248	-31.157	1.00	68.34	A16S
ATOM	13394	C3*	G	A	644	129.314	108.319	-32.205	1.00	68.34	A16S
ATOM	13395	O3*	G	A	644	130.206	107.997	-33.242	1.00	68.34	A16S
ATOM	13396	P	C	A	645	129.634	107.805	-34.728	1.00	67.26	A16S
ATOM	13397	O1P	C	A	645	130.782	107.488	-35.612	1.00	74.61	A16S
ATOM	13398	O2P	C	A	645	128.777	108.988	-35.023	1.00	74.61	A16S
ATOM	13399	O5*	C	A	645	128.731	106.499	-34.611	1.00	67.26	A16S
ATOM	13400	C5*	C	A	645	129.299	105.270	-34.131	1.00	67.26	A16S
ATOM	13401	C4*	C	A	645	128.261	104.174	-34.110	1.00	67.26	A16S
ATOM	13402	O4*	C	A	645	127.255	104.457	-33.106	1.00	67.26	A16S
ATOM	13403	C1*	C	A	645	125.995	103.979	-33.544	1.00	67.26	A16S
ATOM	13404	N1	C	A	645	125.059	105.119	-33.610	1.00	74.61	A16S
ATOM	13405	C6	C	A	645	125.462	106.384	-33.281	1.00	74.61	A16S
ATOM	13406	C2	C	A	645	123.743	104.888	-34.020	1.00	74.61	A16S
ATOM	13407	O2	C	A	645	123.400	103.734	-34.323	1.00	74.61	A16S
ATOM	13408	N3	C	A	645	122.880	105.921	-34.083	1.00	74.61	A16S
ATOM	13409	C4	C	A	645	123.283	107.145	-33.762	1.00	74.61	A16S
ATOM	13410	N4	C	A	645	122.394	108.126	-33.843	1.00	74.61	A16S
ATOM	13411	C5	C	A	645	124.615	107.415	-33.346	1.00	74.61	A16S
ATOM	13412	C2*	C	A	645	126.205	103.296	-34.898	1.00	67.26	A16S
ATOM	13413	O2*	C	A	645	126.388	101.907	-34.709	1.00	67.26	A16S
ATOM	13414	C3*	C	A	645	127.475	103.969	-35.392	1.00	67.26	A16S
ATOM	13415	O3*	C	A	645	128.178	103.156	-36.314	1.00	67.26	A16S
ATOM	13416	P	U	A	646	127.939	103.369	-37.888	1.00	74.82	A16S
ATOM	13417	O1P	U	A	646	128.739	102.329	-38.604	1.00	70.21	A16S
ATOM	13418	O2P	U	A	646	128.113	104.810	-38.240	1.00	70.21	A16S
ATOM	13419	O5*	U	A	646	126.401	103.008	-38.059	1.00	74.82	A16S
ATOM	13420	C5*	U	A	646	125.926	101.684	-37.776	1.00	74.82	A16S
ATOM	13421	C4*	U	A	646	124.454	101.603	-38.045	1.00	74.82	A16S
ATOM	13422	O4*	U	A	646	123.734	102.342	-37.029	1.00	74.82	A16S
ATOM	13423	C1*	U	A	646	122.618	102.983	-37.616	1.00	74.82	A16S
ATOM	13424	N1	U	A	646	122.729	104.438	-37.420	1.00	70.21	A16S
ATOM	13425	C6	U	A	646	123.933	105.065	-37.180	1.00	70.21	A16S
ATOM	13426	C2	U	A	646	121.565	105.160	-37.501	1.00	70.21	A16S
ATOM	13427	O2	U	A	646	120.484	104.643	-37.704	1.00	70.21	A16S
ATOM	13428	N3	U	A	646	121.706	106.509	-37.339	1.00	70.21	A16S
ATOM	13429	C4	U	A	646	122.867	107.200	-37.106	1.00	70.21	A16S
ATOM	13430	O4	U	A	646	122.821	108.428	-36.989	1.00	70.21	A16S
ATOM	13431	C5	U	A	646	124.039	106.387	-37.025	1.00	70.21	A16S
ATOM	13432	C2*	U	A	646	122.582	102.610	-39.099	1.00	74.82	A16S
ATOM	13433	O2*	U	A	646	121.669	101.548	-39.289	1.00	74.82	A16S
ATOM	13434	C3*	U	A	646	124.036	102.236	-39.359	1.00	74.82	A16S
ATOM	13435	O3*	U	A	646	124.216	101.342	-40.449	1.00	74.82	A16S
ATOM	13436	P	C	A	647	124.596	101.919	-41.904	1.00	85.11	A16S
ATOM	13437	O1P	C	A	647	124.958	100.749	-42.742	1.00	74.65	A16S
ATOM	13438	O2P	C	A	647	125.555	103.045	-41.749	1.00	74.65	A16S
ATOM	13439	O5*	C	A	647	123.213	102.453	-42.481	1.00	85.11	A16S
ATOM	13440	C5*	C	A	647	122.127	101.534	-42.687	1.00	85.11	A16S
ATOM	13441	C4*	C	A	647	120.817	102.268	-42.801	1.00	85.11	A16S
ATOM	13442	O4*	C	A	647	120.485	102.939	-41.557	1.00	85.11	A16S
ATOM	13443	C1*	C	A	647	119.779	104.137	-41.839	1.00	85.11	A16S
ATOM	13444	N1	C	A	647	120.538	105.292	-41.323	1.00	74.65	A16S
ATOM	13445	C6	C	A	647	121.876	105.207	-41.035	1.00	74.65	A16S
ATOM	13446	C2	C	A	647	119.857	106.512	-41.160	1.00	74.65	A16S
ATOM	13447	O2	C	A	647	118.624	106.546	-41.376	1.00	74.65	A16S
ATOM	13448	N3	C	A	647	120.555	107.614	-40.768	1.00	74.65	A16S
ATOM	13449	C4	C	A	647	121.867	107.525	-40.527	1.00	74.65	A16S
ATOM	13450	N4	C	A	647	122.520	108.642	-40.191	1.00	74.65	A16S
ATOM	13451	C5	C	A	647	122.571	106.286	-40.636	1.00	74.65	A16S
ATOM	13452	C2*	C	A	647	119.632	104.239	-43.354	1.00	85.11	A16S
ATOM	13453	O2*	C	A	647	118.378	103.720	-43.733	1.00	85.11	A16S
ATOM	13454	C3*	C	A	647	120.788	103.374	-43.829	1.00	85.11	A16S
ATOM	13455	O3*	C	A	647	120.606	102.868	-45.134	1.00	85.11	A16S
ATOM	13456	P	A	A	648	121.368	103.578	-46.357	1.00	97.14	A16S
ATOM	13457	O1P	A	A	648	121.307	102.626	-47.515	1.00	77.36	A16S
ATOM	13458	O2P	A	A	648	122.698	104.053	-45.854	1.00	77.36	A16S
ATOM	13459	O5*	A	A	648	120.474	104.869	-46.652	1.00	97.14	A16S
ATOM	13460	C5*	A	A	648	119.078	104.729	-46.954	1.00	97.14	A16S
ATOM	13461	C4*	A	A	648	118.366	106.045	-46.800	1.00	97.14	A16S
ATOM	13462	O4*	A	A	648	118.346	106.453	-45.408	1.00	97.14	A16S
ATOM	13463	C1*	A	A	648	118.273	107.868	-45.334	1.00	97.14	A16S
ATOM	13464	N9	A	A	648	119.379	108.373	-44.520	1.00	77.36	A16S
ATOM	13465	C4	A	A	648	119.468	109.658	-44.035	1.00	77.36	A16S
ATOM	13466	N3	A	A	648	118.574	110.652	-44.189	1.00	77.36	A16S
ATOM	13467	C2	A	A	648	119.004	111.768	-43.600	1.00	77.36	A16S
ATOM	13468	N1	A	A	648	120.138	111.989	-42.927	1.00	77.36	A16S



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ATOM	13469	C6	A	A 648	121.016	110.971	-42.788	1.00	77.36	A16S
ATOM	13470	N6	A	A 648	122.147	111.194	-42.117	1.00	77.36	A16S
ATOM	13471	C5	A	A 648	120.679	109.728	-43.367	1.00	77.36	A16S
ATOM	13472	N7	A	A 648	121.337	108.504	-43.415	1.00	77.36	A16S
ATOM	13473	C8	A	A 648	120.526	107.734	-44.104	1.00	77.36	A16S
ATOM	13474	C2*	A	A 648	118.354	108.411	-46.761	1.00	97.14	A16S
ATOM	13475	O2*	A	A 648	117.066	108.747	-47.236	1.00	97.14	A16S
ATOM	13476	C3*	A	A 648	118.972	107.238	-47.506	1.00	97.14	A16S
ATOM	13477	O3*	A	A 648	118.674	107.288	-48.885	1.00	97.14	A16S
ATOM	13478	P	G	A 649	119.695	108.037	-49.874	1.00	84.60	A16S
ATOM	13479	O1P	G	A 649	119.252	107.788	-51.277	1.00	80.65	A16S
ATOM	13480	O2P	G	A 649	121.072	107.677	-49.468	1.00	80.65	A16S
ATOM	13481	O5*	G	A 649	119.488	109.579	-49.536	1.00	84.60	A16S
ATOM	13482	C5*	G	A 649	118.253	110.215	-49.863	1.00	84.60	A16S
ATOM	13483	C4*	G	A 649	118.275	111.660	-49.454	1.00	84.60	A16S
ATOM	13484	O4*	G	A 649	118.309	111.776	-48.013	1.00	84.60	A16S
ATOM	13485	C1*	G	A 649	118.921	113.001	-47.663	1.00	84.60	A16S
ATOM	13486	N9	G	A 649	120.047	112.747	-46.779	1.00	80.65	A16S
ATOM	13487	C4	G	A 649	120.639	113.683	-45.983	1.00	80.65	A16S
ATOM	13488	N3	G	A 649	120.241	114.965	-45.850	1.00	80.65	A16S
ATOM	13489	C2	G	A 649	121.035	115.647	-45.047	1.00	80.65	A16S
ATOM	13490	N2	G	A 649	120.780	116.940	-44.813	1.00	80.65	A16S
ATOM	13491	N1	G	A 649	122.134	115.109	-44.417	1.00	80.65	A16S
ATOM	13492	C6	G	A 649	122.557	113.786	-44.538	1.00	80.65	A16S
ATOM	13493	O6	G	A 649	123.560	113.401	-43.930	1.00	80.65	A16S
ATOM	13494	C5	G	A 649	121.712	113.046	-45.403	1.00	80.65	A16S
ATOM	13495	N7	G	A 649	121.770	111.720	-45.802	1.00	80.65	A16S
ATOM	13496	C8	G	A 649	120.755	111.584	-46.610	1.00	80.65	A16S
ATOM	13497	C2*	G	A 649	119.420	113.660	-48.949	1.00	84.60	A16S
ATOM	13498	O2*	G	A 649	118.515	114.653	-49.378	1.00	84.60	A16S
ATOM	13499	C3*	G	A 649	119.461	112.484	-49.905	1.00	84.60	A16S
ATOM	13500	O3*	G	A 649	119.332	112.928	-51.234	1.00	84.60	A16S
ATOM	13501	P	G	A 650	120.651	113.340	-52.054	1.00	92.61	A16S
ATOM	13502	O1P	G	A 650	120.153	113.694	-53.419	1.00	81.96	A16S
ATOM	13503	O2P	G	A 650	121.682	112.273	-51.899	1.00	81.96	A16S
ATOM	13504	O5*	G	A 650	121.193	114.639	-51.299	1.00	92.61	A16S
ATOM	13505	C5*	G	A 650	120.410	115.832	-51.290	1.00	92.61	A16S
ATOM	13506	C4*	G	A 650	121.000	116.876	-50.374	1.00	92.61	A16S
ATOM	13507	O4*	G	A 650	121.053	116.407	-49.003	1.00	92.61	A16S
ATOM	13508	C1*	G	A 650	122.020	117.163	-48.292	1.00	92.61	A16S
ATOM	13509	N9	G	A 650	123.008	116.270	-47.703	1.00	81.96	A16S
ATOM	13510	C4	G	A 650	124.034	116.658	-46.880	1.00	81.96	A16S
ATOM	13511	N3	G	A 650	124.260	117.910	-46.441	1.00	81.96	A16S
ATOM	13512	C2	G	A 650	125.342	117.983	-45.691	1.00	81.96	A16S
ATOM	13513	N2	G	A 650	125.700	119.152	-45.156	1.00	81.96	A16S
ATOM	13514	N1	G	A 650	126.148	116.914	-45.404	1.00	81.96	A16S
ATOM	13515	C6	G	A 650	125.932	115.611	-45.840	1.00	81.96	A16S
ATOM	13516	O6	G	A 650	126.721	114.711	-45.517	1.00	81.96	A16S
ATOM	13517	C5	G	A 650	124.764	115.517	-46.640	1.00	81.96	A16S
ATOM	13518	N7	G	A 650	124.185	114.419	-47.267	1.00	81.96	A16S
ATOM	13519	C8	G	A 650	123.142	114.913	-47.880	1.00	81.96	A16S
ATOM	13520	C2*	G	A 650	122.715	118.071	-49.303	1.00	92.61	A16S
ATOM	13521	O2*	G	A 650	122.126	119.350	-49.229	1.00	92.61	A16S
ATOM	13522	C3*	G	A 650	122.410	117.369	-50.619	1.00	92.61	A16S
ATOM	13523	O3*	G	A 650	122.501	118.271	-51.708	1.00	92.61	A16S
ATOM	13524	P	C	A 651	123.890	118.392	-52.514	1.00	73.04	A16S
ATOM	13525	O1P	C	A 651	123.671	119.303	-53.669	1.00	82.69	A16S
ATOM	13526	O2P	C	A 651	124.425	117.016	-52.752	1.00	82.69	A16S
ATOM	13527	O5*	C	A 651	124.856	119.123	-51.483	1.00	73.04	A16S
ATOM	13528	C5*	C	A 651	124.402	120.276	-50.780	1.00	73.04	A16S
ATOM	13529	C4*	C	A 651	125.462	120.767	-49.840	1.00	73.04	A16S
ATOM	13530	O4*	C	A 651	125.664	119.852	-48.744	1.00	73.04	A16S
ATOM	13531	C1*	C	A 651	126.996	119.964	-48.283	1.00	73.04	A16S
ATOM	13532	N1	C	A 651	127.574	118.616	-48.142	1.00	82.69	A16S
ATOM	13533	C6	C	A 651	127.131	117.568	-48.904	1.00	82.69	A16S
ATOM	13534	C2	C	A 651	128.594	118.424	-47.208	1.00	82.69	A16S
ATOM	13535	O2	C	A 651	128.982	119.396	-46.542	1.00	82.69	A16S
ATOM	13536	N3	C	A 651	129.133	117.191	-47.061	1.00	82.69	A16S
ATOM	13537	C4	C	A 651	128.697	116.180	-47.817	1.00	82.69	A16S
ATOM	13538	N4	C	A 651	129.265	114.992	-47.656	1.00	82.69	A16S
ATOM	13539	C5	C	A 651	127.662	116.347	-48.776	1.00	82.69	A16S
ATOM	13540	C2*	C	A 651	127.750	120.897	-49.232	1.00	73.04	A16S
ATOM	13541	O2*	C	A 651	127.862	122.147	-48.599	1.00	73.04	A16S
ATOM	13542	C3*	C	A 651	126.829	120.923	-50.451	1.00	73.04	A16S
ATOM	13543	O3*	C	A 651	126.831	122.150	-51.148	1.00	73.04	A16S
ATOM	13544	P	U	A 652	128.026	122.491	-52.151	1.00	76.66	A16S
ATOM	13545	O1P	U	A 652	127.602	123.634	-53.005	1.00	74.05	A16S



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ATOM	13546	O2P	U	A	652	128.512	121.234	-52.796	1.00	74.05	A16S
ATOM	13547	O5*	U	A	652	129.120	123.032	-51.142	1.00	76.66	A16S
ATOM	13548	C5*	U	A	652	130.390	123.398	-51.615	1.00	76.66	A16S
ATOM	13549	C4*	U	A	652	131.394	123.288	-50.514	1.00	76.66	A16S
ATOM	13550	O4*	U	A	652	131.186	122.069	-49.759	1.00	76.66	A16S
ATOM	13551	C1*	U	A	652	132.352	121.279	-49.813	1.00	76.66	A16S
ATOM	13552	N1	U	A	652	131.960	119.862	-49.819	1.00	74.05	A16S
ATOM	13553	C6	U	A	652	130.953	119.391	-50.627	1.00	74.05	A16S
ATOM	13554	C2	U	A	652	132.637	119.006	-48.967	1.00	74.05	A16S
ATOM	13555	O2	U	A	652	133.545	119.378	-48.236	1.00	74.05	A16S
ATOM	13556	N3	U	A	652	132.215	117.700	-49.002	1.00	74.05	A16S
ATOM	13557	C4	U	A	652	131.216	117.172	-49.779	1.00	74.05	A16S
ATOM	13558	O4	U	A	652	130.977	115.975	-49.716	1.00	74.05	A16S
ATOM	13559	C5	U	A	652	130.568	118.106	-50.630	1.00	74.05	A16S
ATOM	13560	C2*	U	A	652	133.131	121.748	-51.039	1.00	76.66	A16S
ATOM	13561	O2*	U	A	652	134.506	121.464	-50.907	1.00	76.66	A16S
ATOM	13562	C3*	U	A	652	132.809	123.240	-51.044	1.00	76.66	A16S
ATOM	13563	O3*	U	A	652	133.602	123.954	-50.128	1.00	76.66	A16S
ATOM	13564	P	A	A	653	134.768	124.899	-50.669	1.00	86.75	A16S
ATOM	13565	O1P	A	A	653	134.266	126.291	-50.668	1.00	81.12	A16S
ATOM	13566	O2P	A	A	653	135.268	124.295	-51.937	1.00	81.12	A16S
ATOM	13567	O5*	A	A	653	135.872	124.752	-49.534	1.00	86.75	A16S
ATOM	13568	C5*	A	A	653	136.218	123.453	-49.035	1.00	86.75	A16S
ATOM	13569	C4*	A	A	653	136.979	123.582	-47.750	1.00	86.75	A16S
ATOM	13570	O4*	A	A	653	136.164	124.266	-46.758	1.00	86.75	A16S
ATOM	13571	C1*	A	A	653	136.110	123.487	-45.575	1.00	86.75	A16S
ATOM	13572	N9	A	A	653	134.824	123.703	-44.900	1.00	81.12	A16S
ATOM	13573	C4	A	A	653	133.596	123.221	-45.286	1.00	81.12	A16S
ATOM	13574	N3	A	A	653	133.319	122.478	-46.373	1.00	81.12	A16S
ATOM	13575	C2	A	A	653	132.023	122.181	-46.419	1.00	81.12	A16S
ATOM	13576	N1	A	A	653	131.047	122.512	-45.559	1.00	81.12	A16S
ATOM	13577	C6	A	A	653	131.364	123.259	-44.473	1.00	81.12	A16S
ATOM	13578	N6	A	A	653	130.394	123.575	-43.607	1.00	81.12	A16S
ATOM	13579	C5	A	A	653	132.703	123.650	-44.319	1.00	81.12	A16S
ATOM	13580	N7	A	A	653	133.347	124.410	-43.355	1.00	81.12	A16S
ATOM	13581	C8	A	A	653	134.598	124.412	-43.743	1.00	81.12	A16S
ATOM	13582	C2*	A	A	653	136.379	122.049	-46.018	1.00	86.75	A16S
ATOM	13583	O2*	A	A	653	136.816	121.267	-44.923	1.00	86.75	A16S
ATOM	13584	C3*	A	A	653	137.412	122.261	-47.129	1.00	86.75	A16S
ATOM	13585	O3*	A	A	653	138.712	122.457	-46.582	1.00	86.75	A16S
ATOM	13586	P	G	A	654	140.011	121.928	-47.374	1.00	79.97	A16S
ATOM	13587	O1P	G	A	654	141.119	122.746	-46.824	1.00	65.94	A16S
ATOM	13588	O2P	G	A	654	139.804	121.869	-48.872	1.00	65.94	A16S
ATOM	13589	O5*	G	A	654	140.186	120.436	-46.838	1.00	79.97	A16S
ATOM	13590	C5*	G	A	654	140.729	120.178	-45.523	1.00	79.97	A16S
ATOM	13591	C4*	G	A	654	140.753	118.694	-45.248	1.00	79.97	A16S
ATOM	13592	O4*	G	A	654	139.391	118.201	-45.135	1.00	79.97	A16S
ATOM	13593	C1*	G	A	654	139.293	116.915	-45.726	1.00	79.97	A16S
ATOM	13594	N9	G	A	654	138.375	116.998	-46.867	1.00	65.94	A16S
ATOM	13595	C4	G	A	654	137.784	115.944	-47.530	1.00	65.94	A16S
ATOM	13596	N3	G	A	654	137.939	114.644	-47.242	1.00	65.94	A16S
ATOM	13597	C2	G	A	654	137.239	113.874	-48.051	1.00	65.94	A16S
ATOM	13598	N2	G	A	654	137.264	112.552	-47.897	1.00	65.94	A16S
ATOM	13599	N1	G	A	654	136.460	114.340	-49.063	1.00	65.94	A16S
ATOM	13600	C6	G	A	654	136.288	115.676	-49.381	1.00	65.94	A16S
ATOM	13601	O6	G	A	654	135.558	115.991	-50.324	1.00	65.94	A16S
ATOM	13602	C5	G	A	654	137.024	116.515	-48.520	1.00	65.94	A16S
ATOM	13603	N7	G	A	654	137.128	117.899	-48.490	1.00	65.94	A16S
ATOM	13604	C8	G	A	654	137.938	118.141	-47.497	1.00	65.94	A16S
ATOM	13605	C2*	G	A	654	140.707	116.502	-46.142	1.00	79.97	A16S
ATOM	13606	O2*	G	A	654	141.317	115.751	-45.109	1.00	79.97	A16S
ATOM	13607	C3*	G	A	654	141.371	117.853	-46.347	1.00	79.97	A16S
ATOM	13608	O3*	G	A	654	142.782	117.785	-46.258	1.00	79.97	A16S
ATOM	13609	P	A	A	655	143.661	117.783	-47.610	1.00	76.76	A16S
ATOM	13610	O1P	A	A	655	145.084	117.685	-47.185	1.00	74.62	A16S
ATOM	13611	O2P	A	A	655	143.233	118.922	-48.466	1.00	74.62	A16S
ATOM	13612	O5*	A	A	655	143.237	116.432	-48.353	1.00	76.76	A16S
ATOM	13613	C5*	A	A	655	143.553	115.141	-47.782	1.00	76.76	A16S
ATOM	13614	C4*	A	A	655	142.892	114.037	-48.571	1.00	76.76	A16S
ATOM	13615	O4*	A	A	655	141.456	114.144	-48.427	1.00	76.76	A16S
ATOM	13616	C1*	A	A	655	140.827	113.827	-49.653	1.00	76.76	A16S
ATOM	13617	N9	A	A	655	140.178	115.034	-50.155	1.00	74.62	A16S
ATOM	13618	C4	A	A	655	139.169	115.077	-51.085	1.00	74.62	A16S
ATOM	13619	N3	A	A	655	138.570	114.035	-51.687	1.00	74.62	A16S
ATOM	13620	C2	A	A	655	137.640	114.457	-52.540	1.00	74.62	A16S
ATOM	13621	N1	A	A	655	137.268	115.706	-52.836	1.00	74.62	A16S
ATOM	13622	C6	A	A	655	137.892	116.729	-52.209	1.00	74.62	A16S



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ATOM	13623	N6	A	A	655	137.521	117.974	-52.493	1.00	74.62	A16S
ATOM	13624	C5	A	A	655	138.900	116.414	-51.284	1.00	74.62	A16S
ATOM	13625	N7	A	A	655	139.718	117.205	-50.488	1.00	74.62	A16S
ATOM	13626	C8	A	A	655	140.451	116.339	-49.835	1.00	74.62	A16S
ATOM	13627	C2*	A	A	655	141.909	113.370	-50.628	1.00	76.76	A16S
ATOM	13628	O2*	A	A	655	142.002	111.961	-50.611	1.00	76.76	A16S
ATOM	13629	C3*	A	A	655	143.135	114.078	-50.070	1.00	76.76	A16S
ATOM	13630	O3*	A	A	655	144.349	113.442	-50.439	1.00	76.76	A16S
ATOM	13631	P	C	A	656	145.145	113.946	-51.745	1.00	82.22	A16S
ATOM	13632	O1P	C	A	656	146.468	113.273	-51.712	1.00	72.95	A16S
ATOM	13633	O2P	C	A	656	145.082	115.426	-51.824	1.00	72.95	A16S
ATOM	13634	O5*	C	A	656	144.301	113.367	-52.963	1.00	82.22	A16S
ATOM	13635	C5*	C	A	656	144.117	111.962	-53.110	1.00	82.22	A16S
ATOM	13636	C4*	C	A	656	143.024	111.683	-54.102	1.00	82.22	A16S
ATOM	13637	O4*	C	A	656	141.761	112.210	-53.604	1.00	82.22	A16S
ATOM	13638	C1*	C	A	656	140.960	112.634	-54.696	1.00	82.22	A16S
ATOM	13639	N1	C	A	656	140.781	114.096	-54.623	1.00	72.95	A16S
ATOM	13640	C6	C	A	656	141.678	114.883	-53.967	1.00	72.95	A16S
ATOM	13641	C2	C	A	656	139.676	114.679	-55.276	1.00	72.95	A16S
ATOM	13642	O2	C	A	656	138.841	113.943	-55.830	1.00	72.95	A16S
ATOM	13643	N3	C	A	656	139.543	116.024	-55.282	1.00	72.95	A16S
ATOM	13644	C4	C	A	656	140.441	116.779	-54.657	1.00	72.95	A16S
ATOM	13645	N4	C	A	656	140.281	118.094	-54.702	1.00	72.95	A16S
ATOM	13646	C5	C	A	656	141.549	116.215	-53.960	1.00	72.95	A16S
ATOM	13647	C2*	C	A	656	141.727	112.292	-55.969	1.00	82.22	A16S
ATOM	13648	O2*	C	A	656	141.374	110.991	-56.400	1.00	82.22	A16S
ATOM	13649	C3*	C	A	656	143.160	112.337	-55.467	1.00	82.22	A16S
ATOM	13650	O3*	C	A	656	144.066	111.693	-56.352	1.00	82.22	A16S
ATOM	13651	P	G	A	657	144.938	112.594	-57.374	1.00	80.10	A16S
ATOM	13652	O1P	G	A	657	145.921	111.660	-57.993	1.00	86.61	A16S
ATOM	13653	O2P	G	A	657	145.417	113.821	-56.684	1.00	86.61	A16S
ATOM	13654	O5*	G	A	657	143.900	113.087	-58.483	1.00	80.10	A16S
ATOM	13655	C5*	G	A	657	143.149	112.135	-59.252	1.00	80.10	A16S
ATOM	13656	C4*	G	A	657	142.039	112.819	-60.010	1.00	80.10	A16S
ATOM	13657	O4*	G	A	657	141.169	113.529	-59.086	1.00	80.10	A16S
ATOM	13658	C1*	G	A	657	140.578	114.633	-59.749	1.00	80.10	A16S
ATOM	13659	N9	G	A	657	140.960	115.871	-59.080	1.00	86.61	A16S
ATOM	13660	C4	G	A	657	140.552	117.127	-59.452	1.00	86.61	A16S
ATOM	13661	N3	G	A	657	139.693	117.409	-60.450	1.00	86.61	A16S
ATOM	13662	C2	G	A	657	139.523	118.709	-60.600	1.00	86.61	A16S
ATOM	13663	N2	G	A	657	138.686	119.159	-61.545	1.00	86.61	A16S
ATOM	13664	N1	G	A	657	140.158	119.662	-59.836	1.00	86.61	A16S
ATOM	13665	C6	G	A	657	141.060	119.395	-58.813	1.00	86.61	A16S
ATOM	13666	O6	G	A	657	141.606	120.327	-58.212	1.00	86.61	A16S
ATOM	13667	C5	G	A	657	141.233	117.997	-58.626	1.00	86.61	A16S
ATOM	13668	N7	G	A	657	142.021	117.299	-57.721	1.00	86.61	A16S
ATOM	13669	C8	G	A	657	141.819	116.041	-58.019	1.00	86.61	A16S
ATOM	13670	C2*	G	A	657	141.120	114.653	-61.177	1.00	80.10	A16S
ATOM	13671	O2*	G	A	657	140.170	114.024	-62.007	1.00	80.10	A16S
ATOM	13672	C3*	G	A	657	142.426	113.875	-61.031	1.00	80.10	A16S
ATOM	13673	O3*	G	A	657	142.875	113.309	-62.267	1.00	80.10	A16S
ATOM	13674	P	G	A	658	143.919	114.125	-63.196	1.00	70.87	A16S
ATOM	13675	O1P	G	A	658	144.393	113.181	-64.237	1.00	75.88	A16S
ATOM	13676	O2P	G	A	658	144.915	114.830	-62.349	1.00	75.88	A16S
ATOM	13677	O5*	G	A	658	143.018	115.241	-63.890	1.00	70.87	A16S
ATOM	13678	C5*	G	A	658	141.896	114.872	-64.722	1.00	70.87	A16S
ATOM	13679	C4*	G	A	658	141.260	116.104	-65.318	1.00	70.87	A16S
ATOM	13680	O4*	G	A	658	140.648	116.889	-64.268	1.00	70.87	A16S
ATOM	13681	C1*	G	A	658	140.871	118.265	-64.504	1.00	70.87	A16S
ATOM	13682	N9	G	A	658	141.681	118.771	-63.403	1.00	75.88	A16S
ATOM	13683	C4	G	A	658	141.883	120.087	-63.045	1.00	75.88	A16S
ATOM	13684	N3	G	A	658	141.373	121.172	-63.667	1.00	75.88	A16S
ATOM	13685	C2	G	A	658	141.734	122.301	-63.063	1.00	75.88	A16S
ATOM	13686	N2	G	A	658	141.302	123.486	-63.527	1.00	75.88	A16S
ATOM	13687	N1	G	A	658	142.538	122.355	-61.949	1.00	75.88	A16S
ATOM	13688	C6	G	A	658	143.065	121.248	-61.294	1.00	75.88	A16S
ATOM	13689	O6	G	A	658	143.759	121.401	-60.285	1.00	75.88	A16S
ATOM	13690	C5	G	A	658	142.688	120.039	-61.926	1.00	75.88	A16S
ATOM	13691	N7	G	A	658	142.998	118.728	-61.598	1.00	75.88	A16S
ATOM	13692	C8	G	A	658	142.386	118.013	-62.501	1.00	75.88	A16S
ATOM	13693	C2*	G	A	658	141.551	118.396	-65.862	1.00	70.87	A16S
ATOM	13694	O2*	G	A	658	140.547	118.574	-66.839	1.00	70.87	A16S
ATOM	13695	C3*	G	A	658	142.241	117.047	-65.984	1.00	70.87	A16S
ATOM	13696	O3*	G	A	658	142.481	116.667	-67.327	1.00	70.87	A16S
ATOM	13697	P	U	A	659	143.862	117.086	-68.022	1.00	89.34	A16S
ATOM	13698	O1P	U	A	659	143.822	116.603	-69.430	1.00	90.80	A16S
ATOM	13699	O2P	U	A	659	144.994	116.693	-67.145	1.00	90.80	A16S



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ATOM	13700	O5*	U	A	659	143.785	118.671	-68.012	1.00	89.34	A16S
ATOM	13701	C5*	U	A	659	142.846	119.347	-68.845	1.00	89.34	A16S
ATOM	13702	C4*	U	A	659	143.094	120.824	-68.796	1.00	89.34	A16S
ATOM	13703	O4*	U	A	659	142.741	121.322	-67.483	1.00	89.34	A16S
ATOM	13704	C1*	U	A	659	143.621	122.368	-67.115	1.00	89.34	A16S
ATOM	13705	N1	U	A	659	144.313	121.970	-65.885	1.00	90.80	A16S
ATOM	13706	C6	U	A	659	144.632	120.655	-65.643	1.00	90.80	A16S
ATOM	13707	C2	U	A	659	144.645	122.964	-64.990	1.00	90.80	A16S
ATOM	13708	O2	U	A	659	144.345	124.133	-65.162	1.00	90.80	A16S
ATOM	13709	N3	U	A	659	145.332	122.538	-63.882	1.00	90.80	A16S
ATOM	13710	C4	U	A	659	145.699	121.235	-63.581	1.00	90.80	A16S
ATOM	13711	O4	U	A	659	146.336	120.999	-62.545	1.00	90.80	A16S
ATOM	13712	C5	U	A	659	145.292	120.264	-64.555	1.00	90.80	A16S
ATOM	13713	C2*	U	A	659	144.600	122.583	-68.270	1.00	89.34	A16S
ATOM	13714	O2*	U	A	659	144.173	123.672	-69.064	1.00	89.34	A16S
ATOM	13715	C3*	U	A	659	144.542	121.231	-68.972	1.00	89.34	A16S
ATOM	13716	O3*	U	A	659	144.936	121.258	-70.332	1.00	89.34	A16S
ATOM	13717	P	G	A	660	146.475	121.001	-70.705	1.00	87.56	A16S
ATOM	13718	O1P	G	A	660	146.554	121.159	-72.177	1.00	86.32	A16S
ATOM	13719	O2P	G	A	660	146.952	119.744	-70.078	1.00	86.32	A16S
ATOM	13720	O5*	G	A	660	147.201	122.240	-70.023	1.00	87.56	A16S
ATOM	13721	C5*	G	A	660	146.798	123.560	-70.388	1.00	87.56	A16S
ATOM	13722	C4*	G	A	660	147.482	124.590	-69.541	1.00	87.56	A16S
ATOM	13723	O4*	G	A	660	146.949	124.594	-68.197	1.00	87.56	A16S
ATOM	13724	C1*	G	A	660	147.945	125.056	-67.299	1.00	87.56	A16S
ATOM	13725	N9	G	A	660	148.184	124.042	-66.276	1.00	86.32	A16S
ATOM	13726	C4	G	A	660	148.769	124.260	-65.050	1.00	86.32	A16S
ATOM	13727	N3	G	A	660	149.178	125.451	-64.569	1.00	86.32	A16S
ATOM	13728	C2	G	A	660	149.731	125.340	-63.370	1.00	86.32	A16S
ATOM	13729	N2	G	A	660	150.175	126.435	-62.735	1.00	86.32	A16S
ATOM	13730	N1	G	A	660	149.885	124.151	-62.701	1.00	86.32	A16S
ATOM	13731	C6	G	A	660	149.476	122.910	-63.174	1.00	86.32	A16S
ATOM	13732	O6	G	A	660	149.678	121.898	-62.493	1.00	86.32	A16S
ATOM	13733	C5	G	A	660	148.860	123.017	-64.462	1.00	86.32	A16S
ATOM	13734	N7	G	A	660	148.313	122.041	-65.287	1.00	86.32	A16S
ATOM	13735	C8	G	A	660	147.919	122.695	-66.347	1.00	86.32	A16S
ATOM	13736	C2*	G	A	660	149.208	125.324	-68.117	1.00	87.56	A16S
ATOM	13737	O2*	G	A	660	149.246	126.701	-68.430	1.00	87.56	A16S
ATOM	13738	C3*	G	A	660	148.975	124.450	-69.344	1.00	87.56	A16S
ATOM	13739	O3*	G	A	660	149.699	124.903	-70.474	1.00	87.56	A16S
ATOM	13740	P	G	A	661	151.181	124.342	-70.733	1.00109.17		A16S
ATOM	13741	O1P	G	A	661	151.920	125.391	-71.486	1.00	83.50	A16S
ATOM	13742	O2P	G	A	661	151.112	122.949	-71.272	1.00	83.50	A16S
ATOM	13743	O5*	G	A	661	151.783	124.291	-69.267	1.00109.17		A16S
ATOM	13744	C5*	G	A	661	153.183	124.352	-69.046	1.00109.17		A16S
ATOM	13745	C4*	G	A	661	153.498	125.414	-68.026	1.00109.17		A16S
ATOM	13746	O4*	G	A	661	152.466	125.458	-67.009	1.00109.17		A16S
ATOM	13747	C1*	G	A	661	153.060	125.476	-65.720	1.00109.17		A16S
ATOM	13748	N9	G	A	661	152.814	124.168	-65.118	1.00	83.50	A16S
ATOM	13749	C4	G	A	661	153.148	123.762	-63.850	1.00	83.50	A16S
ATOM	13750	N3	G	A	661	153.770	124.507	-62.919	1.00	83.50	A16S
ATOM	13751	C2	G	A	661	153.942	123.836	-61.792	1.00	83.50	A16S
ATOM	13752	N2	G	A	661	154.542	124.425	-60.746	1.00	83.50	A16S
ATOM	13753	N1	G	A	661	153.540	122.539	-61.604	1.00	83.50	A16S
ATOM	13754	C6	G	A	661	152.909	121.753	-62.557	1.00	83.50	A16S
ATOM	13755	O6	G	A	661	152.604	120.589	-62.294	1.00	83.50	A16S
ATOM	13756	C5	G	A	661	152.712	122.456	-63.758	1.00	83.50	A16S
ATOM	13757	N7	G	A	661	152.121	122.046	-64.945	1.00	83.50	A16S
ATOM	13758	C8	G	A	661	152.203	123.089	-65.720	1.00	83.50	A16S
ATOM	13759	C2*	G	A	661	154.554	125.742	-65.913	1.00109.17		A16S
ATOM	13760	O2*	G	A	661	154.815	127.131	-65.839	1.00109.17		A16S
ATOM	13761	C3*	G	A	661	154.786	125.120	-67.286	1.00109.17		A16S
ATOM	13762	O3*	G	A	661	155.909	125.598	-68.004	1.00109.17		A16S
ATOM	13763	P	G	A	662	157.238	124.706	-68.057	1.00106.18		A16S
ATOM	13764	O1P	G	A	662	158.210	125.471	-68.887	1.00	81.36	A16S
ATOM	13765	O2P	G	A	662	156.883	123.310	-68.428	1.00	81.36	A16S
ATOM	13766	O5*	G	A	662	157.723	124.725	-66.541	1.00106.18		A16S
ATOM	13767	C5*	G	A	662	157.867	125.983	-65.863	1.00106.18		A16S
ATOM	13768	C4*	G	A	662	158.431	125.785	-64.486	1.00106.18		A16S
ATOM	13769	O4*	G	A	662	157.415	125.297	-63.582	1.00106.18		A16S
ATOM	13770	C1*	G	A	662	158.021	124.480	-62.596	1.00106.18		A16S
ATOM	13771	N9	G	A	662	157.411	123.156	-62.646	1.00	81.36	A16S
ATOM	13772	C4	G	A	662	157.423	122.207	-61.643	1.00	81.36	A16S
ATOM	13773	N3	G	A	662	158.011	122.335	-60.428	1.00	81.36	A16S
ATOM	13774	C2	G	A	662	157.848	121.247	-59.681	1.00	81.36	A16S
ATOM	13775	N2	G	A	662	158.376	121.191	-58.444	1.00	81.36	A16S
ATOM	13776	N1	G	A	662	157.154	120.130	-60.093	1.00	81.36	A16S



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ATOM	13777	C6	G	A	662	156.534	119.983	-61.332	1.00	81.36	A16S
ATOM	13778	O6	G	A	662	155.915	118.941	-61.594	1.00	81.36	A16S
ATOM	13779	C5	G	A	662	156.716	121.135	-62.148	1.00	81.36	A16S
ATOM	13780	N7	G	A	662	156.281	121.398	-63.440	1.00	81.36	A16S
ATOM	13781	C8	G	A	662	156.714	122.604	-63.693	1.00	81.36	A16S
ATOM	13782	C2*	G	A	662	159.522	124.442	-62.881	1.00	106.18	A16S
ATOM	13783	O2*	G	A	662	160.155	125.408	-62.070	1.00	106.18	A16S
ATOM	13784	C3*	G	A	662	159.570	124.794	-64.363	1.00	106.18	A16S
ATOM	13785	O3*	G	A	662	160.805	125.375	-64.758	1.00	106.18	A16S
ATOM	13786	P	A	A	663	162.032	124.428	-65.203	1.00	88.63	A16S
ATOM	13787	O1P	A	A	663	163.015	125.322	-65.886	1.00	74.23	A16S
ATOM	13788	O2P	A	A	663	161.528	123.215	-65.904	1.00	74.23	A16S
ATOM	13789	O5*	A	A	663	162.665	123.961	-63.817	1.00	88.63	A16S
ATOM	13790	C5*	A	A	663	163.147	124.938	-62.867	1.00	88.63	A16S
ATOM	13791	C4*	A	A	663	163.585	124.263	-61.592	1.00	88.63	A16S
ATOM	13792	O4*	A	A	663	162.433	123.793	-60.853	1.00	88.63	A16S
ATOM	13793	C1*	A	A	663	162.736	122.557	-60.228	1.00	88.63	A16S
ATOM	13794	N9	A	A	663	161.881	121.531	-60.816	1.00	74.23	A16S
ATOM	13795	C4	A	A	663	161.395	120.408	-60.193	1.00	74.23	A16S
ATOM	13796	N3	A	A	663	161.604	120.025	-58.923	1.00	74.23	A16S
ATOM	13797	C2	A	A	663	160.966	118.882	-58.670	1.00	74.23	A16S
ATOM	13798	N1	A	A	663	160.201	118.134	-59.485	1.00	74.23	A16S
ATOM	13799	C6	A	A	663	160.019	118.550	-60.756	1.00	74.23	A16S
ATOM	13800	N6	A	A	663	159.269	117.809	-61.569	1.00	74.23	A16S
ATOM	13801	C5	A	A	663	160.639	119.747	-61.146	1.00	74.23	A16S
ATOM	13802	N7	A	A	663	160.651	120.440	-62.348	1.00	74.23	A16S
ATOM	13803	C8	A	A	663	161.401	121.484	-62.101	1.00	74.23	A16S
ATOM	13804	C2*	A	A	663	164.204	122.255	-60.498	1.00	88.63	A16S
ATOM	13805	O2*	A	A	663	164.971	122.741	-59.416	1.00	88.63	A16S
ATOM	13806	C3*	A	A	663	164.431	123.024	-61.790	1.00	88.63	A16S
ATOM	13807	O3*	A	A	663	165.785	123.336	-62.029	1.00	88.63	A16S
ATOM	13808	P	G	A	664	166.679	122.307	-62.861	1.00	79.85	A16S
ATOM	13809	O1P	G	A	664	168.031	122.896	-62.958	1.00	71.50	A16S
ATOM	13810	O2P	G	A	664	165.930	121.951	-64.103	1.00	71.50	A16S
ATOM	13811	O5*	G	A	664	166.764	121.044	-61.893	1.00	79.85	A16S
ATOM	13812	C5*	G	A	664	167.237	121.208	-60.543	1.00	79.85	A16S
ATOM	13813	C4*	G	A	664	166.997	119.961	-59.734	1.00	79.85	A16S
ATOM	13814	O4*	G	A	664	165.588	119.738	-59.513	1.00	79.85	A16S
ATOM	13815	C1*	G	A	664	165.349	118.350	-59.374	1.00	79.85	A16S
ATOM	13816	N9	G	A	664	164.313	117.951	-60.314	1.00	71.50	A16S
ATOM	13817	C4	G	A	664	163.508	116.836	-60.222	1.00	71.50	A16S
ATOM	13818	N3	G	A	664	163.482	115.950	-59.202	1.00	71.50	A16S
ATOM	13819	C2	G	A	664	162.640	114.953	-59.438	1.00	71.50	A16S
ATOM	13820	N2	G	A	664	162.474	113.987	-58.537	1.00	71.50	A16S
ATOM	13821	N1	G	A	664	161.898	114.829	-60.581	1.00	71.50	A16S
ATOM	13822	C6	G	A	664	161.918	115.717	-61.649	1.00	71.50	A16S
ATOM	13823	O6	G	A	664	161.238	115.483	-62.660	1.00	71.50	A16S
ATOM	13824	C5	G	A	664	162.793	116.808	-61.400	1.00	71.50	A16S
ATOM	13825	N7	G	A	664	163.094	117.912	-62.184	1.00	71.50	A16S
ATOM	13826	C8	G	A	664	163.990	118.567	-61.494	1.00	71.50	A16S
ATOM	13827	C2*	G	A	664	166.658	117.612	-59.661	1.00	79.85	A16S
ATOM	13828	O2*	G	A	664	167.219	117.172	-58.446	1.00	79.85	A16S
ATOM	13829	C3*	G	A	664	167.488	118.681	-60.366	1.00	79.85	A16S
ATOM	13830	O3*	G	A	664	168.872	118.548	-60.084	1.00	79.85	A16S
ATOM	13831	P	A	A	665	169.887	118.063	-61.234	1.00	86.52	A16S
ATOM	13832	O1P	A	A	665	170.800	119.210	-61.500	1.00	71.84	A16S
ATOM	13833	O2P	A	A	665	169.130	117.440	-62.371	1.00	71.84	A16S
ATOM	13834	O5*	A	A	665	170.735	116.925	-60.506	1.00	86.52	A16S
ATOM	13835	C5*	A	A	665	171.376	115.916	-61.280	1.00	86.52	A16S
ATOM	13836	C4*	A	A	665	171.483	114.630	-60.506	1.00	86.52	A16S
ATOM	13837	O4*	A	A	665	172.732	114.543	-59.784	1.00	86.52	A16S
ATOM	13838	C1*	A	A	665	172.568	113.662	-58.694	1.00	86.52	A16S
ATOM	13839	N9	A	A	665	173.029	114.336	-57.482	1.00	71.84	A16S
ATOM	13840	C4	A	A	665	173.662	113.739	-56.418	1.00	71.84	A16S
ATOM	13841	N3	A	A	665	173.977	112.443	-56.281	1.00	71.84	A16S
ATOM	13842	C2	A	A	665	174.600	112.234	-55.129	1.00	71.84	A16S
ATOM	13843	N1	A	A	665	174.914	113.103	-54.170	1.00	71.84	A16S
ATOM	13844	C6	A	A	665	174.579	114.396	-54.339	1.00	71.84	A16S
ATOM	13845	N6	A	A	665	174.891	115.264	-53.383	1.00	71.84	A16S
ATOM	13846	C5	A	A	665	173.922	114.751	-55.516	1.00	71.84	A16S
ATOM	13847	N7	A	A	665	173.461	115.969	-55.996	1.00	71.84	A16S
ATOM	13848	C8	A	A	665	172.936	115.669	-57.161	1.00	71.84	A16S
ATOM	13849	C2*	A	A	665	171.097	113.236	-58.653	1.00	86.52	A16S
ATOM	13850	O2*	A	A	665	170.941	111.988	-59.300	1.00	86.52	A16S
ATOM	13851	C3*	A	A	665	170.425	114.325	-59.472	1.00	86.52	A16S
ATOM	13852	O3*	A	A	665	169.240	113.828	-60.059	1.00	86.52	A16S
ATOM	13853	P	G	A	666	167.847	113.996	-59.278	1.00	70.95	A16S



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ATOM	13854	O1P	G	A	666	166.857	114.493	-60.263	1.00	78.12	A16S
ATOM	13855	O2P	G	A	666	168.088	114.775	-58.043	1.00	78.12	A16S
ATOM	13856	O5*	G	A	666	167.456	112.504	-58.884	1.00	70.95	A16S
ATOM	13857	C5*	G	A	666	167.602	112.044	-57.536	1.00	70.95	A16S
ATOM	13858	C4*	G	A	666	166.656	110.900	-57.259	1.00	70.95	A16S
ATOM	13859	O4*	G	A	666	165.286	111.341	-57.459	1.00	70.95	A16S
ATOM	13860	C1*	G	A	666	164.508	110.276	-57.986	1.00	70.95	A16S
ATOM	13861	N9	G	A	666	164.105	110.623	-59.347	1.00	78.12	A16S
ATOM	13862	C4	G	A	666	163.418	109.814	-60.218	1.00	78.12	A16S
ATOM	13863	N3	G	A	666	162.957	108.577	-59.948	1.00	78.12	A16S
ATOM	13864	C2	G	A	666	162.360	108.035	-60.987	1.00	78.12	A16S
ATOM	13865	N2	G	A	666	161.832	106.803	-60.881	1.00	78.12	A16S
ATOM	13866	N1	G	A	666	162.234	108.656	-62.202	1.00	78.12	A16S
ATOM	13867	C6	G	A	666	162.707	109.927	-62.505	1.00	78.12	A16S
ATOM	13868	O6	G	A	666	162.558	110.389	-63.648	1.00	78.12	A16S
ATOM	13869	C5	G	A	666	163.335	110.524	-61.390	1.00	78.12	A16S
ATOM	13870	N7	G	A	666	163.926	111.771	-61.252	1.00	78.12	A16S
ATOM	13871	C8	G	A	666	164.363	111.788	-60.024	1.00	78.12	A16S
ATOM	13872	C2*	G	A	666	165.405	109.046	-58.018	1.00	70.95	A16S
ATOM	13873	O2*	G	A	666	165.232	108.361	-56.800	1.00	70.95	A16S
ATOM	13874	C3*	G	A	666	166.778	109.685	-58.159	1.00	70.95	A16S
ATOM	13875	O3*	G	A	666	167.835	108.827	-57.782	1.00	70.95	A16S
ATOM	13876	P	G	A	667	168.701	108.105	-58.927	1.00	69.25	A16S
ATOM	13877	O1P	G	A	667	169.890	107.487	-58.271	1.00	67.41	A16S
ATOM	13878	O2P	G	A	667	168.895	109.054	-60.061	1.00	67.41	A16S
ATOM	13879	O5*	G	A	667	167.753	106.925	-59.414	1.00	69.25	A16S
ATOM	13880	C5*	G	A	667	167.286	105.943	-58.482	1.00	69.25	A16S
ATOM	13881	C4*	G	A	667	166.300	105.020	-59.146	1.00	69.25	A16S
ATOM	13882	O4*	G	A	667	165.152	105.790	-59.572	1.00	69.25	A16S
ATOM	13883	C1*	G	A	667	164.696	105.310	-60.823	1.00	69.25	A16S
ATOM	13884	N9	G	A	667	164.943	106.352	-61.810	1.00	67.41	A16S
ATOM	13885	C4	G	A	667	164.540	106.328	-63.107	1.00	67.41	A16S
ATOM	13886	N3	G	A	667	163.863	105.328	-63.689	1.00	67.41	A16S
ATOM	13887	C2	G	A	667	163.586	105.593	-64.940	1.00	67.41	A16S
ATOM	13888	N2	G	A	667	162.906	104.685	-65.655	1.00	67.41	A16S
ATOM	13889	N1	G	A	667	163.950	106.766	-65.577	1.00	67.41	A16S
ATOM	13890	C6	G	A	667	164.647	107.817	-64.984	1.00	67.41	A16S
ATOM	13891	O6	G	A	667	164.900	108.848	-65.627	1.00	67.41	A16S
ATOM	13892	C5	G	A	667	164.957	107.527	-63.646	1.00	67.41	A16S
ATOM	13893	N7	G	A	667	165.639	108.277	-62.705	1.00	67.41	A16S
ATOM	13894	C8	G	A	667	165.609	107.540	-61.630	1.00	67.41	A16S
ATOM	13895	C2*	G	A	667	165.501	104.060	-61.162	1.00	69.25	A16S
ATOM	13896	O2*	G	A	667	164.817	102.914	-60.695	1.00	69.25	A16S
ATOM	13897	C3*	G	A	667	166.792	104.336	-60.411	1.00	69.25	A16S
ATOM	13898	O3*	G	A	667	167.515	103.153	-60.139	1.00	69.25	A16S
ATOM	13899	P	G	A	668	168.761	102.769	-61.070	1.00	70.20	A16S
ATOM	13900	O1P	G	A	668	169.484	101.652	-60.400	1.00	68.98	A16S
ATOM	13901	O2P	G	A	668	169.486	104.040	-61.395	1.00	68.98	A16S
ATOM	13902	O5*	G	A	668	168.077	102.156	-62.374	1.00	70.20	A16S
ATOM	13903	C5*	G	A	668	167.300	100.950	-62.272	1.00	70.20	A16S
ATOM	13904	C4*	G	A	668	166.631	100.635	-63.583	1.00	70.20	A16S
ATOM	13905	O4*	G	A	668	165.673	101.671	-63.905	1.00	70.20	A16S
ATOM	13906	C1*	G	A	668	165.647	101.883	-65.302	1.00	70.20	A16S
ATOM	13907	N9	G	A	668	166.097	103.246	-65.547	1.00	68.98	A16S
ATOM	13908	C4	G	A	668	166.062	103.922	-66.743	1.00	68.98	A16S
ATOM	13909	N3	G	A	668	165.589	103.443	-67.911	1.00	68.98	A16S
ATOM	13910	C2	G	A	668	165.672	104.339	-68.884	1.00	68.98	A16S
ATOM	13911	N2	G	A	668	165.205	104.039	-70.092	1.00	68.98	A16S
ATOM	13912	N1	G	A	668	166.206	105.595	-68.739	1.00	68.98	A16S
ATOM	13913	C6	G	A	668	166.715	106.112	-67.551	1.00	68.98	A16S
ATOM	13914	O6	G	A	668	167.192	107.265	-67.526	1.00	68.98	A16S
ATOM	13915	C5	G	A	668	166.605	105.164	-66.479	1.00	68.98	A16S
ATOM	13916	N7	G	A	668	166.968	105.268	-65.142	1.00	68.98	A16S
ATOM	13917	C8	G	A	668	166.650	104.110	-64.631	1.00	68.98	A16S
ATOM	13918	C2*	G	A	668	166.577	100.850	-65.934	1.00	70.20	A16S
ATOM	13919	O2*	G	A	668	165.820	99.700	-66.235	1.00	70.20	A16S
ATOM	13920	C3*	G	A	668	167.542	100.565	-64.793	1.00	70.20	A16S
ATOM	13921	O3*	G	A	668	168.152	99.280	-64.907	1.00	70.20	A16S
ATOM	13922	P	U	A	669	169.628	99.156	-65.536	1.00	77.42	A16S
ATOM	13923	O1P	U	A	669	170.130	97.780	-65.245	1.00	62.85	A16S
ATOM	13924	O2P	U	A	669	170.415	100.336	-65.090	1.00	62.85	A16S
ATOM	13925	O5*	U	A	669	169.371	99.304	-67.102	1.00	77.42	A16S
ATOM	13926	C5*	U	A	669	168.687	98.266	-67.831	1.00	77.42	A16S
ATOM	13927	C4*	U	A	669	168.545	98.638	-69.287	1.00	77.42	A16S
ATOM	13928	O4*	U	A	669	167.622	99.748	-69.424	1.00	77.42	A16S
ATOM	13929	C1*	U	A	669	168.016	100.560	-70.515	1.00	77.42	A16S
ATOM	13930	N1	U	A	669	168.390	101.883	-70.010	1.00	62.85	A16S



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ATOM	13931	C6	U	A	669	168.732	102.082	-68.693	1.00	62.85	A16S
ATOM	13932	C2	U	A	669	168.412	102.925	-70.923	1.00	62.85	A16S
ATOM	13933	O2	U	A	669	168.088	102.787	-72.096	1.00	62.85	A16S
ATOM	13934	N3	U	A	669	168.829	104.132	-70.415	1.00	62.85	A16S
ATOM	13935	C4	U	A	669	169.215	104.390	-69.113	1.00	62.85	A16S
ATOM	13936	O4	U	A	669	169.663	105.498	-68.828	1.00	62.85	A16S
ATOM	13937	C5	U	A	669	169.134	103.265	-68.227	1.00	62.85	A16S
ATOM	13938	C2*	U	A	669	169.241	99.919	-71.153	1.00	77.42	A16S
ATOM	13939	O2*	U	A	669	168.828	99.123	-72.244	1.00	77.42	A16S
ATOM	13940	C3*	U	A	669	169.802	99.120	-69.989	1.00	77.42	A16S
ATOM	13941	O3*	U	A	669	170.651	98.073	-70.418	1.00	77.42	A16S
ATOM	13942	P	G	A	670	172.228	98.349	-70.537	1.00	86.93	A16S
ATOM	13943	O1P	G	A	670	172.874	97.033	-70.739	1.00	84.25	A16S
ATOM	13944	O2P	G	A	670	172.630	99.186	-69.390	1.00	84.25	A16S
ATOM	13945	O5*	G	A	670	172.364	99.229	-71.864	1.00	86.93	A16S
ATOM	13946	C5*	G	A	670	171.948	98.691	-73.137	1.00	86.93	A16S
ATOM	13947	C4*	G	A	670	171.769	99.786	-74.165	1.00	86.93	A16S
ATOM	13948	O4*	G	A	670	170.858	100.790	-73.652	1.00	86.93	A16S
ATOM	13949	C1*	G	A	670	171.211	102.060	-74.170	1.00	86.93	A16S
ATOM	13950	N9	G	A	670	171.566	102.940	-73.061	1.00	84.25	A16S
ATOM	13951	C4	G	A	670	171.788	104.293	-73.157	1.00	84.25	A16S
ATOM	13952	N3	G	A	670	171.660	105.037	-74.277	1.00	84.25	A16S
ATOM	13953	C2	G	A	670	171.970	106.309	-74.067	1.00	84.25	A16S
ATOM	13954	N2	G	A	670	171.872	107.198	-75.069	1.00	84.25	A16S
ATOM	13955	N1	G	A	670	172.394	106.803	-72.862	1.00	84.25	A16S
ATOM	13956	C6	G	A	670	172.549	106.055	-71.703	1.00	84.25	A16S
ATOM	13957	O6	G	A	670	172.976	106.598	-70.686	1.00	84.25	A16S
ATOM	13958	C5	G	A	670	172.186	104.691	-71.903	1.00	84.25	A16S
ATOM	13959	N7	G	A	670	172.170	103.618	-71.018	1.00	84.25	A16S
ATOM	13960	C8	G	A	670	171.791	102.602	-71.747	1.00	84.25	A16S
ATOM	13961	C2*	G	A	670	172.408	101.868	-75.100	1.00	86.93	A16S
ATOM	13962	O2*	G	A	670	171.962	101.793	-76.440	1.00	86.93	A16S
ATOM	13963	C3*	G	A	670	173.005	100.570	-74.566	1.00	86.93	A16S
ATOM	13964	O3*	G	A	670	173.783	99.886	-75.543	1.00	86.93	A16S
ATOM	13965	P	G	A	671	175.395	99.972	-75.481	1.00	94.23	A16S
ATOM	13966	O1P	G	A	671	175.910	99.043	-76.533	1.00	88.66	A16S
ATOM	13967	O2P	G	A	671	175.846	99.802	-74.072	1.00	88.66	A16S
ATOM	13968	O5*	G	A	671	175.718	101.470	-75.924	1.00	94.23	A16S
ATOM	13969	C5*	G	A	671	175.371	101.908	-77.236	1.00	94.23	A16S
ATOM	13970	C4*	G	A	671	175.344	103.411	-77.313	1.00	94.23	A16S
ATOM	13971	O4*	G	A	671	174.497	103.945	-76.269	1.00	94.23	A16S
ATOM	13972	C1*	G	A	671	174.925	105.256	-75.952	1.00	94.23	A16S
ATOM	13973	N9	G	A	671	175.235	105.335	-74.529	1.00	88.66	A16S
ATOM	13974	C4	G	A	671	175.503	106.490	-73.841	1.00	88.66	A16S
ATOM	13975	N3	G	A	671	175.498	107.733	-74.361	1.00	88.66	A16S
ATOM	13976	C2	G	A	671	175.816	108.643	-73.463	1.00	88.66	A16S
ATOM	13977	N2	G	A	671	175.865	109.925	-73.822	1.00	88.66	A16S
ATOM	13978	N1	G	A	671	176.112	108.360	-72.150	1.00	88.66	A16S
ATOM	13979	C6	G	A	671	176.124	107.085	-71.589	1.00	88.66	A16S
ATOM	13980	O6	G	A	671	176.416	106.936	-70.389	1.00	88.66	A16S
ATOM	13981	C5	G	A	671	175.784	106.093	-72.552	1.00	88.66	A16S
ATOM	13982	N7	G	A	671	175.679	104.714	-72.428	1.00	88.66	A16S
ATOM	13983	C8	G	A	671	175.346	104.306	-73.624	1.00	88.66	A16S
ATOM	13984	C2*	G	A	671	176.161	105.567	-76.795	1.00	94.23	A16S
ATOM	13985	O2*	G	A	671	175.760	106.335	-77.913	1.00	94.23	A16S
ATOM	13986	C3*	G	A	671	176.653	104.170	-77.162	1.00	94.23	A16S
ATOM	13987	O3*	G	A	671	177.369	104.201	-78.392	1.00	94.23	A16S
ATOM	13988	P	U	A	672	178.973	104.070	-78.400	1.00	89.43	A16S
ATOM	13989	O1P	U	A	672	179.329	104.014	-79.848	1.00	80.52	A16S
ATOM	13990	O2P	U	A	672	179.404	102.978	-77.484	1.00	80.52	A16S
ATOM	13991	O5*	U	A	672	179.491	105.462	-77.827	1.00	89.43	A16S
ATOM	13992	C5*	U	A	672	179.225	106.668	-78.545	1.00	89.43	A16S
ATOM	13993	C4*	U	A	672	179.283	107.851	-77.623	1.00	89.43	A16S
ATOM	13994	O4*	U	A	672	178.503	107.567	-76.443	1.00	89.43	A16S
ATOM	13995	C1*	U	A	672	178.983	108.355	-75.371	1.00	89.43	A16S
ATOM	13996	N1	U	A	672	179.139	107.534	-74.163	1.00	80.52	A16S
ATOM	13997	C6	U	A	672	179.093	106.160	-74.191	1.00	80.52	A16S
ATOM	13998	C2	U	A	672	179.345	108.217	-72.982	1.00	80.52	A16S
ATOM	13999	O2	U	A	672	179.384	109.438	-72.925	1.00	80.52	A16S
ATOM	14000	N3	U	A	672	179.506	107.424	-71.875	1.00	80.52	A16S
ATOM	14001	C4	U	A	672	179.483	106.041	-71.829	1.00	80.52	A16S
ATOM	14002	O4	U	A	672	179.718	105.461	-70.756	1.00	80.52	A16S
ATOM	14003	C5	U	A	672	179.250	105.409	-73.097	1.00	80.52	A16S
ATOM	14004	C2*	U	A	672	180.289	109.012	-75.807	1.00	89.43	A16S
ATOM	14005	O2*	U	A	672	180.036	110.383	-76.044	1.00	89.43	A16S
ATOM	14006	C3*	U	A	672	180.642	108.217	-77.059	1.00	89.43	A16S
ATOM	14007	O3*	U	A	672	181.351	109.035	-77.965	1.00	89.43	A16S



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ATOM	14008	P	G	A	673	182.938	109.199	-77.807	1.00	97.17	A16S
ATOM	14009	O1P	G	A	673	183.412	109.746	-79.111	1.00	72.47	A16S
ATOM	14010	O2P	G	A	673	183.516	107.931	-77.260	1.00	72.47	A16S
ATOM	14011	O5*	G	A	673	183.121	110.353	-76.731	1.00	97.17	A16S
ATOM	14012	C5*	G	A	673	183.085	111.721	-77.137	1.00	97.17	A16S
ATOM	14013	C4*	G	A	673	183.490	112.596	-75.995	1.00	97.17	A16S
ATOM	14014	O4*	G	A	673	182.586	112.350	-74.897	1.00	97.17	A16S
ATOM	14015	C1*	G	A	673	183.281	112.481	-73.678	1.00	97.17	A16S
ATOM	14016	N9	G	A	673	183.170	111.229	-72.944	1.00	72.47	A16S
ATOM	14017	C4	G	A	673	183.308	111.088	-71.589	1.00	72.47	A16S
ATOM	14018	N3	G	A	673	183.554	112.088	-70.713	1.00	72.47	A16S
ATOM	14019	C2	G	A	673	183.654	111.645	-69.474	1.00	72.47	A16S
ATOM	14020	N2	G	A	673	183.915	112.516	-68.484	1.00	72.47	A16S
ATOM	14021	N1	G	A	673	183.510	110.319	-69.120	1.00	72.47	A16S
ATOM	14022	C6	G	A	673	183.248	109.275	-70.006	1.00	72.47	A16S
ATOM	14023	O6	G	A	673	183.127	108.120	-69.584	1.00	72.47	A16S
ATOM	14024	C5	G	A	673	183.152	109.740	-71.342	1.00	72.47	A16S
ATOM	14025	N7	G	A	673	182.914	109.049	-72.522	1.00	72.47	A16S
ATOM	14026	C8	G	A	673	182.928	109.972	-73.445	1.00	72.47	A16S
ATOM	14027	C2*	G	A	673	184.731	112.840	-73.994	1.00	97.17	A16S
ATOM	14028	O2*	G	A	673	184.864	114.239	-73.893	1.00	97.17	A16S
ATOM	14029	C3*	G	A	673	184.873	112.334	-75.423	1.00	97.17	A16S
ATOM	14030	O3*	G	A	673	185.855	113.070	-76.146	1.00	97.17	A16S
ATOM	14031	P	G	A	674	187.290	112.409	-76.475	1.00	67.95	A16S
ATOM	14032	O1P	G	A	674	187.720	113.040	-77.759	1.00	77.57	A16S
ATOM	14033	O2P	G	A	674	187.220	110.916	-76.375	1.00	77.57	A16S
ATOM	14034	O5*	G	A	674	188.233	112.967	-75.319	1.00	67.95	A16S
ATOM	14035	C5*	G	A	674	188.446	114.376	-75.187	1.00	67.95	A16S
ATOM	14036	C4*	G	A	674	188.541	114.758	-73.739	1.00	67.95	A16S
ATOM	14037	O4*	G	A	674	187.362	114.288	-73.050	1.00	67.95	A16S
ATOM	14038	C1*	G	A	674	187.693	113.929	-71.723	1.00	67.95	A16S
ATOM	14039	N9	G	A	674	187.444	112.507	-71.558	1.00	77.57	A16S
ATOM	14040	C4	G	A	674	187.218	111.840	-70.371	1.00	77.57	A16S
ATOM	14041	N3	G	A	674	187.159	112.395	-69.137	1.00	77.57	A16S
ATOM	14042	C2	G	A	674	186.945	111.482	-68.199	1.00	77.57	A16S
ATOM	14043	N2	G	A	674	186.865	111.839	-66.909	1.00	77.57	A16S
ATOM	14044	N1	G	A	674	186.799	110.145	-68.448	1.00	77.57	A16S
ATOM	14045	C6	G	A	674	186.859	109.554	-69.701	1.00	77.57	A16S
ATOM	14046	O6	G	A	674	186.725	108.329	-69.811	1.00	77.57	A16S
ATOM	14047	C5	G	A	674	187.086	110.514	-70.721	1.00	77.57	A16S
ATOM	14048	N7	G	A	674	187.212	110.353	-72.096	1.00	77.57	A16S
ATOM	14049	C8	G	A	674	187.419	111.559	-72.548	1.00	77.57	A16S
ATOM	14050	C2*	G	A	674	189.176	114.209	-71.527	1.00	67.95	A16S
ATOM	14051	O2*	G	A	674	189.329	115.483	-70.929	1.00	67.95	A16S
ATOM	14052	C3*	G	A	674	189.682	114.140	-72.959	1.00	67.95	A16S
ATOM	14053	O3*	G	A	674	190.892	114.846	-73.118	1.00	67.95	A16S
ATOM	14054	P	A	A	675	192.264	114.151	-72.660	1.00	84.65	A16S
ATOM	14055	O1P	A	A	675	193.386	115.038	-73.081	1.00	68.25	A16S
ATOM	14056	O2P	A	A	675	192.244	112.715	-73.082	1.00	68.25	A16S
ATOM	14057	O5*	A	A	675	192.198	114.195	-71.072	1.00	84.65	A16S
ATOM	14058	C5*	A	A	675	192.368	115.434	-70.377	1.00	84.65	A16S
ATOM	14059	C4*	A	A	675	192.465	115.189	-68.900	1.00	84.65	A16S
ATOM	14060	O4*	A	A	675	191.199	114.679	-68.398	1.00	84.65	A16S
ATOM	14061	C1*	A	A	675	191.442	113.781	-67.329	1.00	84.65	A16S
ATOM	14062	N9	A	A	675	190.904	112.461	-67.681	1.00	68.25	A16S
ATOM	14063	C4	A	A	675	190.559	111.464	-66.792	1.00	68.25	A16S
ATOM	14064	N3	A	A	675	190.600	111.513	-65.444	1.00	68.25	A16S
ATOM	14065	C2	A	A	675	190.222	110.348	-64.916	1.00	68.25	A16S
ATOM	14066	N1	A	A	675	189.840	109.224	-65.534	1.00	68.25	A16S
ATOM	14067	C6	A	A	675	189.809	109.207	-66.891	1.00	68.25	A16S
ATOM	14068	N6	A	A	675	189.440	108.084	-67.514	1.00	68.25	A16S
ATOM	14069	C5	A	A	675	190.178	110.381	-67.569	1.00	68.25	A16S
ATOM	14070	N7	A	A	675	190.249	110.693	-68.920	1.00	68.25	A16S
ATOM	14071	C8	A	A	675	190.675	111.936	-68.934	1.00	68.25	A16S
ATOM	14072	C2*	A	A	675	192.956	113.732	-67.120	1.00	84.65	A16S
ATOM	14073	O2*	A	A	675	193.337	114.708	-66.176	1.00	84.65	A16S
ATOM	14074	C3*	A	A	675	193.466	114.133	-68.490	1.00	84.65	A16S
ATOM	14075	O3*	A	A	675	194.792	114.619	-68.443	1.00	84.65	A16S
ATOM	14076	P	A	A	676	196.007	113.609	-68.771	1.00	75.81	A16S
ATOM	14077	O1P	A	A	676	197.282	114.401	-68.780	1.00	65.82	A16S
ATOM	14078	O2P	A	A	676	195.622	112.822	-69.979	1.00	65.82	A16S
ATOM	14079	O5*	A	A	676	196.025	112.605	-67.529	1.00	75.81	A16S
ATOM	14080	C5*	A	A	676	196.182	113.102	-66.186	1.00	75.81	A16S
ATOM	14081	C4*	A	A	676	195.898	112.011	-65.192	1.00	75.81	A16S
ATOM	14082	O4*	A	A	676	194.526	111.585	-65.335	1.00	75.81	A16S
ATOM	14083	C1*	A	A	676	194.424	110.206	-65.036	1.00	75.81	A16S
ATOM	14084	N9	A	A	676	193.842	109.523	-66.186	1.00	65.82	A16S



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ATOM	14085	C4	A	A 676	193.290	108.269	-66.181	1.00	65.82	A16S
ATOM	14086	N3	A	A 676	193.182	107.435	-65.140	1.00	65.82	A16S
ATOM	14087	C2	A	A 676	192.577	106.306	-65.506	1.00	65.82	A16S
ATOM	14088	N1	A	A 676	192.109	105.945	-66.701	1.00	65.82	A16S
ATOM	14089	C6	A	A 676	192.240	106.809	-67.727	1.00	65.82	A16S
ATOM	14090	N6	A	A 676	191.781	106.449	-68.925	1.00	65.82	A16S
ATOM	14091	C5	A	A 676	192.859	108.042	-67.468	1.00	65.82	A16S
ATOM	14092	N7	A	A 676	193.136	109.132	-68.274	1.00	65.82	A16S
ATOM	14093	C8	A	A 676	193.722	109.980	-67.468	1.00	65.82	A16S
ATOM	14094	C2*	A	A 676	195.817	109.692	-64.687	1.00	75.81	A16S
ATOM	14095	O2*	A	A 676	195.952	109.676	-63.281	1.00	75.81	A16S
ATOM	14096	C3*	A	A 676	196.700	110.734	-65.357	1.00	75.81	A16S
ATOM	14097	O3*	A	A 676	197.971	110.827	-64.743	1.00	75.81	A16S
ATOM	14098	P	U	A 677	199.146	109.844	-65.217	1.00	76.76	A16S
ATOM	14099	O1P	U	A 677	200.385	110.342	-64.572	1.00	73.61	A16S
ATOM	14100	O2P	U	A 677	199.096	109.689	-66.696	1.00	73.61	A16S
ATOM	14101	O5*	U	A 677	198.749	108.434	-64.586	1.00	76.76	A16S
ATOM	14102	C5*	U	A 677	198.739	108.249	-63.165	1.00	76.76	A16S
ATOM	14103	C4*	U	A 677	198.264	106.864	-62.816	1.00	76.76	A16S
ATOM	14104	O4*	U	A 677	196.876	106.697	-63.198	1.00	76.76	A16S
ATOM	14105	C1*	U	A 677	196.649	105.350	-63.589	1.00	76.76	A16S
ATOM	14106	N1	U	A 677	196.181	105.316	-64.989	1.00	73.61	A16S
ATOM	14107	C6	U	A 677	196.458	106.334	-65.878	1.00	73.61	A16S
ATOM	14108	C2	U	A 677	195.434	104.219	-65.387	1.00	73.61	A16S
ATOM	14109	O2	U	A 677	195.186	103.294	-64.656	1.00	73.61	A16S
ATOM	14110	N3	U	A 677	194.990	104.247	-66.680	1.00	73.61	A16S
ATOM	14111	C4	U	A 677	195.209	105.235	-67.612	1.00	73.61	A16S
ATOM	14112	O4	U	A 677	194.676	105.144	-68.726	1.00	73.61	A16S
ATOM	14113	C5	U	A 677	196.011	106.332	-67.141	1.00	73.61	A16S
ATOM	14114	C2*	U	A 677	197.956	104.593	-63.387	1.00	76.76	A16S
ATOM	14115	O2*	U	A 677	197.938	104.025	-62.092	1.00	76.76	A16S
ATOM	14116	C3*	U	A 677	198.970	105.719	-63.511	1.00	76.76	A16S
ATOM	14117	O3*	U	A 677	200.208	105.406	-62.911	1.00	76.76	A16S
ATOM	14118	P	U	A 678	201.397	104.831	-63.826	1.00	80.14	A16S
ATOM	14119	O1P	U	A 678	202.594	104.736	-62.949	1.00	60.19	A16S
ATOM	14120	O2P	U	A 678	201.455	105.665	-65.070	1.00	60.19	A16S
ATOM	14121	O5*	U	A 678	200.914	103.350	-64.177	1.00	80.14	A16S
ATOM	14122	C5*	U	A 678	200.675	102.397	-63.120	1.00	80.14	A16S
ATOM	14123	C4*	U	A 678	200.089	101.119	-63.670	1.00	80.14	A16S
ATOM	14124	O4*	U	A 678	198.736	101.350	-64.130	1.00	80.14	A16S
ATOM	14125	C1*	U	A 678	198.492	100.586	-65.303	1.00	80.14	A16S
ATOM	14126	N1	U	A 678	198.274	101.516	-66.425	1.00	60.19	A16S
ATOM	14127	C6	U	A 678	198.681	102.831	-66.339	1.00	60.19	A16S
ATOM	14128	C2	U	A 678	197.639	101.034	-67.573	1.00	60.19	A16S
ATOM	14129	O2	U	A 678	197.289	99.868	-67.704	1.00	60.19	A16S
ATOM	14130	N3	U	A 678	197.440	101.972	-68.558	1.00	60.19	A16S
ATOM	14131	C4	U	A 678	197.812	103.310	-68.519	1.00	60.19	A16S
ATOM	14132	O4	U	A 678	197.537	104.052	-69.468	1.00	60.19	A16S
ATOM	14133	C5	U	A 678	198.477	103.714	-67.314	1.00	60.19	A16S
ATOM	14134	C2*	U	A 678	199.714	99.707	-65.535	1.00	80.14	A16S
ATOM	14135	O2*	U	A 678	199.505	98.472	-64.890	1.00	80.14	A16S
ATOM	14136	C3*	U	A 678	200.806	100.533	-64.872	1.00	80.14	A16S
ATOM	14137	O3*	U	A 678	201.931	99.752	-64.506	1.00	80.14	A16S
ATOM	14138	P	C	A 679	203.190	99.665	-65.504	1.00	89.24	A16S
ATOM	14139	O1P	C	A 679	204.229	98.886	-64.776	1.00	57.90	A16S
ATOM	14140	O2P	C	A 679	203.503	101.034	-66.013	1.00	57.90	A16S
ATOM	14141	O5*	C	A 679	202.658	98.791	-66.726	1.00	89.24	A16S
ATOM	14142	C5*	C	A 679	202.269	97.423	-66.522	1.00	89.24	A16S
ATOM	14143	C4*	C	A 679	201.614	96.869	-67.762	1.00	89.24	A16S
ATOM	14144	O4*	C	A 679	200.385	97.593	-68.021	1.00	89.24	A16S
ATOM	14145	C1*	C	A 679	200.210	97.749	-69.416	1.00	89.24	A16S
ATOM	14146	N1	C	A 679	200.276	99.182	-69.729	1.00	57.90	A16S
ATOM	14147	C6	C	A 679	201.045	100.034	-68.982	1.00	57.90	A16S
ATOM	14148	C2	C	A 679	199.532	99.666	-70.813	1.00	57.90	A16S
ATOM	14149	O2	C	A 679	198.880	98.858	-71.492	1.00	57.90	A16S
ATOM	14150	N3	C	A 679	199.551	100.988	-71.096	1.00	57.90	A16S
ATOM	14151	C4	C	A 679	200.293	101.812	-70.354	1.00	57.90	A16S
ATOM	14152	N4	C	A 679	200.279	103.110	-70.655	1.00	57.90	A16S
ATOM	14153	C5	C	A 679	201.085	101.342	-69.258	1.00	57.90	A16S
ATOM	14154	C2*	C	A 679	201.333	96.991	-70.113	1.00	89.24	A16S
ATOM	14155	O2*	C	A 679	200.870	95.700	-70.440	1.00	89.24	A16S
ATOM	14156	C3*	C	A 679	202.417	97.012	-69.043	1.00	89.24	A16S
ATOM	14157	O3*	C	A 679	203.400	95.991	-69.194	1.00	89.24	A16S
ATOM	14158	P	C	A 680	204.785	96.329	-69.945	1.00	89.17	A16S
ATOM	14159	O1P	C	A 680	205.690	95.188	-69.672	1.00	77.27	A16S
ATOM	14160	O2P	C	A 680	205.220	97.720	-69.617	1.00	77.27	A16S
ATOM	14161	O5*	C	A 680	204.384	96.318	-71.486	1.00	89.17	A16S



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ATOM	14162	C5*	C	A	680	203.816	95.140	-72.095	1.00	89.17	A16S
ATOM	14163	C4*	C	A	680	203.324	95.455	-73.487	1.00	89.17	A16S
ATOM	14164	O4*	C	A	680	202.159	96.317	-73.416	1.00	89.17	A16S
ATOM	14165	C1*	C	A	680	202.170	97.226	-74.505	1.00	89.17	A16S
ATOM	14166	N1	C	A	680	202.271	98.601	-73.980	1.00	77.27	A16S
ATOM	14167	C6	C	A	680	202.750	98.851	-72.720	1.00	77.27	A16S
ATOM	14168	C2	C	A	680	201.874	99.666	-74.808	1.00	77.27	A16S
ATOM	14169	O2	C	A	680	201.452	99.412	-75.949	1.00	77.27	A16S
ATOM	14170	N3	C	A	680	201.969	100.940	-74.347	1.00	77.27	A16S
ATOM	14171	C4	C	A	680	202.443	101.172	-73.119	1.00	77.27	A16S
ATOM	14172	N4	C	A	680	202.529	102.442	-72.712	1.00	77.27	A16S
ATOM	14173	C5	C	A	680	202.854	100.109	-72.254	1.00	77.27	A16S
ATOM	14174	C2*	C	A	680	203.379	96.896	-75.374	1.00	89.17	A16S
ATOM	14175	O2*	C	A	680	202.979	96.061	-76.440	1.00	89.17	A16S
ATOM	14176	C3*	C	A	680	204.298	96.220	-74.366	1.00	89.17	A16S
ATOM	14177	O3*	C	A	680	205.286	95.397	-74.966	1.00	89.17	A16S
ATOM	14178	P	C	A	681	206.690	96.048	-75.403	1.00	91.62	A16S
ATOM	14179	O1P	C	A	681	207.580	94.934	-75.824	1.00	88.96	A16S
ATOM	14180	O2P	C	A	681	207.146	96.981	-74.339	1.00	88.96	A16S
ATOM	14181	O5*	C	A	681	206.297	96.913	-76.681	1.00	91.62	A16S
ATOM	14182	C5*	C	A	681	205.752	96.281	-77.853	1.00	91.62	A16S
ATOM	14183	C4*	C	A	681	205.592	97.288	-78.957	1.00	91.62	A16S
ATOM	14184	O4*	C	A	681	204.503	98.193	-78.632	1.00	91.62	A16S
ATOM	14185	C1*	C	A	681	204.814	99.504	-79.086	1.00	91.62	A16S
ATOM	14186	N1	C	A	681	204.910	100.417	-77.917	1.00	88.96	A16S
ATOM	14187	C6	C	A	681	205.347	99.960	-76.701	1.00	88.96	A16S
ATOM	14188	C2	C	A	681	204.569	101.784	-78.077	1.00	88.96	A16S
ATOM	14189	O2	C	A	681	204.152	102.182	-79.178	1.00	88.96	A16S
ATOM	14190	N3	C	A	681	204.708	102.631	-77.021	1.00	88.96	A16S
ATOM	14191	C4	C	A	681	205.158	102.170	-75.851	1.00	88.96	A16S
ATOM	14192	N4	C	A	681	205.302	103.038	-74.852	1.00	88.96	A16S
ATOM	14193	C5	C	A	681	205.487	100.794	-75.655	1.00	88.96	A16S
ATOM	14194	C2*	C	A	681	206.151	99.420	-79.826	1.00	91.62	A16S
ATOM	14195	O2*	C	A	681	205.939	99.240	-81.216	1.00	91.62	A16S
ATOM	14196	C3*	C	A	681	206.785	98.204	-79.165	1.00	91.62	A16S
ATOM	14197	O3*	C	A	681	207.837	97.635	-79.930	1.00	91.62	A16S
ATOM	14198	P	G	A	682	209.338	98.204	-79.749	1.00	96.81	A16S
ATOM	14199	O1P	G	A	682	210.214	97.436	-80.676	1.00	93.84	A16S
ATOM	14200	O2P	G	A	682	209.677	98.261	-78.299	1.00	93.84	A16S
ATOM	14201	O5*	G	A	682	209.249	99.697	-80.298	1.00	96.81	A16S
ATOM	14202	C5*	G	A	682	208.982	99.928	-81.681	1.00	96.81	A16S
ATOM	14203	C4*	G	A	682	208.952	101.400	-81.984	1.00	96.81	A16S
ATOM	14204	O4*	G	A	682	207.760	102.007	-81.424	1.00	96.81	A16S
ATOM	14205	C1*	G	A	682	208.023	103.368	-81.120	1.00	96.81	A16S
ATOM	14206	N9	G	A	682	207.916	103.563	-79.677	1.00	93.84	A16S
ATOM	14207	C4	G	A	682	207.831	104.775	-79.037	1.00	93.84	A16S
ATOM	14208	N3	G	A	682	207.754	105.978	-79.637	1.00	93.84	A16S
ATOM	14209	C2	G	A	682	207.726	106.961	-78.764	1.00	93.84	A16S
ATOM	14210	N2	G	A	682	207.638	108.220	-79.196	1.00	93.84	A16S
ATOM	14211	N1	G	A	682	207.781	106.784	-77.403	1.00	93.84	A16S
ATOM	14212	C6	G	A	682	207.873	105.555	-76.761	1.00	93.84	A16S
ATOM	14213	O6	G	A	682	207.951	105.505	-75.523	1.00	93.84	A16S
ATOM	14214	C5	G	A	682	207.880	104.483	-77.692	1.00	93.84	A16S
ATOM	14215	N7	G	A	682	207.942	103.111	-77.487	1.00	93.84	A16S
ATOM	14216	C8	G	A	682	207.950	102.605	-78.691	1.00	93.84	A16S
ATOM	14217	C2*	G	A	682	209.469	103.649	-81.526	1.00	96.81	A16S
ATOM	14218	O2*	G	A	682	209.515	104.197	-82.827	1.00	96.81	A16S
ATOM	14219	C3*	G	A	682	210.079	102.258	-81.444	1.00	96.81	A16S
ATOM	14220	O3*	G	A	682	211.292	102.159	-82.169	1.00	96.81	A16S
ATOM	14221	P	G	A	683	212.690	102.416	-81.404	1.00	97.08	A16S
ATOM	14222	O1P	G	A	683	213.780	101.941	-82.302	1.00	92.40	A16S
ATOM	14223	O2P	G	A	683	212.591	101.856	-80.018	1.00	92.40	A16S
ATOM	14224	O5*	G	A	683	212.766	104.006	-81.307	1.00	97.08	A16S
ATOM	14225	C5*	G	A	683	212.477	104.815	-82.457	1.00	97.08	A16S
ATOM	14226	C4*	G	A	683	212.371	106.269	-82.075	1.00	97.08	A16S
ATOM	14227	O4*	G	A	683	211.207	106.495	-81.239	1.00	97.08	A16S
ATOM	14228	C1*	G	A	683	211.459	107.583	-80.364	1.00	97.08	A16S
ATOM	14229	N9	G	A	683	211.251	107.149	-78.982	1.00	92.40	A16S
ATOM	14230	C4	G	A	683	211.102	107.965	-77.875	1.00	92.40	A16S
ATOM	14231	N3	G	A	683	211.129	109.317	-77.871	1.00	92.40	A16S
ATOM	14232	C2	G	A	683	210.957	109.816	-76.655	1.00	92.40	A16S
ATOM	14233	N2	G	A	683	210.974	111.145	-76.473	1.00	92.40	A16S
ATOM	14234	N1	G	A	683	210.760	109.051	-75.531	1.00	92.40	A16S
ATOM	14235	C6	G	A	683	210.721	107.659	-75.506	1.00	92.40	A16S
ATOM	14236	O6	G	A	683	210.526	107.062	-74.430	1.00	92.40	A16S
ATOM	14237	C5	G	A	683	210.920	107.108	-76.811	1.00	92.40	A16S
ATOM	14238	N7	G	A	683	210.963	105.785	-77.232	1.00	92.40	A16S



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ATOM	14239	C8	G	A	683	211.160	105.857	-78.521	1.00	92.40	A16S
ATOM	14240	C2*	G	A	683	212.882	108.078	-80.633	1.00	97.08	A16S
ATOM	14241	O2*	G	A	683	212.836	109.183	-81.515	1.00	97.08	A16S
ATOM	14242	C3*	G	A	683	213.525	106.860	-81.286	1.00	97.08	A16S
ATOM	14243	O3*	G	A	683	214.599	107.245	-82.134	1.00	97.08	A16S
ATOM	14244	P	A	A	684	216.116	107.117	-81.607	1.00	89.74	A16S
ATOM	14245	O1P	A	A	684	217.019	107.357	-82.775	1.00	85.89	A16S
ATOM	14246	O2P	A	A	684	216.229	105.848	-80.834	1.00	85.89	A16S
ATOM	14247	O5*	A	A	684	216.292	108.325	-80.580	1.00	89.74	A16S
ATOM	14248	C5*	A	A	684	216.207	109.696	-81.013	1.00	89.74	A16S
ATOM	14249	C4*	A	A	684	216.093	110.608	-79.816	1.00	89.74	A16S
ATOM	14250	O4*	A	A	684	214.807	110.405	-79.173	1.00	89.74	A16S
ATOM	14251	C1*	A	A	684	214.958	110.439	-77.765	1.00	89.74	A16S
ATOM	14252	N9	A	A	684	214.720	109.089	-77.262	1.00	85.89	A16S
ATOM	14253	C4	A	A	684	214.407	108.720	-75.976	1.00	85.89	A16S
ATOM	14254	N3	A	A	684	214.253	109.520	-74.907	1.00	85.89	A16S
ATOM	14255	C2	A	A	684	213.949	108.805	-73.827	1.00	85.89	A16S
ATOM	14256	N1	A	A	684	213.789	107.485	-73.703	1.00	85.89	A16S
ATOM	14257	C6	A	A	684	213.940	106.711	-74.796	1.00	85.89	A16S
ATOM	14258	N6	A	A	684	213.755	105.394	-74.678	1.00	85.89	A16S
ATOM	14259	C5	A	A	684	214.276	107.344	-76.001	1.00	85.89	A16S
ATOM	14260	N7	A	A	684	214.511	106.854	-77.273	1.00	85.89	A16S
ATOM	14261	C8	A	A	684	214.769	107.925	-77.980	1.00	85.89	A16S
ATOM	14262	C2*	A	A	684	216.390	110.874	-77.479	1.00	89.74	A16S
ATOM	14263	O2*	A	A	684	216.412	112.283	-77.376	1.00	89.74	A16S
ATOM	14264	C3*	A	A	684	217.112	110.353	-78.716	1.00	89.74	A16S
ATOM	14265	O3*	A	A	684	218.356	111.001	-78.968	1.00	89.74	A16S
ATOM	14266	P	G	A	685	219.717	110.373	-78.372	1.00	88.95	A16S
ATOM	14267	O1P	G	A	685	220.813	111.344	-78.627	1.00	90.53	A16S
ATOM	14268	O2P	G	A	685	219.856	108.951	-78.817	1.00	90.53	A16S
ATOM	14269	O5*	G	A	685	219.485	110.417	-76.803	1.00	88.95	A16S
ATOM	14270	C5*	G	A	685	219.231	111.671	-76.144	1.00	88.95	A16S
ATOM	14271	C4*	G	A	685	219.029	111.439	-74.678	1.00	88.95	A16S
ATOM	14272	O4*	G	A	685	217.768	110.765	-74.450	1.00	88.95	A16S
ATOM	14273	C1*	G	A	685	217.919	109.819	-73.412	1.00	88.95	A16S
ATOM	14274	N9	G	A	685	217.606	108.502	-73.945	1.00	90.53	A16S
ATOM	14275	C4	G	A	685	217.165	107.440	-73.210	1.00	90.53	A16S
ATOM	14276	N3	G	A	685	216.937	107.446	-71.882	1.00	90.53	A16S
ATOM	14277	C2	G	A	685	216.509	106.279	-71.452	1.00	90.53	A16S
ATOM	14278	N2	G	A	685	216.216	106.117	-70.161	1.00	90.53	A16S
ATOM	14279	N1	G	A	685	216.333	105.183	-72.257	1.00	90.53	A16S
ATOM	14280	C6	G	A	685	216.568	105.149	-73.628	1.00	90.53	A16S
ATOM	14281	O6	G	A	685	216.380	104.098	-74.261	1.00	90.53	A16S
ATOM	14282	C5	G	A	685	217.016	106.408	-74.108	1.00	90.53	A16S
ATOM	14283	N7	G	A	685	217.350	106.820	-75.392	1.00	90.53	A16S
ATOM	14284	C8	G	A	685	217.696	108.069	-75.247	1.00	90.53	A16S
ATOM	14285	C2*	G	A	685	219.355	109.889	-72.897	1.00	88.95	A16S
ATOM	14286	O2*	G	A	685	219.387	110.629	-71.692	1.00	88.95	A16S
ATOM	14287	C3*	G	A	685	220.071	110.509	-74.096	1.00	88.95	A16S
ATOM	14288	O3*	G	A	685	221.266	111.225	-73.827	1.00	88.95	A16S
ATOM	14289	P	U	A	686	222.595	110.426	-73.419	1.00	82.99	A16S
ATOM	14290	O1P	U	A	686	223.706	111.417	-73.303	1.00	81.65	A16S
ATOM	14291	O2P	U	A	686	222.782	109.180	-74.226	1.00	81.65	A16S
ATOM	14292	O5*	U	A	686	222.233	109.947	-71.967	1.00	82.99	A16S
ATOM	14293	C5*	U	A	686	223.244	109.547	-71.122	1.00	82.99	A16S
ATOM	14294	C4*	U	A	686	222.723	109.444	-69.741	1.00	82.99	A16S
ATOM	14295	O4*	U	A	686	221.454	108.738	-69.736	1.00	82.99	A16S
ATOM	14296	C1*	U	A	686	221.595	107.571	-68.963	1.00	82.99	A16S
ATOM	14297	N1	U	A	686	220.617	106.572	-69.414	1.00	81.65	A16S
ATOM	14298	C6	U	A	686	220.705	105.965	-70.636	1.00	81.65	A16S
ATOM	14299	C2	U	A	686	219.598	106.257	-68.535	1.00	81.65	A16S
ATOM	14300	O2	U	A	686	219.473	106.788	-67.448	1.00	81.65	A16S
ATOM	14301	N3	U	A	686	218.731	105.295	-68.972	1.00	81.65	A16S
ATOM	14302	C4	U	A	686	218.773	104.629	-70.172	1.00	81.65	A16S
ATOM	14303	O4	U	A	686	217.938	103.749	-70.405	1.00	81.65	A16S
ATOM	14304	C5	U	A	686	219.841	105.028	-71.035	1.00	81.65	A16S
ATOM	14305	C2*	U	A	686	223.083	107.224	-69.028	1.00	82.99	A16S
ATOM	14306	O2*	U	A	686	223.541	106.424	-67.971	1.00	82.99	A16S
ATOM	14307	C3*	U	A	686	223.687	108.611	-68.937	1.00	82.99	A16S
ATOM	14308	O3*	U	A	686	223.635	109.082	-67.618	1.00	82.99	A16S
ATOM	14309	P	A	A	687	224.989	109.367	-66.842	1.00	72.01	A16S
ATOM	14310	O1P	A	A	687	225.126	110.861	-66.703	1.00	72.36	A16S
ATOM	14311	O2P	A	A	687	226.049	108.572	-67.533	1.00	72.36	A16S
ATOM	14312	O5*	A	A	687	224.760	108.700	-65.413	1.00	72.01	A16S
ATOM	14313	C5*	A	A	687	223.747	109.173	-64.510	1.00	72.01	A16S
ATOM	14314	C4*	A	A	687	223.168	108.007	-63.769	1.00	72.01	A16S
ATOM	14315	O4*	A	A	687	222.317	107.246	-64.639	1.00	72.01	A16S



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ATOM	14316	C1*	A	A	687	222.211	105.951	-64.109	1.00	72.01	A16S
ATOM	14317	N9	A	A	687	221.673	105.084	-65.156	1.00	72.36	A16S
ATOM	14318	C4	A	A	687	220.688	104.132	-65.019	1.00	72.36	A16S
ATOM	14319	N3	A	A	687	220.048	103.768	-63.894	1.00	72.36	A16S
ATOM	14320	C2	A	A	687	219.139	102.829	-64.152	1.00	72.36	A16S
ATOM	14321	N1	A	A	687	218.820	102.258	-65.314	1.00	72.36	A16S
ATOM	14322	C6	A	A	687	219.481	102.644	-66.425	1.00	72.36	A16S
ATOM	14323	N6	A	A	687	219.156	102.077	-67.588	1.00	72.36	A16S
ATOM	14324	C5	A	A	687	220.474	103.629	-66.286	1.00	72.36	A16S
ATOM	14325	N7	A	A	687	221.324	104.231	-67.197	1.00	72.36	A16S
ATOM	14326	C8	A	A	687	222.012	105.076	-66.474	1.00	72.36	A16S
ATOM	14327	C2*	A	A	687	223.609	105.609	-63.590	1.00	72.01	A16S
ATOM	14328	O2*	A	A	687	223.563	104.721	-62.492	1.00	72.01	A16S
ATOM	14329	C3*	A	A	687	224.212	107.000	-63.319	1.00	72.01	A16S
ATOM	14330	O3*	A	A	687	224.850	107.344	-62.074	1.00	72.01	A16S
ATOM	14331	P	G	A	688	224.027	107.368	-60.683	1.00	74.76	A16S
ATOM	14332	O1P	G	A	688	224.958	107.942	-59.676	1.00	71.52	A16S
ATOM	14333	O2P	G	A	688	223.383	106.057	-60.417	1.00	71.52	A16S
ATOM	14334	O5*	G	A	688	222.888	108.454	-60.903	1.00	74.76	A16S
ATOM	14335	C5*	G	A	688	221.753	108.491	-60.029	1.00	74.76	A16S
ATOM	14336	C4*	G	A	688	220.518	108.069	-60.779	1.00	74.76	A16S
ATOM	14337	O4*	G	A	688	220.686	106.721	-61.290	1.00	74.76	A16S
ATOM	14338	C1*	G	A	688	219.448	106.035	-61.252	1.00	74.76	A16S
ATOM	14339	N9	G	A	688	219.577	104.951	-60.290	1.00	71.52	A16S
ATOM	14340	C4	G	A	688	218.661	103.960	-60.027	1.00	71.52	A16S
ATOM	14341	N3	G	A	688	217.472	103.792	-60.643	1.00	71.52	A16S
ATOM	14342	C2	G	A	688	216.822	102.728	-60.186	1.00	71.52	A16S
ATOM	14343	N2	G	A	688	215.639	102.384	-60.718	1.00	71.52	A16S
ATOM	14344	N1	G	A	688	217.289	101.919	-59.179	1.00	71.52	A16S
ATOM	14345	C6	G	A	688	218.503	102.091	-58.512	1.00	71.52	A16S
ATOM	14346	O6	G	A	688	218.826	101.317	-57.589	1.00	71.52	A16S
ATOM	14347	C5	G	A	688	219.222	103.203	-59.021	1.00	71.52	A16S
ATOM	14348	N7	G	A	688	220.470	103.696	-58.670	1.00	71.52	A16S
ATOM	14349	C8	G	A	688	220.638	104.730	-59.447	1.00	71.52	A16S
ATOM	14350	C2*	G	A	688	218.398	107.037	-60.789	1.00	74.76	A16S
ATOM	14351	O2*	G	A	688	217.867	107.689	-61.926	1.00	74.76	A16S
ATOM	14352	C3*	G	A	688	219.244	107.993	-59.967	1.00	74.76	A16S
ATOM	14353	O3*	G	A	688	218.631	109.257	-59.820	1.00	74.76	A16S
ATOM	14354	P	C	A	689	217.730	109.530	-58.528	1.00	74.13	A16S
ATOM	14355	O1P	C	A	689	217.506	110.993	-58.430	1.00	58.22	A16S
ATOM	14356	O2P	C	A	689	218.366	108.800	-57.395	1.00	58.22	A16S
ATOM	14357	O5*	C	A	689	216.352	108.814	-58.872	1.00	74.13	A16S
ATOM	14358	C5*	C	A	689	215.691	109.067	-60.121	1.00	74.13	A16S
ATOM	14359	C4*	C	A	689	214.590	108.060	-60.337	1.00	74.13	A16S
ATOM	14360	O4*	C	A	689	215.167	106.734	-60.419	1.00	74.13	A16S
ATOM	14361	C1*	C	A	689	214.283	105.790	-59.839	1.00	74.13	A16S
ATOM	14362	N1	C	A	689	214.956	105.135	-58.709	1.00	58.22	A16S
ATOM	14363	C6	C	A	689	216.112	105.643	-58.188	1.00	58.22	A16S
ATOM	14364	C2	C	A	689	214.383	103.968	-58.163	1.00	58.22	A16S
ATOM	14365	O2	C	A	689	213.338	103.515	-58.667	1.00	58.22	A16S
ATOM	14366	N3	C	A	689	214.984	103.365	-57.110	1.00	58.22	A16S
ATOM	14367	C4	C	A	689	216.114	103.875	-56.609	1.00	58.22	A16S
ATOM	14368	N4	C	A	689	216.676	103.255	-55.572	1.00	58.22	A16S
ATOM	14369	C5	C	A	689	216.720	105.050	-57.150	1.00	58.22	A16S
ATOM	14370	C2*	C	A	689	213.035	106.539	-59.382	1.00	74.13	A16S
ATOM	14371	O2*	C	A	689	212.035	106.430	-60.377	1.00	74.13	A16S
ATOM	14372	C3*	C	A	689	213.577	107.949	-59.208	1.00	74.13	A16S
ATOM	14373	O3*	C	A	689	212.561	108.935	-59.274	1.00	74.13	A16S
ATOM	14374	P	G	A	690	211.986	109.557	-57.913	1.00	67.26	A16S
ATOM	14375	O1P	G	A	690	210.897	110.475	-58.316	1.00	70.20	A16S
ATOM	14376	O2P	G	A	690	213.112	110.076	-57.082	1.00	70.20	A16S
ATOM	14377	O5*	G	A	690	211.364	108.301	-57.160	1.00	67.26	A16S
ATOM	14378	C5*	G	A	690	210.295	107.543	-57.743	1.00	67.26	A16S
ATOM	14379	C4*	G	A	690	210.022	106.318	-56.906	1.00	67.26	A16S
ATOM	14380	O4*	G	A	690	211.219	105.510	-56.873	1.00	67.26	A16S
ATOM	14381	C1*	G	A	690	211.384	104.942	-55.592	1.00	67.26	A16S
ATOM	14382	N9	G	A	690	212.678	105.385	-55.087	1.00	70.20	A16S
ATOM	14383	C4	G	A	690	213.515	104.698	-54.239	1.00	70.20	A16S
ATOM	14384	N3	G	A	690	213.273	103.490	-53.682	1.00	70.20	A16S
ATOM	14385	C2	G	A	690	214.278	103.094	-52.908	1.00	70.20	A16S
ATOM	14386	N2	G	A	690	214.217	101.917	-52.252	1.00	70.20	A16S
ATOM	14387	N1	G	A	690	215.422	103.820	-52.713	1.00	70.20	A16S
ATOM	14388	C6	G	A	690	215.690	105.055	-53.286	1.00	70.20	A16S
ATOM	14389	O6	G	A	690	216.765	105.613	-53.060	1.00	70.20	A16S
ATOM	14390	C5	G	A	690	214.625	105.500	-54.096	1.00	70.20	A16S
ATOM	14391	N7	G	A	690	214.483	106.675	-54.821	1.00	70.20	A16S
ATOM	14392	C8	G	A	690	213.316	106.565	-55.389	1.00	70.20	A16S



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ATOM	14393	C2*	G	A	690	210.177	105.337	-54.739	1.00	67.26	A16S
ATOM	14394	O2*	G	A	690	209.232	104.288	-54.770	1.00	67.26	A16S
ATOM	14395	C3*	G	A	690	209.682	106.591	-55.450	1.00	67.26	A16S
ATOM	14396	O3*	G	A	690	208.271	106.777	-55.309	1.00	67.26	A16S
ATOM	14397	P	G	A	691	207.707	108.010	-54.444	1.00	69.75	A16S
ATOM	14398	O1P	G	A	691	206.235	108.008	-54.639	1.00	75.76	A16S
ATOM	14399	O2P	G	A	691	208.488	109.255	-54.741	1.00	75.76	A16S
ATOM	14400	O5*	G	A	691	207.999	107.529	-52.964	1.00	69.75	A16S
ATOM	14401	C5*	G	A	691	207.365	106.353	-52.500	1.00	69.75	A16S
ATOM	14402	C4*	G	A	691	208.167	105.727	-51.412	1.00	69.75	A16S
ATOM	14403	O4*	G	A	691	209.440	105.285	-51.930	1.00	69.75	A16S
ATOM	14404	C1*	G	A	691	210.422	105.376	-50.907	1.00	69.75	A16S
ATOM	14405	N9	G	A	691	211.447	106.326	-51.325	1.00	75.76	A16S
ATOM	14406	C4	G	A	691	212.783	106.301	-50.986	1.00	75.76	A16S
ATOM	14407	N3	G	A	691	213.403	105.337	-50.266	1.00	75.76	A16S
ATOM	14408	C2	G	A	691	214.681	105.601	-50.091	1.00	75.76	A16S
ATOM	14409	N2	G	A	691	215.460	104.718	-49.439	1.00	75.76	A16S
ATOM	14410	N1	G	A	691	215.290	106.750	-50.553	1.00	75.76	A16S
ATOM	14411	C6	G	A	691	214.654	107.768	-51.276	1.00	75.76	A16S
ATOM	14412	O6	G	A	691	215.273	108.800	-51.605	1.00	75.76	A16S
ATOM	14413	C5	G	A	691	213.311	107.462	-51.510	1.00	75.76	A16S
ATOM	14414	N7	G	A	691	212.349	108.172	-52.211	1.00	75.76	A16S
ATOM	14415	C8	G	A	691	211.262	107.458	-52.084	1.00	75.76	A16S
ATOM	14416	C2*	G	A	691	209.724	105.897	-49.651	1.00	69.75	A16S
ATOM	14417	O2*	G	A	691	209.347	104.796	-48.845	1.00	69.75	A16S
ATOM	14418	C3*	G	A	691	208.538	106.633	-50.260	1.00	69.75	A16S
ATOM	14419	O3*	G	A	691	207.457	106.795	-49.372	1.00	69.75	A16S
ATOM	14420	P	U	A	692	207.247	108.202	-48.639	1.00	75.48	A16S
ATOM	14421	O1P	U	A	692	205.843	108.217	-48.179	1.00	84.73	A16S
ATOM	14422	O2P	U	A	692	207.757	109.304	-49.488	1.00	84.73	A16S
ATOM	14423	O5*	U	A	692	208.154	108.070	-47.349	1.00	75.48	A16S
ATOM	14424	C5*	U	A	692	207.853	107.049	-46.403	1.00	75.48	A16S
ATOM	14425	C4*	U	A	692	208.808	107.111	-45.257	1.00	75.48	A16S
ATOM	14426	O4*	U	A	692	210.091	106.575	-45.650	1.00	75.48	A16S
ATOM	14427	C1*	U	A	692	211.118	107.324	-45.037	1.00	75.48	A16S
ATOM	14428	N1	U	A	692	211.924	107.930	-46.109	1.00	84.73	A16S
ATOM	14429	C6	U	A	692	211.357	108.272	-47.320	1.00	84.73	A16S
ATOM	14430	C2	U	A	692	213.266	108.155	-45.868	1.00	84.73	A16S
ATOM	14431	O2	U	A	692	213.813	107.847	-44.827	1.00	84.73	A16S
ATOM	14432	N3	U	A	692	213.948	108.755	-46.897	1.00	84.73	A16S
ATOM	14433	C4	U	A	692	213.441	109.138	-48.123	1.00	84.73	A16S
ATOM	14434	O4	U	A	692	214.171	109.745	-48.923	1.00	84.73	A16S
ATOM	14435	C5	U	A	692	212.050	108.848	-48.306	1.00	84.73	A16S
ATOM	14436	C2*	U	A	692	210.448	108.338	-44.097	1.00	75.48	A16S
ATOM	14437	O2*	U	A	692	210.313	107.760	-42.811	1.00	75.48	A16S
ATOM	14438	C3*	U	A	692	209.084	108.509	-44.752	1.00	75.48	A16S
ATOM	14439	O3*	U	A	692	208.046	108.898	-43.857	1.00	75.48	A16S
ATOM	14440	P	G	A	693	207.916	110.432	-43.396	1.00	84.56	A16S
ATOM	14441	O1P	G	A	693	206.503	110.628	-42.964	1.00	60.37	A16S
ATOM	14442	O2P	G	A	693	208.475	111.311	-44.462	1.00	60.37	A16S
ATOM	14443	O5*	G	A	693	208.878	110.480	-42.121	1.00	84.56	A16S
ATOM	14444	C5*	G	A	693	209.157	111.715	-41.448	1.00	84.56	A16S
ATOM	14445	C4*	G	A	693	210.466	111.625	-40.692	1.00	84.56	A16S
ATOM	14446	O4*	G	A	693	210.356	110.711	-39.575	1.00	84.56	A16S
ATOM	14447	C1*	G	A	693	211.610	110.100	-39.336	1.00	84.56	A16S
ATOM	14448	N9	G	A	693	211.428	108.654	-39.329	1.00	60.37	A16S
ATOM	14449	C4	G	A	693	212.322	107.723	-38.879	1.00	60.37	A16S
ATOM	14450	N3	G	A	693	213.549	107.978	-38.397	1.00	60.37	A16S
ATOM	14451	C2	G	A	693	214.172	106.867	-38.046	1.00	60.37	A16S
ATOM	14452	N2	G	A	693	215.422	106.919	-37.580	1.00	60.37	A16S
ATOM	14453	N1	G	A	693	213.621	105.615	-38.136	1.00	60.37	A16S
ATOM	14454	C6	G	A	693	212.352	105.337	-38.623	1.00	60.37	A16S
ATOM	14455	O6	G	A	693	211.940	104.170	-38.653	1.00	60.37	A16S
ATOM	14456	C5	G	A	693	211.689	106.504	-39.026	1.00	60.37	A16S
ATOM	14457	N7	G	A	693	210.431	106.664	-39.580	1.00	60.37	A16S
ATOM	14458	C8	G	A	693	210.320	107.955	-39.746	1.00	60.37	A16S
ATOM	14459	C2*	G	A	693	212.597	110.614	-40.381	1.00	84.56	A16S
ATOM	14460	O2*	G	A	693	213.354	111.639	-39.781	1.00	84.56	A16S
ATOM	14461	C3*	G	A	693	211.667	111.134	-41.473	1.00	84.56	A16S
ATOM	14462	O3*	G	A	693	212.241	112.218	-42.185	1.00	84.56	A16S
ATOM	14463	P	A	A	694	213.147	111.929	-43.481	1.00	75.22	A16S
ATOM	14464	O1P	A	A	694	213.280	113.223	-44.234	1.00	65.05	A16S
ATOM	14465	O2P	A	A	694	212.602	110.723	-44.180	1.00	65.05	A16S
ATOM	14466	O5*	A	A	694	214.563	111.553	-42.856	1.00	75.22	A16S
ATOM	14467	C5*	A	A	694	215.400	110.617	-43.514	1.00	75.22	A16S
ATOM	14468	C4*	A	A	694	216.210	109.831	-42.523	1.00	75.22	A16S
ATOM	14469	O4*	A	A	694	215.377	109.292	-41.470	1.00	75.22	A16S



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ATOM	14470	C1*	A	A	694	215.762	107.955	-41.185	1.00	75.22	A16S
ATOM	14471	N9	A	A	694	214.624	107.076	-41.490	1.00	65.05	A16S
ATOM	14472	C4	A	A	694	214.584	105.710	-41.338	1.00	65.05	A16S
ATOM	14473	N3	A	A	694	215.573	104.912	-40.909	1.00	65.05	A16S
ATOM	14474	C2	A	A	694	215.160	103.647	-40.862	1.00	65.05	A16S
ATOM	14475	N1	A	A	694	213.964	103.132	-41.173	1.00	65.05	A16S
ATOM	14476	C6	A	A	694	212.995	103.962	-41.606	1.00	65.05	A16S
ATOM	14477	N6	A	A	694	211.801	103.446	-41.906	1.00	65.05	A16S
ATOM	14478	C5	A	A	694	213.305	105.324	-41.705	1.00	65.05	A16S
ATOM	14479	N7	A	A	694	212.556	106.420	-42.104	1.00	65.05	A16S
ATOM	14480	C8	A	A	694	213.380	107.433	-41.964	1.00	65.05	A16S
ATOM	14481	C2*	A	A	694	216.995	107.644	-42.030	1.00	75.22	A16S
ATOM	14482	O2*	A	A	694	218.139	107.903	-41.255	1.00	75.22	A16S
ATOM	14483	C3*	A	A	694	216.811	108.616	-43.183	1.00	75.22	A16S
ATOM	14484	O3*	A	A	694	217.968	108.997	-43.881	1.00	75.22	A16S
ATOM	14485	P	A	A	695	218.048	108.724	-45.459	1.00	71.52	A16S
ATOM	14486	O1P	A	A	695	219.102	109.631	-46.002	1.00	59.65	A16S
ATOM	14487	O2P	A	A	695	216.681	108.788	-46.050	1.00	59.65	A16S
ATOM	14488	O5*	A	A	695	218.576	107.219	-45.467	1.00	71.52	A16S
ATOM	14489	C5*	A	A	695	217.879	106.169	-46.145	1.00	71.52	A16S
ATOM	14490	C4*	A	A	695	217.851	104.937	-45.283	1.00	71.52	A16S
ATOM	14491	O4*	A	A	695	216.709	105.028	-44.401	1.00	71.52	A16S
ATOM	14492	C1*	A	A	695	216.093	103.753	-44.268	1.00	71.52	A16S
ATOM	14493	N9	A	A	695	214.713	103.845	-44.763	1.00	59.65	A16S
ATOM	14494	C4	A	A	695	213.761	102.850	-44.694	1.00	59.65	A16S
ATOM	14495	N3	A	A	695	213.901	101.611	-44.177	1.00	59.65	A16S
ATOM	14496	C2	A	A	695	212.766	100.925	-44.288	1.00	59.65	A16S
ATOM	14497	N1	A	A	695	211.597	101.305	-44.818	1.00	59.65	A16S
ATOM	14498	C6	A	A	695	211.492	102.556	-45.329	1.00	59.65	A16S
ATOM	14499	N6	A	A	695	210.331	102.939	-45.859	1.00	59.65	A16S
ATOM	14500	C5	A	A	695	212.618	103.383	-45.272	1.00	59.65	A16S
ATOM	14501	N7	A	A	695	212.840	104.686	-45.700	1.00	59.65	A16S
ATOM	14502	C8	A	A	695	214.092	104.913	-45.379	1.00	59.65	A16S
ATOM	14503	C2*	A	A	695	216.937	102.741	-45.037	1.00	71.52	A16S
ATOM	14504	O2*	A	A	695	217.759	102.045	-44.116	1.00	71.52	A16S
ATOM	14505	C3*	A	A	695	217.638	103.647	-46.052	1.00	71.52	A16S
ATOM	14506	O3*	A	A	695	218.876	103.158	-46.567	1.00	71.52	A16S
ATOM	14507	P	A	A	696	218.975	102.701	-48.115	1.00	72.10	A16S
ATOM	14508	O1P	A	A	696	220.417	102.597	-48.429	1.00	58.01	A16S
ATOM	14509	O2P	A	A	696	218.104	103.567	-48.990	1.00	58.01	A16S
ATOM	14510	O5*	A	A	696	218.385	101.217	-48.086	1.00	72.10	A16S
ATOM	14511	C5*	A	A	696	219.004	100.200	-47.269	1.00	72.10	A16S
ATOM	14512	C4*	A	A	696	218.000	99.133	-46.889	1.00	72.10	A16S
ATOM	14513	O4*	A	A	696	216.919	99.754	-46.150	1.00	72.10	A16S
ATOM	14514	C1*	A	A	696	215.681	99.157	-46.508	1.00	72.10	A16S
ATOM	14515	N9	A	A	696	214.888	100.168	-47.220	1.00	58.01	A16S
ATOM	14516	C4	A	A	696	213.545	100.104	-47.486	1.00	58.01	A16S
ATOM	14517	N3	A	A	696	212.705	99.111	-47.164	1.00	58.01	A16S
ATOM	14518	C2	A	A	696	211.473	99.403	-47.557	1.00	58.01	A16S
ATOM	14519	N1	A	A	696	211.020	100.496	-48.190	1.00	58.01	A16S
ATOM	14520	C6	A	A	696	211.896	101.477	-48.500	1.00	58.01	A16S
ATOM	14521	N6	A	A	696	211.444	102.569	-49.122	1.00	58.01	A16S
ATOM	14522	C5	A	A	696	213.232	101.287	-48.141	1.00	58.01	A16S
ATOM	14523	N7	A	A	696	214.359	102.078	-48.302	1.00	58.01	A16S
ATOM	14524	C8	A	A	696	215.315	101.374	-47.745	1.00	58.01	A16S
ATOM	14525	C2*	A	A	696	216.004	97.949	-47.382	1.00	72.10	A16S
ATOM	14526	O2*	A	A	696	216.191	96.806	-46.564	1.00	72.10	A16S
ATOM	14527	C3*	A	A	696	217.302	98.405	-48.028	1.00	72.10	A16S
ATOM	14528	O3*	A	A	696	218.055	97.325	-48.538	1.00	72.10	A16S
ATOM	14529	P	U	A	697	218.031	97.029	-50.120	1.00	79.06	A16S
ATOM	14530	O1P	U	A	697	219.210	96.159	-50.358	1.00	59.92	A16S
ATOM	14531	O2P	U	A	697	217.883	98.311	-50.888	1.00	59.92	A16S
ATOM	14532	O5*	U	A	697	216.717	96.150	-50.326	1.00	79.06	A16S
ATOM	14533	C5*	U	A	697	216.546	94.930	-49.597	1.00	79.06	A16S
ATOM	14534	C4*	U	A	697	215.087	94.565	-49.511	1.00	79.06	A16S
ATOM	14535	O4*	U	A	697	214.339	95.633	-48.872	1.00	79.06	A16S
ATOM	14536	C1*	U	A	697	213.015	95.656	-49.377	1.00	79.06	A16S
ATOM	14537	N1	U	A	697	212.733	96.972	-49.977	1.00	59.92	A16S
ATOM	14538	C6	U	A	697	213.728	97.811	-50.427	1.00	59.92	A16S
ATOM	14539	C2	U	A	697	211.402	97.328	-50.095	1.00	59.92	A16S
ATOM	14540	O2	U	A	697	210.489	96.634	-49.672	1.00	59.92	A16S
ATOM	14541	N3	U	A	697	211.171	98.528	-50.718	1.00	59.92	A16S
ATOM	14542	C4	U	A	697	212.113	99.404	-51.209	1.00	59.92	A16S
ATOM	14543	O4	U	A	697	211.737	100.424	-51.805	1.00	59.92	A16S
ATOM	14544	C5	U	A	697	213.473	98.984	-51.018	1.00	59.92	A16S
ATOM	14545	C2*	U	A	697	212.906	94.545	-50.417	1.00	79.06	A16S
ATOM	14546	O2*	U	A	697	212.362	93.378	-49.828	1.00	79.06	A16S



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ATOM	14547	C3*	U	A	697	214.359	94.368	-50.822	1.00	79.06	A16S
ATOM	14548	O3*	U	A	697	214.578	93.096	-51.378	1.00	79.06	A16S
ATOM	14549	P	G	A	698	214.857	92.975	-52.954	1.00	78.40	A16S
ATOM	14550	O1P	G	A	698	214.595	91.547	-53.299	1.00	55.99	A16S
ATOM	14551	O2P	G	A	698	216.181	93.591	-53.258	1.00	55.99	A16S
ATOM	14552	O5*	G	A	698	213.757	93.897	-53.648	1.00	78.40	A16S
ATOM	14553	C5*	G	A	698	212.382	93.506	-53.676	1.00	78.40	A16S
ATOM	14554	C4*	G	A	698	211.570	94.541	-54.399	1.00	78.40	A16S
ATOM	14555	O4*	G	A	698	211.670	95.808	-53.705	1.00	78.40	A16S
ATOM	14556	C1*	G	A	698	211.694	96.867	-54.644	1.00	78.40	A16S
ATOM	14557	N9	G	A	698	212.966	97.564	-54.501	1.00	55.99	A16S
ATOM	14558	C4	G	A	698	213.305	98.784	-55.039	1.00	55.99	A16S
ATOM	14559	N3	G	A	698	212.519	99.562	-55.814	1.00	55.99	A16S
ATOM	14560	C2	G	A	698	213.136	100.680	-56.181	1.00	55.99	A16S
ATOM	14561	N2	G	A	698	212.511	101.572	-56.958	1.00	55.99	A16S
ATOM	14562	N1	G	A	698	214.413	101.005	-55.813	1.00	55.99	A16S
ATOM	14563	C6	G	A	698	215.239	100.216	-55.015	1.00	55.99	A16S
ATOM	14564	O6	G	A	698	216.387	100.601	-54.739	1.00	55.99	A16S
ATOM	14565	C5	G	A	698	214.595	99.017	-54.622	1.00	55.99	A16S
ATOM	14566	N7	G	A	698	215.061	97.965	-53.850	1.00	55.99	A16S
ATOM	14567	C8	G	A	698	214.063	97.128	-53.804	1.00	55.99	A16S
ATOM	14568	C2*	G	A	698	211.532	96.258	-56.036	1.00	78.40	A16S
ATOM	14569	O2*	G	A	698	210.169	96.334	-56.404	1.00	78.40	A16S
ATOM	14570	C3*	G	A	698	212.038	94.839	-55.808	1.00	78.40	A16S
ATOM	14571	O3*	G	A	698	211.509	93.891	-56.721	1.00	78.40	A16S
ATOM	14572	P	C	A	699	212.435	93.341	-57.920	1.00	74.16	A16S
ATOM	14573	O1P	C	A	699	211.709	92.189	-58.551	1.00	65.96	A16S
ATOM	14574	O2P	C	A	699	213.815	93.139	-57.365	1.00	65.96	A16S
ATOM	14575	O5*	C	A	699	212.454	94.553	-58.957	1.00	74.16	A16S
ATOM	14576	C5*	C	A	699	211.247	94.951	-59.602	1.00	74.16	A16S
ATOM	14577	C4*	C	A	699	211.406	96.298	-60.248	1.00	74.16	A16S
ATOM	14578	O4*	C	A	699	211.568	97.335	-59.248	1.00	74.16	A16S
ATOM	14579	C1*	C	A	699	212.335	98.401	-59.788	1.00	74.16	A16S
ATOM	14580	N1	C	A	699	213.577	98.546	-59.016	1.00	65.96	A16S
ATOM	14581	C6	C	A	699	213.998	97.564	-58.162	1.00	65.96	A16S
ATOM	14582	C2	C	A	699	214.365	99.700	-59.217	1.00	65.96	A16S
ATOM	14583	O2	C	A	699	213.925	100.621	-59.941	1.00	65.96	A16S
ATOM	14584	N3	C	A	699	215.574	99.780	-58.619	1.00	65.96	A16S
ATOM	14585	C4	C	A	699	215.997	98.784	-57.835	1.00	65.96	A16S
ATOM	14586	N4	C	A	699	217.223	98.876	-57.310	1.00	65.96	A16S
ATOM	14587	C5	C	A	699	215.188	97.639	-57.562	1.00	65.96	A16S
ATOM	14588	C2*	C	A	699	212.712	98.009	-61.215	1.00	74.16	A16S
ATOM	14589	O2*	C	A	699	211.822	98.632	-62.121	1.00	74.16	A16S
ATOM	14590	C3*	C	A	699	212.604	96.489	-61.151	1.00	74.16	A16S
ATOM	14591	O3*	C	A	699	212.442	95.875	-62.418	1.00	74.16	A16S
ATOM	14592	P	G	A	700	213.723	95.234	-63.152	1.00	79.56	A16S
ATOM	14593	O1P	G	A	700	213.200	94.778	-64.465	1.00	69.24	A16S
ATOM	14594	O2P	G	A	700	214.416	94.259	-62.256	1.00	69.24	A16S
ATOM	14595	O5*	G	A	700	214.647	96.501	-63.405	1.00	79.56	A16S
ATOM	14596	C5*	G	A	700	214.139	97.561	-64.203	1.00	79.56	A16S
ATOM	14597	C4*	G	A	700	215.190	98.596	-64.449	1.00	79.56	A16S
ATOM	14598	O4*	G	A	700	215.368	99.449	-63.292	1.00	79.56	A16S
ATOM	14599	C1*	G	A	700	216.716	99.893	-63.234	1.00	79.56	A16S
ATOM	14600	N9	G	A	700	217.321	99.348	-62.021	1.00	69.24	A16S
ATOM	14601	C4	G	A	700	218.469	99.795	-61.405	1.00	69.24	A16S
ATOM	14602	N3	G	A	700	219.231	100.839	-61.800	1.00	69.24	A16S
ATOM	14603	C2	G	A	700	220.289	101.003	-61.022	1.00	69.24	A16S
ATOM	14604	N2	G	A	700	221.158	101.992	-61.267	1.00	69.24	A16S
ATOM	14605	N1	G	A	700	220.575	100.212	-59.945	1.00	69.24	A16S
ATOM	14606	C6	G	A	700	219.805	99.133	-59.517	1.00	69.24	A16S
ATOM	14607	O6	G	A	700	220.154	98.480	-58.522	1.00	69.24	A16S
ATOM	14608	C5	G	A	700	218.669	98.940	-60.343	1.00	69.24	A16S
ATOM	14609	N7	G	A	700	217.663	97.982	-60.281	1.00	69.24	A16S
ATOM	14610	C8	G	A	700	216.882	98.267	-61.287	1.00	69.24	A16S
ATOM	14611	C2*	G	A	700	217.420	99.338	-64.476	1.00	79.56	A16S
ATOM	14612	O2*	G	A	700	217.335	100.284	-65.527	1.00	79.56	A16S
ATOM	14613	C3*	G	A	700	216.582	98.097	-64.762	1.00	79.56	A16S
ATOM	14614	O3*	G	A	700	216.690	97.631	-66.090	1.00	79.56	A16S
ATOM	14615	P	C	A	701	217.610	96.357	-66.401	1.00	82.11	A16S
ATOM	14616	O1P	C	A	701	216.975	95.690	-67.570	1.00	84.35	A16S
ATOM	14617	O2P	C	A	701	217.822	95.585	-65.147	1.00	84.35	A16S
ATOM	14618	O5*	C	A	701	218.993	97.027	-66.844	1.00	82.11	A16S
ATOM	14619	C5*	C	A	701	219.209	97.421	-68.221	1.00	82.11	A16S
ATOM	14620	C4*	C	A	701	220.689	97.489	-68.556	1.00	82.11	A16S
ATOM	14621	O4*	C	A	701	221.206	98.814	-68.325	1.00	82.11	A16S
ATOM	14622	C1*	C	A	701	222.610	98.729	-68.272	1.00	82.11	A16S
ATOM	14623	N1	C	A	701	223.154	99.840	-67.468	1.00	84.35	A16S



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ATOM	14624	C6	C	A	701	222.539	100.269	-66.327	1.00	84.35	A16S
ATOM	14625	C2	C	A	701	224.337	100.462	-67.909	1.00	84.35	A16S
ATOM	14626	O2	C	A	701	224.879	100.058	-68.947	1.00	84.35	A16S
ATOM	14627	N3	C	A	701	224.860	101.482	-67.197	1.00	84.35	A16S
ATOM	14628	C4	C	A	701	224.258	101.890	-66.083	1.00	84.35	A16S
ATOM	14629	N4	C	A	701	224.824	102.896	-65.407	1.00	84.35	A16S
ATOM	14630	C5	C	A	701	223.050	101.281	-65.609	1.00	84.35	A16S
ATOM	14631	C2*	C	A	701	223.002	97.306	-67.848	1.00	82.11	A16S
ATOM	14632	O2*	C	A	701	223.955	96.789	-68.751	1.00	82.11	A16S
ATOM	14633	C3*	C	A	701	221.651	96.571	-67.809	1.00	82.11	A16S
ATOM	14634	O3*	C	A	701	221.638	95.190	-68.273	1.00	82.11	A16S
ATOM	14635	P	A	A	702	221.984	94.810	-69.818	1.00	75.42	A16S
ATOM	14636	O1P	A	A	702	222.888	93.625	-69.814	1.00	96.51	A16S
ATOM	14637	O2P	A	A	702	222.368	96.024	-70.600	1.00	96.51	A16S
ATOM	14638	O5*	A	A	702	220.587	94.318	-70.400	1.00	75.42	A16S
ATOM	14639	C5*	A	A	702	220.216	94.651	-71.739	1.00	75.42	A16S
ATOM	14640	C4*	A	A	702	218.761	94.343	-71.988	1.00	75.42	A16S
ATOM	14641	O4*	A	A	702	218.531	92.914	-71.929	1.00	75.42	A16S
ATOM	14642	C1*	A	A	702	217.408	92.643	-71.131	1.00	75.42	A16S
ATOM	14643	N9	A	A	702	217.654	91.376	-70.451	1.00	96.51	A16S
ATOM	14644	C4	A	A	702	216.878	90.251	-70.567	1.00	96.51	A16S
ATOM	14645	N3	A	A	702	215.768	90.102	-71.309	1.00	96.51	A16S
ATOM	14646	C2	A	A	702	215.275	88.871	-71.175	1.00	96.51	A16S
ATOM	14647	N1	A	A	702	215.731	87.851	-70.437	1.00	96.51	A16S
ATOM	14648	C6	A	A	702	216.851	88.035	-69.701	1.00	96.51	A16S
ATOM	14649	N6	A	A	702	217.298	87.022	-68.959	1.00	96.51	A16S
ATOM	14650	C5	A	A	702	217.475	89.295	-69.764	1.00	96.51	A16S
ATOM	14651	N7	A	A	702	218.616	89.805	-69.162	1.00	96.51	A16S
ATOM	14652	C8	A	A	702	218.675	91.040	-69.597	1.00	96.51	A16S
ATOM	14653	C2*	A	A	702	217.221	93.849	-70.217	1.00	75.42	A16S
ATOM	14654	O2*	A	A	702	215.849	93.996	-69.913	1.00	75.42	A16S
ATOM	14655	C3*	A	A	702	217.712	94.993	-71.102	1.00	75.42	A16S
ATOM	14656	O3*	A	A	702	216.663	95.405	-71.952	1.00	75.42	A16S
ATOM	14657	P	G	A	703	215.987	96.842	-71.742	1.00	85.63	A16S
ATOM	14658	O1P	G	A	703	214.619	96.534	-71.221	1.00	88.89	A16S
ATOM	14659	O2P	G	A	703	216.148	97.618	-73.002	1.00	88.89	A16S
ATOM	14660	O5*	G	A	703	216.879	97.566	-70.630	1.00	85.63	A16S
ATOM	14661	C5*	G	A	703	216.287	98.166	-69.459	1.00	85.63	A16S
ATOM	14662	C4*	G	A	703	216.643	99.636	-69.377	1.00	85.63	A16S
ATOM	14663	O4*	G	A	703	218.090	99.774	-69.324	1.00	85.63	A16S
ATOM	14664	C1*	G	A	703	218.537	100.633	-70.355	1.00	85.63	A16S
ATOM	14665	N9	G	A	703	219.795	100.093	-70.878	1.00	88.89	A16S
ATOM	14666	C4	G	A	703	221.050	100.676	-70.833	1.00	88.89	A16S
ATOM	14667	N3	G	A	703	221.359	101.866	-70.277	1.00	88.89	A16S
ATOM	14668	C2	G	A	703	222.654	102.145	-70.385	1.00	88.89	A16S
ATOM	14669	N2	G	A	703	223.146	103.283	-69.867	1.00	88.89	A16S
ATOM	14670	N1	G	A	703	223.567	101.329	-71.003	1.00	88.89	A16S
ATOM	14671	C6	G	A	703	223.279	100.100	-71.584	1.00	88.89	A16S
ATOM	14672	O6	G	A	703	224.193	99.437	-72.117	1.00	88.89	A16S
ATOM	14673	C5	G	A	703	221.893	99.780	-71.463	1.00	88.89	A16S
ATOM	14674	N7	G	A	703	221.194	98.661	-71.884	1.00	88.89	A16S
ATOM	14675	C8	G	A	703	219.960	98.889	-71.521	1.00	88.89	A16S
ATOM	14676	C2*	G	A	703	217.406	100.679	-71.390	1.00	85.63	A16S
ATOM	14677	O2*	G	A	703	217.379	101.911	-72.080	1.00	85.63	A16S
ATOM	14678	C3*	G	A	703	216.158	100.508	-70.531	1.00	85.63	A16S
ATOM	14679	O3*	G	A	703	215.727	101.793	-70.065	1.00	85.63	A16S
ATOM	14680	P	A	A	704	214.314	102.401	-70.561	1.00	73.62	A16S
ATOM	14681	O1P	A	A	704	213.689	101.393	-71.439	1.00	73.62	A16S
ATOM	14682	O2P	A	A	704	214.478	103.795	-71.046	1.00	73.62	A16S
ATOM	14683	O5*	A	A	704	213.441	102.462	-69.234	1.00	73.62	A16S
ATOM	14684	C5*	A	A	704	212.838	101.274	-68.706	1.00	73.62	A16S
ATOM	14685	C4*	A	A	704	212.905	101.268	-67.197	1.00	73.62	A16S
ATOM	14686	O4*	A	A	704	214.290	101.188	-66.757	1.00	73.62	A16S
ATOM	14687	C1*	A	A	704	214.441	101.894	-65.537	1.00	73.62	A16S
ATOM	14688	N9	A	A	704	215.355	103.017	-65.753	1.00	73.62	A16S
ATOM	14689	C4	A	A	704	215.752	103.889	-64.771	1.00	73.62	A16S
ATOM	14690	N3	A	A	704	215.395	103.864	-63.481	1.00	73.62	A16S
ATOM	14691	C2	A	A	704	215.958	104.865	-62.826	1.00	73.62	A16S
ATOM	14692	N1	A	A	704	216.780	105.814	-63.273	1.00	73.62	A16S
ATOM	14693	C6	A	A	704	217.125	105.812	-64.571	1.00	73.62	A16S
ATOM	14694	N6	A	A	704	217.954	106.761	-64.999	1.00	73.62	A16S
ATOM	14695	C5	A	A	704	216.586	104.802	-65.385	1.00	73.62	A16S
ATOM	14696	N7	A	A	704	216.720	104.512	-66.735	1.00	73.62	A16S
ATOM	14697	C8	A	A	704	215.973	103.444	-66.902	1.00	73.62	A16S
ATOM	14698	C2*	A	A	704	213.058	102.400	-65.128	1.00	73.62	A16S
ATOM	14699	O2*	A	A	704	212.473	101.468	-64.230	1.00	73.62	A16S
ATOM	14700	C3*	A	A	704	212.364	102.493	-66.483	1.00	73.62	A16S



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ATOM	14701	O3*	A	A 704	210.947	102.507	-66.408	1.00	73.68	A16S
ATOM	14702	P	U	A 705	210.146	103.805	-66.929	1.00	77.05	A16S
ATOM	14703	O1P	U	A 705	208.697	103.535	-66.688	1.00	94.74	A16S
ATOM	14704	O2P	U	A 705	210.608	104.129	-68.303	1.00	94.74	A16S
ATOM	14705	O5*	U	A 705	210.636	104.981	-65.958	1.00	77.05	A16S
ATOM	14706	C5*	U	A 705	210.338	104.932	-64.541	1.00	77.05	A16S
ATOM	14707	C4*	U	A 705	211.012	106.064	-63.783	1.00	77.05	A16S
ATOM	14708	O4*	U	A 705	212.450	105.921	-63.828	1.00	77.05	A16S
ATOM	14709	C1*	U	A 705	213.051	107.194	-63.714	1.00	77.05	A16S
ATOM	14710	N1	U	A 705	213.926	107.423	-64.871	1.00	94.74	A16S
ATOM	14711	C6	U	A 705	213.766	106.738	-66.052	1.00	94.74	A16S
ATOM	14712	C2	U	A 705	214.901	108.387	-64.741	1.00	94.74	A16S
ATOM	14713	O2	U	A 705	215.121	108.963	-63.696	1.00	94.74	A16S
ATOM	14714	N3	U	A 705	215.619	108.645	-65.877	1.00	94.74	A16S
ATOM	14715	C4	U	A 705	215.483	108.031	-67.100	1.00	94.74	A16S
ATOM	14716	O4	U	A 705	216.127	108.454	-68.063	1.00	94.74	A16S
ATOM	14717	C5	U	A 705	214.493	107.000	-67.140	1.00	94.74	A16S
ATOM	14718	C2*	U	A 705	211.938	108.244	-63.624	1.00	77.05	A16S
ATOM	14719	O2*	U	A 705	211.768	108.607	-62.271	1.00	77.05	A16S
ATOM	14720	C3*	U	A 705	210.734	107.503	-64.202	1.00	77.05	A16S
ATOM	14721	O3*	U	A 705	209.537	107.984	-63.577	1.00	77.05	A16S
ATOM	14722	P	A	A 706	208.450	108.833	-64.421	1.00	75.44	A16S
ATOM	14723	O1P	A	A 706	207.412	109.281	-63.451	1.00	82.18	A16S
ATOM	14724	O2P	A	A 706	208.046	108.030	-65.611	1.00	82.18	A16S
ATOM	14725	O5*	A	A 706	209.230	110.135	-64.901	1.00	75.44	A16S
ATOM	14726	C5*	A	A 706	209.447	111.240	-64.011	1.00	75.44	A16S
ATOM	14727	C4*	A	A 706	210.259	112.300	-64.708	1.00	75.44	A16S
ATOM	14728	O4*	A	A 706	211.593	111.790	-64.962	1.00	75.44	A16S
ATOM	14729	C1*	A	A 706	212.048	112.221	-66.241	1.00	75.44	A16S
ATOM	14730	N9	A	A 706	212.274	111.035	-67.073	1.00	82.18	A16S
ATOM	14731	C4	A	A 706	213.054	110.981	-68.199	1.00	82.18	A16S
ATOM	14732	N3	A	A 706	213.760	111.984	-68.751	1.00	82.18	A16S
ATOM	14733	C2	A	A 706	214.393	111.562	-69.837	1.00	82.18	A16S
ATOM	14734	N1	A	A 706	214.400	110.343	-70.389	1.00	82.18	A16S
ATOM	14735	C6	A	A 706	213.679	109.361	-69.804	1.00	82.18	A16S
ATOM	14736	N6	A	A 706	213.685	108.145	-70.348	1.00	82.18	A16S
ATOM	14737	C5	A	A 706	212.964	109.678	-68.654	1.00	82.18	A16S
ATOM	14738	N7	A	A 706	212.143	108.922	-67.834	1.00	82.18	A16S
ATOM	14739	C8	A	A 706	211.762	109.767	-66.912	1.00	82.18	A16S
ATOM	14740	C2*	A	A 706	210.978	113.133	-66.831	1.00	75.44	A16S
ATOM	14741	O2*	A	A 706	211.308	114.485	-66.600	1.00	75.44	A16S
ATOM	14742	C3*	A	A 706	209.742	112.648	-66.087	1.00	75.44	A16S
ATOM	14743	O3*	A	A 706	208.667	113.550	-66.080	1.00	75.44	A16S
ATOM	14744	P	C	A 707	207.517	113.346	-67.158	1.00	78.73	A16S
ATOM	14745	O1P	C	A 707	206.469	114.370	-66.960	1.00	75.28	A16S
ATOM	14746	O2P	C	A 707	207.163	111.898	-67.136	1.00	75.28	A16S
ATOM	14747	O5*	C	A 707	208.273	113.645	-68.519	1.00	78.73	A16S
ATOM	14748	C5*	C	A 707	208.783	114.953	-68.796	1.00	78.73	A16S
ATOM	14749	C4*	C	A 707	209.107	115.070	-70.260	1.00	78.73	A16S
ATOM	14750	O4*	C	A 707	210.298	114.294	-70.550	1.00	78.73	A16S
ATOM	14751	C1*	C	A 707	210.201	113.745	-71.853	1.00	78.73	A16S
ATOM	14752	N1	C	A 707	210.287	112.279	-71.756	1.00	75.28	A16S
ATOM	14753	C6	C	A 707	210.411	111.651	-70.548	1.00	75.28	A16S
ATOM	14754	C2	C	A 707	210.220	111.529	-72.935	1.00	75.28	A16S
ATOM	14755	O2	C	A 707	210.148	112.124	-74.020	1.00	75.28	A16S
ATOM	14756	N3	C	A 707	210.238	110.179	-72.866	1.00	75.28	A16S
ATOM	14757	C4	C	A 707	210.331	109.576	-71.681	1.00	75.28	A16S
ATOM	14758	N4	C	A 707	210.313	108.244	-71.662	1.00	75.28	A16S
ATOM	14759	C5	C	A 707	210.438	110.314	-70.464	1.00	75.28	A16S
ATOM	14760	C2*	C	A 707	208.873	114.207	-72.460	1.00	78.73	A16S
ATOM	14761	O2*	C	A 707	209.075	115.359	-73.259	1.00	78.73	A16S
ATOM	14762	C3*	C	A 707	208.057	114.511	-71.213	1.00	78.73	A16S
ATOM	14763	O3*	C	A 707	206.982	115.409	-71.465	1.00	78.73	A16S
ATOM	14764	P	C	A 708	205.569	114.828	-71.969	1.00	84.38	A16S
ATOM	14765	O1P	C	A 708	204.620	115.967	-71.965	1.00	78.28	A16S
ATOM	14766	O2P	C	A 708	205.240	113.590	-71.200	1.00	78.28	A16S
ATOM	14767	O5*	C	A 708	205.851	114.441	-73.489	1.00	84.38	A16S
ATOM	14768	C5*	C	A 708	206.267	115.454	-74.430	1.00	84.38	A16S
ATOM	14769	C4*	C	A 708	206.477	114.855	-75.798	1.00	84.38	A16S
ATOM	14770	O4*	C	A 708	207.605	113.947	-75.763	1.00	84.38	A16S
ATOM	14771	C1*	C	A 708	207.375	112.870	-76.659	1.00	84.38	A16S
ATOM	14772	N1	C	A 708	207.392	111.600	-75.913	1.00	78.28	A16S
ATOM	14773	C6	C	A 708	207.268	111.568	-74.551	1.00	78.28	A16S
ATOM	14774	C2	C	A 708	207.527	110.412	-76.636	1.00	78.28	A16S
ATOM	14775	O2	C	A 708	207.645	110.472	-77.876	1.00	78.28	A16S
ATOM	14776	N3	C	A 708	207.524	109.234	-75.976	1.00	78.28	A16S
ATOM	14777	C4	C	A 708	207.399	109.215	-74.650	1.00	78.28	A16S



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ATOM	14778	N4	C	A	708	207.405	108.032	-74.044	1.00	78.28	A16S
ATOM	14779	C5	C	A	708	207.265	110.408	-73.887	1.00	78.28	A16S
ATOM	14780	C2*	C	A	708	206.021	113.090	-77.326	1.00	84.38	A16S
ATOM	14781	O2*	C	A	708	206.194	113.681	-78.597	1.00	84.38	A16S
ATOM	14782	C3*	C	A	708	205.337	114.003	-76.324	1.00	84.38	A16S
ATOM	14783	O3*	C	A	708	204.302	114.751	-76.917	1.00	84.38	A16S
ATOM	14784	P	G	A	709	202.809	114.178	-76.855	1.00	94.23	A16S
ATOM	14785	O1P	G	A	709	201.862	115.278	-77.200	1.00	87.49	A16S
ATOM	14786	O2P	G	A	709	202.691	113.483	-75.548	1.00	87.49	A16S
ATOM	14787	O5*	G	A	709	202.778	113.048	-77.975	1.00	94.23	A16S
ATOM	14788	C5*	G	A	709	202.967	113.373	-79.353	1.00	94.23	A16S
ATOM	14789	C4*	G	A	709	203.075	112.113	-80.176	1.00	94.23	A16S
ATOM	14790	O4*	G	A	709	204.298	111.395	-79.851	1.00	94.23	A16S
ATOM	14791	C1*	G	A	709	204.097	110.004	-80.060	1.00	94.23	A16S
ATOM	14792	N9	G	A	709	204.294	109.286	-78.808	1.00	87.49	A16S
ATOM	14793	C4	G	A	709	204.387	107.923	-78.675	1.00	87.49	A16S
ATOM	14794	N3	G	A	709	204.372	107.029	-79.680	1.00	87.49	A16S
ATOM	14795	C2	G	A	709	204.440	105.786	-79.234	1.00	87.49	A16S
ATOM	14796	N2	G	A	709	204.445	104.769	-80.095	1.00	87.49	A16S
ATOM	14797	N1	G	A	709	204.508	105.445	-77.908	1.00	87.49	A16S
ATOM	14798	C6	G	A	709	204.517	106.349	-76.852	1.00	87.49	A16S
ATOM	14799	O6	G	A	709	204.555	105.935	-75.685	1.00	87.49	A16S
ATOM	14800	C5	G	A	709	204.462	107.691	-77.317	1.00	87.49	A16S
ATOM	14801	N7	G	A	709	204.460	108.888	-76.613	1.00	87.49	A16S
ATOM	14802	C8	G	A	709	204.368	109.807	-77.538	1.00	87.49	A16S
ATOM	14803	C2*	G	A	709	202.649	109.807	-80.502	1.00	94.23	A16S
ATOM	14804	O2*	G	A	709	202.589	109.700	-81.907	1.00	94.23	A16S
ATOM	14805	C3*	G	A	709	201.986	111.072	-79.976	1.00	94.23	A16S
ATOM	14806	O3*	G	A	709	200.792	111.356	-80.682	1.00	94.23	A16S
ATOM	14807	P	G	A	710	199.409	110.705	-80.184	1.00	91.86	A16S
ATOM	14808	O1P	G	A	710	198.360	111.236	-81.096	1.00	100.57	A16S
ATOM	14809	O2P	G	A	710	199.284	110.914	-78.717	1.00	100.57	A16S
ATOM	14810	O5*	G	A	710	199.574	109.142	-80.461	1.00	91.86	A16S
ATOM	14811	C5*	G	A	710	199.566	108.643	-81.807	1.00	91.86	A16S
ATOM	14812	C4*	G	A	710	199.729	107.140	-81.835	1.00	91.86	A16S
ATOM	14813	O4*	G	A	710	200.999	106.766	-81.233	1.00	91.86	A16S
ATOM	14814	C1*	G	A	710	200.885	105.477	-80.650	1.00	91.86	A16S
ATOM	14815	N9	G	A	710	201.133	105.570	-79.215	1.00	100.57	A16S
ATOM	14816	C4	G	A	710	201.185	104.505	-78.358	1.00	100.57	A16S
ATOM	14817	N3	G	A	710	201.040	103.212	-78.705	1.00	100.57	A16S
ATOM	14818	C2	G	A	710	201.123	102.408	-77.661	1.00	100.57	A16S
ATOM	14819	N2	G	A	710	200.994	101.086	-77.830	1.00	100.57	A16S
ATOM	14820	N1	G	A	710	201.333	102.840	-76.378	1.00	100.57	A16S
ATOM	14821	C6	G	A	710	201.480	104.168	-75.995	1.00	100.57	A16S
ATOM	14822	O6	G	A	710	201.656	104.446	-74.806	1.00	100.57	A16S
ATOM	14823	C5	G	A	710	201.393	105.045	-77.110	1.00	100.57	A16S
ATOM	14824	N7	G	A	710	201.479	106.429	-77.181	1.00	100.57	A16S
ATOM	14825	C8	G	A	710	201.326	106.696	-78.450	1.00	100.57	A16S
ATOM	14826	C2*	G	A	710	199.460	104.983	-80.887	1.00	91.86	A16S
ATOM	14827	O2*	G	A	710	199.449	104.121	-82.005	1.00	91.86	A16S
ATOM	14828	C3*	G	A	710	198.707	106.295	-81.089	1.00	91.86	A16S
ATOM	14829	O3*	G	A	710	197.483	106.115	-81.794	1.00	91.86	A16S
ATOM	14830	P	G	A	711	196.093	106.028	-80.967	1.00	90.21	A16S
ATOM	14831	O1P	G	A	711	194.990	106.087	-81.973	1.00	79.86	A16S
ATOM	14832	O2P	G	A	711	196.124	107.022	-79.845	1.00	79.86	A16S
ATOM	14833	O5*	G	A	711	196.085	104.553	-80.365	1.00	90.21	A16S
ATOM	14834	C5*	G	A	711	196.086	103.442	-81.254	1.00	90.21	A16S
ATOM	14835	C4*	G	A	711	196.458	102.181	-80.533	1.00	90.21	A16S
ATOM	14836	O4*	G	A	711	197.733	102.346	-79.868	1.00	90.21	A16S
ATOM	14837	C1*	G	A	711	197.779	101.499	-78.739	1.00	90.21	A16S
ATOM	14838	N9	G	A	711	198.004	102.299	-77.544	1.00	79.86	A16S
ATOM	14839	C4	G	A	711	198.169	101.782	-76.285	1.00	79.86	A16S
ATOM	14840	N3	G	A	711	198.158	100.467	-75.970	1.00	79.86	A16S
ATOM	14841	C2	G	A	711	198.357	100.264	-74.683	1.00	79.86	A16S
ATOM	14842	N2	G	A	711	198.399	99.002	-74.214	1.00	79.86	A16S
ATOM	14843	N1	G	A	711	198.535	101.279	-73.768	1.00	79.86	A16S
ATOM	14844	C6	G	A	711	198.544	102.637	-74.070	1.00	79.86	A16S
ATOM	14845	O6	G	A	711	198.714	103.456	-73.176	1.00	79.86	A16S
ATOM	14846	C5	G	A	711	198.343	102.868	-75.458	1.00	79.86	A16S
ATOM	14847	N7	G	A	711	198.290	104.054	-76.186	1.00	79.86	A16S
ATOM	14848	C8	G	A	711	198.084	103.668	-77.419	1.00	79.86	A16S
ATOM	14849	C2*	G	A	711	196.433	100.786	-78.633	1.00	90.21	A16S
ATOM	14850	O2*	G	A	711	196.548	99.495	-79.190	1.00	90.21	A16S
ATOM	14851	C3*	G	A	711	195.535	101.722	-79.426	1.00	90.21	A16S
ATOM	14852	O3*	G	A	711	194.388	101.068	-79.933	1.00	90.21	A16S
ATOM	14853	P	A	A	712	192.963	101.315	-79.229	1.00	76.73	A16S
ATOM	14854	O1P	A	A	712	191.899	100.938	-80.213	1.00	71.93	A16S



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ATOM	14855	O2P	A	A	712	192.965	102.688	-78.640	1.00	71.93	A16S
ATOM	14856	O5*	A	A	712	192.946	100.227	-78.070	1.00	76.73	A16S
ATOM	14857	C5*	A	A	712	193.125	98.855	-78.407	1.00	76.73	A16S
ATOM	14858	C4*	A	A	712	193.572	98.078	-77.211	1.00	76.73	A16S
ATOM	14859	O4*	A	A	712	194.819	98.617	-76.708	1.00	76.73	A16S
ATOM	14860	C1*	A	A	712	194.860	98.480	-75.300	1.00	76.73	A16S
ATOM	14861	N9	A	A	712	195.021	99.808	-74.709	1.00	71.93	A16S
ATOM	14862	C4	A	A	712	195.364	100.058	-73.402	1.00	71.93	A16S
ATOM	14863	N3	A	A	712	195.603	99.156	-72.433	1.00	71.93	A16S
ATOM	14864	C2	A	A	712	195.925	99.768	-71.293	1.00	71.93	A16S
ATOM	14865	N1	A	A	712	196.026	101.073	-71.033	1.00	71.93	A16S
ATOM	14866	C6	A	A	712	195.772	101.949	-72.028	1.00	71.93	A16S
ATOM	14867	N6	A	A	712	195.863	103.251	-71.770	1.00	71.93	A16S
ATOM	14868	C5	A	A	712	195.422	101.433	-73.285	1.00	71.93	A16S
ATOM	14869	N7	A	A	712	195.110	102.044	-74.492	1.00	71.93	A16S
ATOM	14870	C8	A	A	712	194.878	101.041	-75.301	1.00	71.93	A16S
ATOM	14871	C2*	A	A	712	193.566	97.793	-74.869	1.00	76.73	A16S
ATOM	14872	O2*	A	A	712	193.813	96.408	-74.767	1.00	76.73	A16S
ATOM	14873	C3*	A	A	712	192.639	98.134	-76.028	1.00	76.73	A16S
ATOM	14874	O3*	A	A	712	191.575	97.218	-76.198	1.00	76.73	A16S
ATOM	14875	P	G	A	713	190.083	97.670	-75.804	1.00	88.99	A16S
ATOM	14876	O1P	G	A	713	189.137	96.650	-76.339	1.00	68.01	A16S
ATOM	14877	O2P	G	A	713	189.914	99.114	-76.176	1.00	68.01	A16S
ATOM	14878	O5*	G	A	713	190.069	97.547	-74.213	1.00	88.99	A16S
ATOM	14879	C5*	G	A	713	190.354	96.285	-73.577	1.00	88.99	A16S
ATOM	14880	C4*	G	A	713	190.729	96.491	-72.132	1.00	88.99	A16S
ATOM	14881	O4*	G	A	713	191.931	97.293	-72.036	1.00	88.99	A16S
ATOM	14882	C1*	G	A	713	191.910	98.049	-70.839	1.00	88.99	A16S
ATOM	14883	N9	G	A	713	192.036	99.464	-71.174	1.00	68.01	A16S
ATOM	14884	C4	G	A	713	192.615	100.457	-70.397	1.00	68.01	A16S
ATOM	14885	N3	G	A	713	193.190	100.293	-69.185	1.00	68.01	A16S
ATOM	14886	C2	G	A	713	193.657	101.437	-68.700	1.00	68.01	A16S
ATOM	14887	N2	G	A	713	194.294	101.454	-67.513	1.00	68.01	A16S
ATOM	14888	N1	G	A	713	193.543	102.645	-69.343	1.00	68.01	A16S
ATOM	14889	C6	G	A	713	192.946	102.836	-70.581	1.00	68.01	A16S
ATOM	14890	O6	G	A	713	192.885	103.966	-71.065	1.00	68.01	A16S
ATOM	14891	C5	G	A	713	192.467	101.619	-71.122	1.00	68.01	A16S
ATOM	14892	N7	G	A	713	191.827	101.368	-72.328	1.00	68.01	A16S
ATOM	14893	C8	G	A	713	191.592	100.080	-72.315	1.00	68.01	A16S
ATOM	14894	C2*	G	A	713	190.605	97.722	-70.120	1.00	88.99	A16S
ATOM	14895	O2*	G	A	713	190.876	96.686	-69.199	1.00	88.99	A16S
ATOM	14896	C3*	G	A	713	189.736	97.241	-71.274	1.00	88.99	A16S
ATOM	14897	O3*	G	A	713	188.677	96.402	-70.858	1.00	88.99	A16S
ATOM	14898	P	G	A	714	187.195	97.015	-70.720	1.00	72.93	A16S
ATOM	14899	O1P	G	A	714	186.215	95.940	-71.048	1.00	75.16	A16S
ATOM	14900	O2P	G	A	714	187.141	98.311	-71.453	1.00	75.16	A16S
ATOM	14901	O5*	G	A	714	187.074	97.353	-69.171	1.00	72.93	A16S
ATOM	14902	C5*	G	A	714	187.319	96.342	-68.193	1.00	72.93	A16S
ATOM	14903	C4*	G	A	714	187.903	96.953	-66.953	1.00	72.93	A16S
ATOM	14904	O4*	G	A	714	189.133	97.640	-67.282	1.00	72.93	A16S
ATOM	14905	C1*	G	A	714	189.283	98.773	-66.456	1.00	72.93	A16S
ATOM	14906	N9	G	A	714	189.277	99.953	-67.304	1.00	75.16	A16S
ATOM	14907	C4	G	A	714	190.004	101.100	-67.101	1.00	75.16	A16S
ATOM	14908	N3	G	A	714	190.864	101.328	-66.083	1.00	75.16	A16S
ATOM	14909	C2	G	A	714	191.405	102.533	-66.154	1.00	75.16	A16S
ATOM	14910	N2	G	A	714	192.275	102.936	-65.223	1.00	75.16	A16S
ATOM	14911	N1	G	A	714	191.133	103.432	-67.144	1.00	75.16	A16S
ATOM	14912	C6	G	A	714	190.260	103.217	-68.205	1.00	75.16	A16S
ATOM	14913	O6	G	A	714	190.100	104.097	-69.061	1.00	75.16	A16S
ATOM	14914	C5	G	A	714	189.659	101.936	-68.138	1.00	75.16	A16S
ATOM	14915	N7	G	A	714	188.731	101.328	-68.979	1.00	75.16	A16S
ATOM	14916	C8	G	A	714	188.538	100.152	-68.449	1.00	75.16	A16S
ATOM	14917	C2*	G	A	714	188.102	98.792	-65.496	1.00	72.93	A16S
ATOM	14918	O2*	G	A	714	188.507	98.104	-64.335	1.00	72.93	A16S
ATOM	14919	C3*	G	A	714	187.063	98.020	-66.291	1.00	72.93	A16S
ATOM	14920	O3*	G	A	714	186.090	97.419	-65.479	1.00	72.93	A16S
ATOM	14921	P	A	A	715	184.627	98.061	-65.394	1.00	71.52	A16S
ATOM	14922	O1P	A	A	715	183.837	96.956	-64.794	1.00	74.29	A16S
ATOM	14923	O2P	A	A	715	184.215	98.640	-66.701	1.00	74.29	A16S
ATOM	14924	O5*	A	A	715	184.783	99.252	-64.345	1.00	71.52	A16S
ATOM	14925	C5*	A	A	715	185.114	98.976	-62.970	1.00	71.52	A16S
ATOM	14926	C4*	A	A	715	185.847	100.143	-62.357	1.00	71.52	A16S
ATOM	14927	O4*	A	A	715	187.002	100.480	-63.166	1.00	71.52	A16S
ATOM	14928	C1*	A	A	715	187.238	101.878	-63.103	1.00	71.52	A16S
ATOM	14929	N9	A	A	715	187.152	102.431	-64.451	1.00	74.29	A16S
ATOM	14930	C4	A	A	715	187.668	103.639	-64.846	1.00	74.29	A16S
ATOM	14931	N3	A	A	715	188.335	104.518	-64.088	1.00	74.29	A16S



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ATOM	14932	C2	A	A	715	188.682	105.583	-64.809	1.00	74.29	A16S
ATOM	14933	N1	A	A	715	188.451	105.848	-66.103	1.00	74.29	A16S
ATOM	14934	C6	A	A	715	187.771	104.943	-66.832	1.00	74.29	A16S
ATOM	14935	N6	A	A	715	187.533	105.209	-68.117	1.00	74.29	A16S
ATOM	14936	C5	A	A	715	187.350	103.769	-66.186	1.00	74.29	A16S
ATOM	14937	N7	A	A	715	186.642	102.662	-66.630	1.00	74.29	A16S
ATOM	14938	C8	A	A	715	186.552	101.898	-65.565	1.00	74.29	A16S
ATOM	14939	C2*	A	A	715	186.176	102.491	-62.194	1.00	71.52	A16S
ATOM	14940	O2*	A	A	715	186.717	102.625	-60.899	1.00	71.52	A16S
ATOM	14941	C3*	A	A	715	185.074	101.445	-62.270	1.00	71.52	A16S
ATOM	14942	O3*	A	A	715	184.272	101.461	-61.118	1.00	71.52	A16S
ATOM	14943	P	A	A	716	182.896	102.272	-61.128	1.00	70.32	A16S
ATOM	14944	O1P	A	A	716	182.205	101.856	-59.878	1.00	65.13	A16S
ATOM	14945	O2P	A	A	716	182.217	102.103	-62.443	1.00	65.13	A16S
ATOM	14946	O5*	A	A	716	183.351	103.789	-60.975	1.00	70.32	A16S
ATOM	14947	C5*	A	A	716	183.722	104.290	-59.688	1.00	70.32	A16S
ATOM	14948	C4*	A	A	716	184.434	105.603	-59.816	1.00	70.32	A16S
ATOM	14949	O4*	A	A	716	185.488	105.472	-60.809	1.00	70.32	A16S
ATOM	14950	C1*	A	A	716	185.692	106.723	-61.452	1.00	70.32	A16S
ATOM	14951	N9	A	A	716	185.447	106.580	-62.894	1.00	65.13	A16S
ATOM	14952	C4	A	A	716	185.877	107.455	-63.870	1.00	65.13	A16S
ATOM	14953	N3	A	A	716	186.629	108.562	-63.709	1.00	65.13	A16S
ATOM	14954	C2	A	A	716	186.816	109.188	-64.875	1.00	65.13	A16S
ATOM	14955	N1	A	A	716	186.373	108.859	-66.087	1.00	65.13	A16S
ATOM	14956	C6	A	A	716	185.623	107.740	-66.219	1.00	65.13	A16S
ATOM	14957	N6	A	A	716	185.172	107.417	-67.432	1.00	65.13	A16S
ATOM	14958	C5	A	A	716	185.355	106.982	-65.059	1.00	65.13	A16S
ATOM	14959	N7	A	A	716	184.640	105.809	-64.851	1.00	65.13	A16S
ATOM	14960	C8	A	A	716	184.732	105.607	-63.557	1.00	65.13	A16S
ATOM	14961	C2*	A	A	716	184.719	107.715	-60.813	1.00	70.32	A16S
ATOM	14962	O2*	A	A	716	185.348	108.359	-59.719	1.00	70.32	A16S
ATOM	14963	C3*	A	A	716	183.626	106.789	-60.310	1.00	70.32	A16S
ATOM	14964	O3*	A	A	716	182.852	107.418	-59.299	1.00	70.32	A16S
ATOM	14965	P	C	A	717	181.500	108.198	-59.715	1.00	73.07	A16S
ATOM	14966	O1P	C	A	717	180.850	108.623	-58.456	1.00	67.70	A16S
ATOM	14967	O2P	C	A	717	180.727	107.383	-60.701	1.00	67.70	A16S
ATOM	14968	O5*	C	A	717	182.003	109.504	-60.478	1.00	73.07	A16S
ATOM	14969	C5*	C	A	717	182.899	110.421	-59.837	1.00	73.07	A16S
ATOM	14970	C4*	C	A	717	183.562	111.335	-60.856	1.00	73.07	A16S
ATOM	14971	O4*	C	A	717	184.036	110.564	-61.992	1.00	73.07	A16S
ATOM	14972	C1*	C	A	717	183.659	111.192	-63.192	1.00	73.07	A16S
ATOM	14973	N1	C	A	717	183.235	110.154	-64.146	1.00	67.70	A16S
ATOM	14974	C6	C	A	717	182.577	109.031	-63.717	1.00	67.70	A16S
ATOM	14975	C2	C	A	717	183.494	110.337	-65.502	1.00	67.70	A16S
ATOM	14976	O2	C	A	717	184.128	111.335	-65.856	1.00	67.70	A16S
ATOM	14977	N3	C	A	717	183.053	109.416	-66.391	1.00	67.70	A16S
ATOM	14978	C4	C	A	717	182.399	108.335	-65.964	1.00	67.70	A16S
ATOM	14979	N4	C	A	717	181.977	107.458	-66.867	1.00	67.70	A16S
ATOM	14980	C5	C	A	717	182.147	108.105	-64.587	1.00	67.70	A16S
ATOM	14981	C2*	C	A	717	182.494	112.115	-62.863	1.00	73.07	A16S
ATOM	14982	O2*	C	A	717	182.592	113.244	-63.702	1.00	73.07	A16S
ATOM	14983	C3*	C	A	717	182.768	112.507	-61.420	1.00	73.07	A16S
ATOM	14984	O3*	C	A	717	183.592	113.652	-61.437	1.00	73.07	A16S
ATOM	14985	P	G	A	718	183.250	114.894	-60.478	1.00	74.78	A16S
ATOM	14986	O1P	G	A	718	182.461	114.415	-59.309	1.00	79.73	A16S
ATOM	14987	O2P	G	A	718	182.717	115.991	-61.327	1.00	79.73	A16S
ATOM	14988	O5*	G	A	718	184.680	115.302	-59.920	1.00	74.78	A16S
ATOM	14989	C5*	G	A	718	184.981	116.651	-59.652	1.00	74.78	A16S
ATOM	14990	C4*	G	A	718	186.438	116.934	-59.913	1.00	74.78	A16S
ATOM	14991	O4*	G	A	718	186.884	116.337	-61.155	1.00	74.78	A16S
ATOM	14992	C1*	G	A	718	187.702	117.258	-61.858	1.00	74.78	A16S
ATOM	14993	N9	G	A	718	187.085	117.507	-63.160	1.00	79.73	A16S
ATOM	14994	C4	G	A	718	187.410	118.491	-64.071	1.00	79.73	A16S
ATOM	14995	N3	G	A	718	188.373	119.428	-63.927	1.00	79.73	A16S
ATOM	14996	C2	G	A	718	188.448	120.229	-64.986	1.00	79.73	A16S
ATOM	14997	N2	G	A	718	189.353	121.221	-65.014	1.00	79.73	A16S
ATOM	14998	N1	G	A	718	187.641	120.118	-66.095	1.00	79.73	A16S
ATOM	14999	C6	G	A	718	186.648	119.159	-66.268	1.00	79.73	A16S
ATOM	15000	O6	G	A	718	185.978	119.139	-67.314	1.00	79.73	A16S
ATOM	15001	C5	G	A	718	186.556	118.294	-65.140	1.00	79.73	A16S
ATOM	15002	N7	G	A	718	185.717	117.214	-64.908	1.00	79.73	A16S
ATOM	15003	C8	G	A	718	186.063	116.783	-63.727	1.00	79.73	A16S
ATOM	15004	C2*	G	A	718	187.889	118.497	-60.974	1.00	74.78	A16S
ATOM	15005	O2*	G	A	718	189.088	118.365	-60.240	1.00	74.78	A16S
ATOM	15006	C3*	G	A	718	186.663	118.422	-60.074	1.00	74.78	A16S
ATOM	15007	O3*	G	A	718	186.823	118.984	-58.783	1.00	74.78	A16S
ATOM	15008	P	C	A	719	185.577	119.716	-58.086	1.00	78.22	A16S



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ATOM	15009	O1P	C	A	719	185.987	120.038	-56.685	1.00	72.81	A16S
ATOM	15010	O2P	C	A	719	184.321	118.953	-58.323	1.00	72.81	A16S
ATOM	15011	O5*	C	A	719	185.480	121.076	-58.899	1.00	78.22	A16S
ATOM	15012	C5*	C	A	719	186.556	122.017	-58.854	1.00	78.22	A16S
ATOM	15013	C4*	C	A	719	186.484	122.926	-60.041	1.00	78.22	A16S
ATOM	15014	O4*	C	A	719	186.573	122.125	-61.232	1.00	78.22	A16S
ATOM	15015	C1*	C	A	719	185.918	122.797	-62.281	1.00	78.22	A16S
ATOM	15016	N1	C	A	719	185.154	121.833	-63.084	1.00	72.81	A16S
ATOM	15017	C6	C	A	719	184.759	120.630	-62.567	1.00	72.81	A16S
ATOM	15018	C2	C	A	719	184.853	122.166	-64.414	1.00	72.81	A16S
ATOM	15019	O2	C	A	719	185.200	123.272	-64.851	1.00	72.81	A16S
ATOM	15020	N3	C	A	719	184.194	121.280	-65.183	1.00	72.81	A16S
ATOM	15021	C4	C	A	719	183.826	120.102	-64.677	1.00	72.81	A16S
ATOM	15022	N4	C	A	719	183.187	119.250	-65.486	1.00	72.81	A16S
ATOM	15023	C5	C	A	719	184.100	119.742	-63.321	1.00	72.81	A16S
ATOM	15024	C2*	C	A	719	185.127	123.966	-61.694	1.00	78.22	A16S
ATOM	15025	O2*	C	A	719	185.815	125.156	-62.004	1.00	78.22	A16S
ATOM	15026	C3*	C	A	719	185.170	123.663	-60.204	1.00	78.22	A16S
ATOM	15027	O3*	C	A	719	185.189	124.857	-59.444	1.00	78.22	A16S
ATOM	15028	P	C	A	720	184.061	125.103	-58.336	1.00	69.03	A16S
ATOM	15029	O1P	C	A	720	184.235	126.487	-57.786	1.00	58.61	A16S
ATOM	15030	O2P	C	A	720	184.127	123.932	-57.426	1.00	58.61	A16S
ATOM	15031	O5*	C	A	720	182.698	125.055	-59.158	1.00	69.03	A16S
ATOM	15032	C5*	C	A	720	182.328	126.146	-60.017	1.00	69.03	A16S
ATOM	15033	C4*	C	A	720	181.153	125.755	-60.874	1.00	69.03	A16S
ATOM	15034	O4*	C	A	720	181.530	124.666	-61.752	1.00	69.03	A16S
ATOM	15035	C1*	C	A	720	180.446	123.776	-61.901	1.00	69.03	A16S
ATOM	15036	N1	C	A	720	180.879	122.470	-61.407	1.00	58.61	A16S
ATOM	15037	C6	C	A	720	181.859	122.374	-60.460	1.00	58.61	A16S
ATOM	15038	C2	C	A	720	180.276	121.314	-61.920	1.00	58.61	A16S
ATOM	15039	O2	C	A	720	179.382	121.430	-62.765	1.00	58.61	A16S
ATOM	15040	N3	C	A	720	180.678	120.100	-61.478	1.00	58.61	A16S
ATOM	15041	C4	C	A	720	181.630	120.017	-60.549	1.00	58.61	A16S
ATOM	15042	N4	C	A	720	181.985	118.803	-60.127	1.00	58.61	A16S
ATOM	15043	C5	C	A	720	182.261	121.180	-60.004	1.00	58.61	A16S
ATOM	15044	C2*	C	A	720	179.256	124.341	-61.125	1.00	69.03	A16S
ATOM	15045	O2*	C	A	720	178.409	125.035	-62.017	1.00	69.03	A16S
ATOM	15046	C3*	C	A	720	179.946	125.248	-60.107	1.00	69.03	A16S
ATOM	15047	O3*	C	A	720	179.145	126.359	-59.730	1.00	69.03	A16S
ATOM	15048	P	G	A	721	178.464	126.424	-58.272	1.00	76.06	A16S
ATOM	15049	O1P	G	A	721	177.033	126.000	-58.383	1.00	74.29	A16S
ATOM	15050	O2P	G	A	721	178.798	127.770	-57.736	1.00	74.29	A16S
ATOM	15051	O5*	G	A	721	179.214	125.364	-57.360	1.00	76.06	A16S
ATOM	15052	C5*	G	A	721	178.922	125.328	-55.957	1.00	76.06	A16S
ATOM	15053	C4*	G	A	721	179.431	124.057	-55.333	1.00	76.06	A16S
ATOM	15054	O4*	G	A	721	178.720	122.919	-55.889	1.00	76.06	A16S
ATOM	15055	C1*	G	A	721	179.638	121.980	-56.403	1.00	76.06	A16S
ATOM	15056	N9	G	A	721	179.083	121.478	-57.655	1.00	74.29	A16S
ATOM	15057	C4	G	A	721	179.051	120.170	-58.103	1.00	74.29	A16S
ATOM	15058	N3	G	A	721	179.538	119.086	-57.454	1.00	74.29	A16S
ATOM	15059	C2	G	A	721	179.335	117.964	-58.144	1.00	74.29	A16S
ATOM	15060	N2	G	A	721	179.735	116.792	-57.650	1.00	74.29	A16S
ATOM	15061	N1	G	A	721	178.718	117.909	-59.373	1.00	74.29	A16S
ATOM	15062	C6	G	A	721	178.214	119.009	-60.062	1.00	74.29	A16S
ATOM	15063	O6	G	A	721	177.675	118.853	-61.173	1.00	74.29	A16S
ATOM	15064	C5	G	A	721	178.413	120.222	-59.329	1.00	74.29	A16S
ATOM	15065	N7	G	A	721	178.058	121.528	-59.645	1.00	74.29	A16S
ATOM	15066	C8	G	A	721	178.473	122.234	-58.628	1.00	74.29	A16S
ATOM	15067	C2*	G	A	721	180.960	122.725	-56.598	1.00	76.06	A16S
ATOM	15068	O2*	G	A	721	182.048	121.840	-56.437	1.00	76.06	A16S
ATOM	15069	C3*	G	A	721	180.917	123.789	-55.501	1.00	76.06	A16S
ATOM	15070	O3*	G	A	721	181.455	123.303	-54.276	1.00	76.06	A16S
ATOM	15071	P	A	A	722	182.218	124.315	-53.285	1.00	100.72	A16S
ATOM	15072	O1P	A	A	722	182.747	125.448	-54.082	1.00	62.02	A16S
ATOM	15073	O2P	A	A	722	183.136	123.525	-52.422	1.00	62.02	A16S
ATOM	15074	O5*	A	A	722	181.067	124.900	-52.360	1.00	100.72	A16S
ATOM	15075	C5*	A	A	722	180.328	124.042	-51.481	1.00	100.72	A16S
ATOM	15076	C4*	A	A	722	179.026	124.695	-51.110	1.00	100.72	A16S
ATOM	15077	O4*	A	A	722	178.327	125.068	-52.311	1.00	100.72	A16S
ATOM	15078	C1*	A	A	722	176.943	124.931	-52.110	1.00	100.72	A16S
ATOM	15079	N9	A	A	722	176.396	124.201	-53.242	1.00	62.02	A16S
ATOM	15080	C4	A	A	722	176.612	122.897	-53.597	1.00	62.02	A16S
ATOM	15081	N3	A	A	722	177.332	121.985	-52.934	1.00	62.02	A16S
ATOM	15082	C2	A	A	722	177.333	120.837	-53.598	1.00	62.02	A16S
ATOM	15083	N1	A	A	722	176.745	120.528	-54.767	1.00	62.02	A16S
ATOM	15084	C6	A	A	722	176.031	121.481	-55.401	1.00	62.02	A16S
ATOM	15085	N6	A	A	722	175.447	121.200	-56.573	1.00	62.02	A16S



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ATOM	15086	C5	A	A	722	175.945	122.722	-54.796	1.00	62.02	A16S
ATOM	15087	N7	A	A	722	175.290	123.880	-55.170	1.00	62.02	A16S
ATOM	15088	C8	A	A	722	175.581	124.723	-54.212	1.00	62.02	A16S
ATOM	15089	C2*	A	A	722	176.693	124.360	-50.717	1.00	100.72	A16S
ATOM	15090	O2*	A	A	722	176.259	125.452	-49.943	1.00	100.72	A16S
ATOM	15091	C3*	A	A	722	178.072	123.818	-50.326	1.00	100.72	A16S
ATOM	15092	O3*	A	A	722	178.330	124.078	-48.950	1.00	100.72	A16S
ATOM	15093	P	U	A	723	178.951	122.940	-48.009	1.00	142.80	A16S
ATOM	15094	O1P	U	A	723	180.322	123.388	-47.665	1.00	190.97	A16S
ATOM	15095	O2P	U	A	723	178.750	121.614	-48.653	1.00	190.97	A16S
ATOM	15096	O5*	U	A	723	178.058	123.034	-46.687	1.00	142.80	A16S
ATOM	15097	C5*	U	A	723	176.608	123.012	-46.766	1.00	142.80	A16S
ATOM	15098	C4*	U	A	723	176.009	124.254	-46.131	1.00	142.80	A16S
ATOM	15099	O4*	U	A	723	177.017	125.294	-46.019	1.00	142.80	A16S
ATOM	15100	C1*	U	A	723	176.459	126.555	-46.362	1.00	142.80	A16S
ATOM	15101	N1	U	A	723	177.212	127.079	-47.526	1.00	190.97	A16S
ATOM	15102	C6	U	A	723	178.551	126.761	-47.687	1.00	190.97	A16S
ATOM	15103	C2	U	A	723	176.560	127.887	-48.474	1.00	190.97	A16S
ATOM	15104	O2	U	A	723	175.390	128.236	-48.381	1.00	190.97	A16S
ATOM	15105	N3	U	A	723	177.340	128.273	-49.540	1.00	190.97	A16S
ATOM	15106	C4	U	A	723	178.668	127.965	-49.760	1.00	190.97	A16S
ATOM	15107	O4	U	A	723	179.206	128.332	-50.808	1.00	190.97	A16S
ATOM	15108	C5	U	A	723	179.275	127.166	-48.739	1.00	190.97	A16S
ATOM	15109	C2*	U	A	723	174.950	126.346	-46.560	1.00	142.80	A16S
ATOM	15110	O2*	U	A	723	174.264	126.641	-45.358	1.00	142.80	A16S
ATOM	15111	C3*	U	A	723	174.882	124.873	-46.948	1.00	142.80	A16S
ATOM	15112	O3*	U	A	723	173.612	124.297	-46.660	1.00	142.80	A16S
ATOM	15113	P	G	A	724	173.017	123.139	-47.613	1.00	92.10	A16S
ATOM	15114	O1P	G	A	724	171.564	123.024	-47.319	1.00	79.36	A16S
ATOM	15115	O2P	G	A	724	173.898	121.928	-47.474	1.00	79.36	A16S
ATOM	15116	O5*	G	A	724	173.127	123.712	-49.097	1.00	92.10	A16S
ATOM	15117	C5*	G	A	724	172.347	124.837	-49.509	1.00	92.10	A16S
ATOM	15118	C4*	G	A	724	171.861	124.655	-50.931	1.00	92.10	A16S
ATOM	15119	O4*	G	A	724	172.993	124.375	-51.801	1.00	92.10	A16S
ATOM	15120	C1*	G	A	724	172.586	123.530	-52.868	1.00	92.10	A16S
ATOM	15121	N9	G	A	724	173.278	122.248	-52.741	1.00	79.36	A16S
ATOM	15122	C4	G	A	724	173.166	121.175	-53.597	1.00	79.36	A16S
ATOM	15123	N3	G	A	724	172.442	121.140	-54.739	1.00	79.36	A16S
ATOM	15124	C2	G	A	724	172.513	119.958	-55.335	1.00	79.36	A16S
ATOM	15125	N2	G	A	724	171.857	119.747	-56.496	1.00	79.36	A16S
ATOM	15126	N1	G	A	724	173.232	118.897	-54.843	1.00	79.36	A16S
ATOM	15127	C6	G	A	724	173.982	118.915	-53.673	1.00	79.36	A16S
ATOM	15128	O6	G	A	724	174.589	117.906	-53.322	1.00	79.36	A16S
ATOM	15129	C5	G	A	724	173.923	120.175	-53.029	1.00	79.36	A16S
ATOM	15130	N7	G	A	724	174.528	120.616	-51.862	1.00	79.36	A16S
ATOM	15131	C8	G	A	724	174.126	121.850	-51.734	1.00	79.36	A16S
ATOM	15132	C2*	G	A	724	171.081	123.320	-52.723	1.00	92.10	A16S
ATOM	15133	O2*	G	A	724	170.403	124.281	-53.512	1.00	92.10	A16S
ATOM	15134	C3*	G	A	724	170.891	123.516	-51.220	1.00	92.10	A16S
ATOM	15135	O3*	G	A	724	169.533	123.812	-50.880	1.00	92.10	A16S
ATOM	15136	P	G	A	725	168.498	122.603	-50.588	1.00	70.62	A16S
ATOM	15137	O1P	G	A	725	167.183	123.222	-50.323	1.00	61.45	A16S
ATOM	15138	O2P	G	A	725	169.086	121.685	-49.569	1.00	61.45	A16S
ATOM	15139	O5*	G	A	725	168.389	121.841	-51.989	1.00	70.62	A16S
ATOM	15140	C5*	G	A	725	167.881	122.509	-53.171	1.00	70.62	A16S
ATOM	15141	C4*	G	A	725	167.777	121.535	-54.320	1.00	70.62	A16S
ATOM	15142	O4*	G	A	725	169.095	120.993	-54.601	1.00	70.62	A16S
ATOM	15143	C1*	G	A	725	168.988	119.633	-55.002	1.00	70.62	A16S
ATOM	15144	N9	G	A	725	169.753	118.812	-54.064	1.00	61.45	A16S
ATOM	15145	C4	G	A	725	170.017	117.455	-54.156	1.00	61.45	A16S
ATOM	15146	N3	G	A	725	169.626	116.626	-55.145	1.00	61.45	A16S
ATOM	15147	C2	G	A	725	170.019	115.377	-54.927	1.00	61.45	A16S
ATOM	15148	N2	G	A	725	169.715	114.413	-55.791	1.00	61.45	A16S
ATOM	15149	N1	G	A	725	170.736	114.976	-53.844	1.00	61.45	A16S
ATOM	15150	C6	G	A	725	171.154	115.805	-52.818	1.00	61.45	A16S
ATOM	15151	O6	G	A	725	171.806	115.331	-51.873	1.00	61.45	A16S
ATOM	15152	C5	G	A	725	170.739	117.150	-53.028	1.00	61.45	A16S
ATOM	15153	N7	G	A	725	170.943	118.282	-52.254	1.00	61.45	A16S
ATOM	15154	C8	G	A	725	170.344	119.238	-52.906	1.00	61.45	A16S
ATOM	15155	C2*	G	A	725	167.503	119.272	-55.027	1.00	70.62	A16S
ATOM	15156	O2*	G	A	725	167.010	119.394	-56.346	1.00	70.62	A16S
ATOM	15157	C3*	G	A	725	166.917	120.305	-54.069	1.00	70.62	A16S
ATOM	15158	O3*	G	A	725	165.532	120.533	-54.311	1.00	70.62	A16S
ATOM	15159	P	C	A	726	164.435	119.612	-53.565	1.00	62.31	A16S
ATOM	15160	O1P	C	A	726	163.068	120.064	-53.966	1.00	66.48	A16S
ATOM	15161	O2P	C	A	726	164.804	119.563	-52.116	1.00	66.48	A16S
ATOM	15162	O5*	C	A	726	164.642	118.165	-54.201	1.00	62.31	A16S



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ATOM	15163	C5*	C	A	726	164.307	117.922	-55.571	1.00	62.31	A16S
ATOM	15164	C4*	C	A	726	164.503	116.470	-55.904	1.00	62.31	A16S
ATOM	15165	O4*	C	A	726	165.912	116.125	-55.834	1.00	62.31	A16S
ATOM	15166	C1*	C	A	726	166.056	114.772	-55.416	1.00	62.31	A16S
ATOM	15167	N1	C	A	726	166.856	114.714	-54.182	1.00	66.48	A16S
ATOM	15168	C6	C	A	726	167.192	115.845	-53.495	1.00	66.48	A16S
ATOM	15169	C2	C	A	726	167.255	113.459	-53.709	1.00	66.48	A16S
ATOM	15170	O2	C	A	726	166.962	112.451	-54.366	1.00	66.48	A16S
ATOM	15171	N3	C	A	726	167.947	113.373	-52.551	1.00	66.48	A16S
ATOM	15172	C4	C	A	726	168.245	114.480	-51.873	1.00	66.48	A16S
ATOM	15173	N4	C	A	726	168.894	114.345	-50.718	1.00	66.48	A16S
ATOM	15174	C5	C	A	726	167.881	115.775	-52.347	1.00	66.48	A16S
ATOM	15175	C2*	C	A	726	164.658	114.219	-55.174	1.00	62.31	A16S
ATOM	15176	O2*	C	A	726	164.267	113.518	-56.327	1.00	62.31	A16S
ATOM	15177	C3*	C	A	726	163.868	115.498	-54.937	1.00	62.31	A16S
ATOM	15178	O3*	C	A	726	162.482	115.361	-55.116	1.00	62.31	A16S
ATOM	15179	P	G	A	727	161.575	115.107	-53.829	1.00	67.03	A16S
ATOM	15180	O1P	G	A	727	160.143	115.193	-54.215	1.00	64.74	A16S
ATOM	15181	O2P	G	A	727	162.108	115.994	-52.750	1.00	64.74	A16S
ATOM	15182	O5*	G	A	727	161.878	113.585	-53.482	1.00	67.03	A16S
ATOM	15183	C5*	G	A	727	161.479	112.569	-54.399	1.00	67.03	A16S
ATOM	15184	C4*	G	A	727	162.043	111.231	-54.007	1.00	67.03	A16S
ATOM	15185	O4*	G	A	727	163.493	111.282	-53.980	1.00	67.03	A16S
ATOM	15186	C1*	G	A	727	163.982	110.332	-53.044	1.00	67.03	A16S
ATOM	15187	N9	G	A	727	164.753	111.030	-52.017	1.00	64.74	A16S
ATOM	15188	C4	G	A	727	165.635	110.463	-51.130	1.00	64.74	A16S
ATOM	15189	N3	G	A	727	166.007	109.173	-51.104	1.00	64.74	A16S
ATOM	15190	C2	G	A	727	166.836	108.924	-50.101	1.00	64.74	A16S
ATOM	15191	N2	G	A	727	167.333	107.693	-49.926	1.00	64.74	A16S
ATOM	15192	N1	G	A	727	167.249	109.860	-49.190	1.00	64.74	A16S
ATOM	15193	C6	G	A	727	166.874	111.192	-49.196	1.00	64.74	A16S
ATOM	15194	O6	G	A	727	167.292	111.949	-48.308	1.00	64.74	A16S
ATOM	15195	C5	G	A	727	166.008	111.482	-50.281	1.00	64.74	A16S
ATOM	15196	N7	G	A	727	165.426	112.679	-50.665	1.00	64.74	A16S
ATOM	15197	C8	G	A	727	164.700	112.366	-51.704	1.00	64.74	A16S
ATOM	15198	C2*	G	A	727	162.762	109.631	-52.439	1.00	67.03	A16S
ATOM	15199	O2*	G	A	727	162.525	108.438	-53.167	1.00	67.03	A16S
ATOM	15200	C3*	G	A	727	161.668	110.675	-52.648	1.00	67.03	A16S
ATOM	15201	O3*	G	A	727	160.357	110.114	-52.649	1.00	67.03	A16S
ATOM	15202	P	A	A	728	159.281	110.592	-51.537	1.00	68.49	A16S
ATOM	15203	O1P	A	A	728	158.063	109.724	-51.641	1.00	63.76	A16S
ATOM	15204	O2P	A	A	728	159.133	112.084	-51.625	1.00	63.76	A16S
ATOM	15205	O5*	A	A	728	159.979	110.213	-50.159	1.00	68.49	A16S
ATOM	15206	C5*	A	A	728	159.229	110.224	-48.944	1.00	68.49	A16S
ATOM	15207	C4*	A	A	728	159.636	109.069	-48.068	1.00	68.49	A16S
ATOM	15208	O4*	A	A	728	159.010	107.843	-48.499	1.00	68.49	A16S
ATOM	15209	C1*	A	A	728	159.893	106.760	-48.292	1.00	68.49	A16S
ATOM	15210	N9	A	A	728	160.170	106.179	-49.596	1.00	63.76	A16S
ATOM	15211	C4	A	A	728	160.531	104.880	-49.862	1.00	63.76	A16S
ATOM	15212	N3	A	A	728	160.701	103.881	-48.982	1.00	63.76	A16S
ATOM	15213	C2	A	A	728	161.057	102.768	-49.599	1.00	63.76	A16S
ATOM	15214	N1	A	A	728	161.251	102.552	-50.895	1.00	63.76	A16S
ATOM	15215	C6	A	A	728	161.076	103.579	-51.753	1.00	63.76	A16S
ATOM	15216	N6	A	A	728	161.277	103.374	-53.051	1.00	63.76	A16S
ATOM	15217	C5	A	A	728	160.694	104.811	-51.228	1.00	63.76	A16S
ATOM	15218	N7	A	A	728	160.436	106.041	-51.822	1.00	63.76	A16S
ATOM	15219	C8	A	A	728	160.130	106.817	-50.814	1.00	63.76	A16S
ATOM	15220	C2*	A	A	728	161.164	107.306	-47.646	1.00	68.49	A16S
ATOM	15221	O2*	A	A	728	161.081	107.137	-46.252	1.00	68.49	A16S
ATOM	15222	C3*	A	A	728	161.114	108.764	-48.073	1.00	68.49	A16S
ATOM	15223	O3*	A	A	728	161.792	109.636	-47.208	1.00	68.49	A16S
ATOM	15224	P	A	A	729	163.290	110.074	-47.564	1.00	54.78	A16S
ATOM	15225	O1P	A	A	729	163.623	111.177	-46.599	1.00	64.62	A16S
ATOM	15226	O2P	A	A	729	163.384	110.329	-49.036	1.00	64.62	A16S
ATOM	15227	O5*	A	A	729	164.148	108.777	-47.179	1.00	54.78	A16S
ATOM	15228	C5*	A	A	729	164.397	108.489	-45.794	1.00	54.78	A16S
ATOM	15229	C4*	A	A	729	164.751	107.045	-45.581	1.00	54.78	A16S
ATOM	15230	O4*	A	A	729	163.792	106.181	-46.234	1.00	54.78	A16S
ATOM	15231	C1*	A	A	729	164.423	104.964	-46.579	1.00	54.78	A16S
ATOM	15232	N9	A	A	729	164.359	104.798	-48.027	1.00	64.62	A16S
ATOM	15233	C4	A	A	729	164.384	103.597	-48.689	1.00	64.62	A16S
ATOM	15234	N3	A	A	729	164.423	102.372	-48.141	1.00	64.62	A16S
ATOM	15235	C2	A	A	729	164.455	101.444	-49.084	1.00	64.62	A16S
ATOM	15236	N1	A	A	729	164.463	101.590	-50.415	1.00	64.62	A16S
ATOM	15237	C6	A	A	729	164.440	102.836	-50.932	1.00	64.62	A16S
ATOM	15238	N6	A	A	729	164.494	102.979	-52.260	1.00	64.62	A16S
ATOM	15239	C5	A	A	729	164.379	103.907	-50.035	1.00	64.62	A16S



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ATOM	15240	N7	A	A	729	164.320	105.280	-50.222	1.00	64.62	A16S
ATOM	15241	C8	A	A	729	164.305	105.763	-49.003	1.00	64.62	A16S
ATOM	15242	C2*	A	A	729	165.885	105.066	-46.159	1.00	54.78	A16S
ATOM	15243	O2*	A	A	729	166.068	104.450	-44.910	1.00	54.78	A16S
ATOM	15244	C3*	A	A	729	166.081	106.570	-46.113	1.00	54.78	A16S
ATOM	15245	O3*	A	A	729	167.167	106.947	-45.285	1.00	54.78	A16S
ATOM	15246	P	G	A	730	168.561	107.372	-45.975	1.00	59.73	A16S
ATOM	15247	O1P	G	A	730	169.506	107.845	-44.927	1.00	67.59	A16S
ATOM	15248	O2P	G	A	730	168.236	108.265	-47.124	1.00	67.59	A16S
ATOM	15249	O5*	G	A	730	169.120	105.979	-46.521	1.00	59.73	A16S
ATOM	15250	C5*	G	A	730	169.482	104.937	-45.591	1.00	59.73	A16S
ATOM	15251	C4*	G	A	730	169.707	103.615	-46.296	1.00	59.73	A16S
ATOM	15252	O4*	G	A	730	168.492	103.222	-46.976	1.00	59.73	A16S
ATOM	15253	C1*	G	A	730	168.811	102.502	-48.150	1.00	59.73	A16S
ATOM	15254	N9	G	A	730	168.413	103.294	-49.310	1.00	67.59	A16S
ATOM	15255	C4	G	A	730	168.555	102.916	-50.617	1.00	67.59	A16S
ATOM	15256	N3	G	A	730	169.027	101.732	-51.039	1.00	67.59	A16S
ATOM	15257	C2	G	A	730	169.074	101.661	-52.352	1.00	67.59	A16S
ATOM	15258	N2	G	A	730	169.505	100.523	-52.935	1.00	67.59	A16S
ATOM	15259	N1	G	A	730	168.703	102.691	-53.186	1.00	67.59	A16S
ATOM	15260	C6	G	A	730	168.227	103.924	-52.766	1.00	67.59	A16S
ATOM	15261	O6	G	A	730	167.953	104.797	-53.603	1.00	67.59	A16S
ATOM	15262	C5	G	A	730	168.145	103.994	-51.358	1.00	67.59	A16S
ATOM	15263	N7	G	A	730	167.707	105.016	-50.534	1.00	67.59	A16S
ATOM	15264	C8	G	A	730	167.877	104.555	-49.327	1.00	67.59	A16S
ATOM	15265	C2*	G	A	730	170.323	102.318	-48.161	1.00	59.73	A16S
ATOM	15266	O2*	G	A	730	170.573	101.077	-47.529	1.00	59.73	A16S
ATOM	15267	C3*	G	A	730	170.782	103.539	-47.368	1.00	59.73	A16S
ATOM	15268	O3*	G	A	730	172.086	103.377	-46.820	1.00	59.73	A16S
ATOM	15269	P	G	A	731	173.185	104.544	-47.003	1.00	66.44	A16S
ATOM	15270	O1P	G	A	731	174.496	103.871	-46.865	1.00	64.41	A16S
ATOM	15271	O2P	G	A	731	172.871	105.688	-46.113	1.00	64.41	A16S
ATOM	15272	O5*	G	A	731	172.996	105.081	-48.499	1.00	66.44	A16S
ATOM	15273	C5*	G	A	731	173.336	104.270	-49.637	1.00	66.44	A16S
ATOM	15274	C4*	G	A	731	172.488	104.649	-50.837	1.00	66.44	A16S
ATOM	15275	O4*	G	A	731	171.242	105.256	-50.386	1.00	66.44	A16S
ATOM	15276	C1*	G	A	731	170.785	106.195	-51.353	1.00	66.44	A16S
ATOM	15277	N9	G	A	731	170.753	107.522	-50.744	1.00	64.41	A16S
ATOM	15278	C4	G	A	731	170.148	108.653	-51.247	1.00	64.41	A16S
ATOM	15279	N3	G	A	731	169.436	108.736	-52.389	1.00	64.41	A16S
ATOM	15280	C2	G	A	731	169.008	109.974	-52.617	1.00	64.41	A16S
ATOM	15281	N2	G	A	731	168.282	110.246	-53.710	1.00	64.41	A16S
ATOM	15282	N1	G	A	731	169.259	111.034	-51.790	1.00	64.41	A16S
ATOM	15283	C6	G	A	731	169.986	110.967	-50.606	1.00	64.41	A16S
ATOM	15284	O6	G	A	731	170.158	111.991	-49.922	1.00	64.41	A16S
ATOM	15285	C5	G	A	731	170.447	109.653	-50.352	1.00	64.41	A16S
ATOM	15286	N7	G	A	731	171.200	109.162	-49.298	1.00	64.41	A16S
ATOM	15287	C8	G	A	731	171.350	107.896	-49.569	1.00	64.41	A16S
ATOM	15288	C2*	G	A	731	171.768	106.153	-52.520	1.00	66.44	A16S
ATOM	15289	O2*	G	A	731	171.261	105.242	-53.478	1.00	66.44	A16S
ATOM	15290	C3*	G	A	731	173.041	105.656	-51.838	1.00	66.44	A16S
ATOM	15291	O3*	G	A	731	173.925	105.050	-52.779	1.00	66.44	A16S
ATOM	15292	P	C	A	732	174.989	105.960	-53.595	1.00	66.97	A16S
ATOM	15293	O1P	C	A	732	175.759	105.006	-54.435	1.00	57.19	A16S
ATOM	15294	O2P	C	A	732	175.733	106.891	-52.703	1.00	57.19	A16S
ATOM	15295	O5*	C	A	732	174.072	106.854	-54.537	1.00	66.97	A16S
ATOM	15296	C5*	C	A	732	173.175	106.247	-55.469	1.00	66.97	A16S
ATOM	15297	C4*	C	A	732	172.484	107.305	-56.281	1.00	66.97	A16S
ATOM	15298	O4*	C	A	732	171.564	108.045	-55.444	1.00	66.97	A16S
ATOM	15299	C1*	C	A	732	171.524	109.398	-55.864	1.00	66.97	A16S
ATOM	15300	N1	C	A	732	171.867	110.264	-54.721	1.00	57.19	A16S
ATOM	15301	C6	C	A	732	172.613	109.797	-53.684	1.00	57.19	A16S
ATOM	15302	C2	C	A	732	171.415	111.584	-54.716	1.00	57.19	A16S
ATOM	15303	O2	C	A	732	170.733	111.988	-55.653	1.00	57.19	A16S
ATOM	15304	N3	C	A	732	171.730	112.392	-53.691	1.00	57.19	A16S
ATOM	15305	C4	C	A	732	172.464	111.932	-52.691	1.00	57.19	A16S
ATOM	15306	N4	C	A	732	172.759	112.776	-51.707	1.00	57.19	A16S
ATOM	15307	C5	C	A	732	172.931	110.590	-52.658	1.00	57.19	A16S
ATOM	15308	C2*	C	A	732	172.462	109.548	-57.063	1.00	66.97	A16S
ATOM	15309	O2*	C	A	732	171.709	109.441	-58.256	1.00	66.97	A16S
ATOM	15310	C3*	C	A	732	173.403	108.363	-56.868	1.00	66.97	A16S
ATOM	15311	O3*	C	A	732	174.010	107.907	-58.076	1.00	66.97	A16S
ATOM	15312	P	A	A	733	175.525	108.324	-58.421	1.00	96.03	A16S
ATOM	15313	O1P	A	A	733	176.066	107.258	-59.301	1.00	72.15	A16S
ATOM	15314	O2P	A	A	733	176.263	108.704	-57.187	1.00	72.15	A16S
ATOM	15315	O5*	A	A	733	175.341	109.640	-59.286	1.00	96.03	A16S
ATOM	15316	C5*	A	A	733	176.450	110.244	-59.942	1.00	96.03	A16S



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ATOM	15317	C4*	A	A	733	176.177	111.700	-60.138	1.00	96.03	A16S
ATOM	15318	O4*	A	A	733	176.026	112.331	-58.863	1.00	96.03	A16S
ATOM	15319	C1*	A	A	733	176.168	113.706	-59.060	1.00	96.03	A16S
ATOM	15320	N9	A	A	733	176.651	114.347	-57.852	1.00	72.15	A16S
ATOM	15321	C4	A	A	733	176.486	115.684	-57.614	1.00	72.15	A16S
ATOM	15322	N3	A	A	733	175.920	116.583	-58.437	1.00	72.15	A16S
ATOM	15323	C2	A	A	733	175.882	117.779	-57.861	1.00	72.15	A16S
ATOM	15324	N1	A	A	733	176.316	118.152	-56.643	1.00	72.15	A16S
ATOM	15325	C6	A	A	733	176.890	117.220	-55.843	1.00	72.15	A16S
ATOM	15326	N6	A	A	733	177.328	117.590	-54.630	1.00	72.15	A16S
ATOM	15327	C5	A	A	733	176.989	115.905	-56.346	1.00	72.15	A16S
ATOM	15328	N7	A	A	733	177.499	114.726	-55.809	1.00	72.15	A16S
ATOM	15329	C8	A	A	733	177.282	113.836	-56.746	1.00	72.15	A16S
ATOM	15330	C2*	A	A	733	177.022	113.937	-60.301	1.00	96.03	A16S
ATOM	15331	O2*	A	A	733	176.240	114.772	-61.140	1.00	96.03	A16S
ATOM	15332	C3*	A	A	733	177.264	112.510	-60.818	1.00	96.03	A16S
ATOM	15333	O3*	A	A	733	176.953	112.492	-62.204	1.00	96.03	A16S
ATOM	15334	P	G	A	734	177.816	111.616	-63.225	1.00	72.07	A16S
ATOM	15335	O1P	G	A	734	176.828	110.811	-64.002	1.00	72.12	A16S
ATOM	15336	O2P	G	A	734	178.939	110.935	-62.518	1.00	72.12	A16S
ATOM	15337	O5*	G	A	734	178.383	112.705	-64.236	1.00	72.07	A16S
ATOM	15338	C5*	G	A	734	178.906	113.961	-63.771	1.00	72.07	A16S
ATOM	15339	C4*	G	A	734	179.485	114.726	-64.933	1.00	72.07	A16S
ATOM	15340	O4*	G	A	734	180.624	113.995	-65.449	1.00	72.07	A16S
ATOM	15341	C1*	G	A	734	180.553	113.911	-66.856	1.00	72.07	A16S
ATOM	15342	N9	G	A	734	180.277	112.515	-67.187	1.00	72.12	A16S
ATOM	15343	C4	G	A	734	180.130	111.959	-68.439	1.00	72.12	A16S
ATOM	15344	N3	G	A	734	180.218	112.610	-69.617	1.00	72.12	A16S
ATOM	15345	C2	G	A	734	180.046	111.798	-70.641	1.00	72.12	A16S
ATOM	15346	N2	G	A	734	180.119	112.275	-71.888	1.00	72.12	A16S
ATOM	15347	N1	G	A	734	179.791	110.455	-70.521	1.00	72.12	A16S
ATOM	15348	C6	G	A	734	179.681	109.762	-69.319	1.00	72.12	A16S
ATOM	15349	O6	G	A	734	179.425	108.537	-69.317	1.00	72.12	A16S
ATOM	15350	C5	G	A	734	179.882	110.619	-68.213	1.00	72.12	A16S
ATOM	15351	N7	G	A	734	179.875	110.341	-66.856	1.00	72.12	A16S
ATOM	15352	C8	G	A	734	180.114	111.489	-66.290	1.00	72.12	A16S
ATOM	15353	C2*	G	A	734	179.469	114.892	-67.299	1.00	72.07	A16S
ATOM	15354	O2*	G	A	734	180.065	116.166	-67.441	1.00	72.07	A16S
ATOM	15355	C3*	G	A	734	178.527	114.861	-66.104	1.00	72.07	A16S
ATOM	15356	O3*	G	A	734	177.759	116.057	-65.973	1.00	72.07	A16S
ATOM	15357	P	C	A	735	176.210	116.063	-66.403	1.00	75.05	A16S
ATOM	15358	O1P	C	A	735	175.692	117.434	-66.099	1.00	75.26	A16S
ATOM	15359	O2P	C	A	735	175.541	114.850	-65.821	1.00	75.26	A16S
ATOM	15360	O5*	C	A	735	176.256	115.879	-67.983	1.00	75.05	A16S
ATOM	15361	C5*	C	A	735	176.805	116.901	-68.838	1.00	75.05	A16S
ATOM	15362	C4*	C	A	735	176.774	116.434	-70.266	1.00	75.05	A16S
ATOM	15363	O4*	C	A	735	177.671	115.306	-70.412	1.00	75.05	A16S
ATOM	15364	C1*	C	A	735	177.121	114.371	-71.321	1.00	75.05	A16S
ATOM	15365	N1	C	A	735	176.931	113.079	-70.637	1.00	75.26	A16S
ATOM	15366	C6	C	A	735	176.868	112.993	-69.276	1.00	75.26	A16S
ATOM	15367	C2	C	A	735	176.796	111.924	-71.424	1.00	75.26	A16S
ATOM	15368	O2	C	A	735	176.895	112.022	-72.664	1.00	75.26	A16S
ATOM	15369	N3	C	A	735	176.574	110.738	-70.826	1.00	75.26	A16S
ATOM	15370	C4	C	A	735	176.509	110.667	-69.503	1.00	75.26	A16S
ATOM	15371	N4	C	A	735	176.296	109.472	-68.962	1.00	75.26	A16S
ATOM	15372	C5	C	A	735	176.663	111.818	-68.673	1.00	75.26	A16S
ATOM	15373	C2*	C	A	735	175.797	114.930	-71.833	1.00	75.05	A16S
ATOM	15374	O2*	C	A	735	176.011	115.510	-73.106	1.00	75.05	A16S
ATOM	15375	C3*	C	A	735	175.426	115.900	-70.716	1.00	75.05	A16S
ATOM	15376	O3*	C	A	735	174.536	116.939	-71.104	1.00	75.05	A16S
ATOM	15377	P	C	A	736	172.953	116.660	-71.117	1.00	79.07	A16S
ATOM	15378	O1P	C	A	736	172.294	117.934	-71.520	1.00	79.17	A16S
ATOM	15379	O2P	C	A	736	172.567	116.002	-69.841	1.00	79.17	A16S
ATOM	15380	O5*	C	A	736	172.777	115.580	-72.273	1.00	79.07	A16S
ATOM	15381	C5*	C	A	736	173.205	115.873	-73.607	1.00	79.07	A16S
ATOM	15382	C4*	C	A	736	172.837	114.743	-74.521	1.00	79.07	A16S
ATOM	15383	O4*	C	A	736	173.703	113.603	-74.303	1.00	79.07	A16S
ATOM	15384	C1*	C	A	736	172.967	112.405	-74.496	1.00	79.07	A16S
ATOM	15385	N1	C	A	736	173.008	111.621	-73.256	1.00	79.17	A16S
ATOM	15386	C6	C	A	736	173.213	112.229	-72.045	1.00	79.17	A16S
ATOM	15387	C2	C	A	736	172.818	110.231	-73.327	1.00	79.17	A16S
ATOM	15388	O2	C	A	736	172.648	109.705	-74.428	1.00	79.17	A16S
ATOM	15389	N3	C	A	736	172.825	109.500	-72.189	1.00	79.17	A16S
ATOM	15390	C4	C	A	736	173.015	110.104	-71.011	1.00	79.17	A16S
ATOM	15391	N4	C	A	736	173.004	109.347	-69.914	1.00	79.17	A16S
ATOM	15392	C5	C	A	736	173.224	111.517	-70.908	1.00	79.17	A16S
ATOM	15393	C2*	C	A	736	171.535	112.788	-74.863	1.00	79.07	A16S



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ATOM	15394	O2*	C	A	736	171.372	112.723	-76.265	1.00	79.07	A16S
ATOM	15395	C3*	C	A	736	171.445	114.200	-74.296	1.00	79.07	A16S
ATOM	15396	O3*	C	A	736	170.471	115.013	-74.915	1.00	79.07	A16S
ATOM	15397	P	A	A	737	168.991	115.068	-74.301	1.00	75.51	A16S
ATOM	15398	O1P	A	A	737	168.327	116.284	-74.880	1.00	74.35	A16S
ATOM	15399	O2P	A	A	737	169.112	114.931	-72.817	1.00	74.35	A16S
ATOM	15400	O5*	A	A	737	168.316	113.745	-74.874	1.00	75.51	A16S
ATOM	15401	C5*	A	A	737	168.182	113.562	-76.278	1.00	75.51	A16S
ATOM	15402	C4*	A	A	737	167.899	112.124	-76.583	1.00	75.51	A16S
ATOM	15403	O4*	A	A	737	169.014	111.310	-76.146	1.00	75.51	A16S
ATOM	15404	C1*	A	A	737	168.542	110.025	-75.768	1.00	75.51	A16S
ATOM	15405	N9	A	A	737	168.922	109.768	-74.377	1.00	74.35	A16S
ATOM	15406	C4	A	A	737	168.902	108.549	-73.732	1.00	74.35	A16S
ATOM	15407	N3	A	A	737	168.552	107.356	-74.241	1.00	74.35	A16S
ATOM	15408	C2	A	A	737	168.639	106.403	-73.315	1.00	74.35	A16S
ATOM	15409	N1	A	A	737	169.006	106.502	-72.033	1.00	74.35	A16S
ATOM	15410	C6	A	A	737	169.347	107.720	-71.556	1.00	74.35	A16S
ATOM	15411	N6	A	A	737	169.702	107.837	-70.279	1.00	74.35	A16S
ATOM	15412	C5	A	A	737	169.303	108.805	-72.436	1.00	74.35	A16S
ATOM	15413	N7	A	A	737	169.586	110.150	-72.264	1.00	74.35	A16S
ATOM	15414	C8	A	A	737	169.347	110.677	-73.443	1.00	74.35	A16S
ATOM	15415	C2*	A	A	737	167.022	110.024	-75.936	1.00	75.51	A16S
ATOM	15416	O2*	A	A	737	166.671	109.456	-77.183	1.00	75.51	A16S
ATOM	15417	C3*	A	A	737	166.711	111.509	-75.869	1.00	75.51	A16S
ATOM	15418	O3*	A	A	737	165.471	111.818	-76.480	1.00	75.51	A16S
ATOM	15419	P	C	A	738	164.139	111.881	-75.573	1.00	75.43	A16S
ATOM	15420	O1P	C	A	738	163.091	112.516	-76.422	1.00	76.94	A16S
ATOM	15421	O2P	C	A	738	164.477	112.489	-74.256	1.00	76.94	A16S
ATOM	15422	O5*	C	A	738	163.761	110.349	-75.337	1.00	75.43	A16S
ATOM	15423	C5*	C	A	738	163.316	109.560	-76.438	1.00	75.43	A16S
ATOM	15424	C4*	C	A	738	163.256	108.108	-76.067	1.00	75.43	A16S
ATOM	15425	O4*	C	A	738	164.561	107.668	-75.627	1.00	75.43	A16S
ATOM	15426	C1*	C	A	738	164.412	106.700	-74.600	1.00	75.43	A16S
ATOM	15427	N1	C	A	738	165.003	107.248	-73.357	1.00	76.94	A16S
ATOM	15428	C6	C	A	738	165.159	108.598	-73.180	1.00	76.94	A16S
ATOM	15429	C2	C	A	738	165.394	106.358	-72.355	1.00	76.94	A16S
ATOM	15430	O2	C	A	738	165.248	105.136	-72.549	1.00	76.94	A16S
ATOM	15431	N3	C	A	738	165.920	106.848	-71.208	1.00	76.94	A16S
ATOM	15432	C4	C	A	738	166.066	108.163	-71.050	1.00	76.94	A16S
ATOM	15433	N4	C	A	738	166.595	108.598	-69.912	1.00	76.94	A16S
ATOM	15434	C5	C	A	738	165.680	109.090	-72.054	1.00	76.94	A16S
ATOM	15435	C2*	C	A	738	162.915	106.431	-74.438	1.00	75.43	A16S
ATOM	15436	O2*	C	A	738	162.512	105.334	-75.240	1.00	75.43	A16S
ATOM	15437	C3*	C	A	738	162.332	107.748	-74.923	1.00	75.43	A16S
ATOM	15438	O3*	C	A	738	160.994	107.618	-75.347	1.00	75.43	A16S
ATOM	15439	P	C	A	739	159.823	108.204	-74.421	1.00	82.06	A16S
ATOM	15440	O1P	C	A	739	158.538	108.155	-75.185	1.00	79.23	A16S
ATOM	15441	O2P	C	A	739	160.308	109.502	-73.868	1.00	79.23	A16S
ATOM	15442	O5*	C	A	739	159.714	107.117	-73.263	1.00	82.06	A16S
ATOM	15443	C5*	C	A	739	159.450	105.748	-73.600	1.00	82.06	A16S
ATOM	15444	C4*	C	A	739	159.791	104.837	-72.448	1.00	82.06	A16S
ATOM	15445	O4*	C	A	739	161.213	104.876	-72.172	1.00	82.06	A16S
ATOM	15446	C1*	C	A	739	161.427	104.686	-70.786	1.00	82.06	A16S
ATOM	15447	N1	C	A	739	162.041	105.904	-70.226	1.00	79.23	A16S
ATOM	15448	C6	C	A	739	162.080	107.077	-70.928	1.00	79.23	A16S
ATOM	15449	C2	C	A	739	162.590	105.835	-68.947	1.00	79.23	A16S
ATOM	15450	O2	C	A	739	162.529	104.754	-68.331	1.00	79.23	A16S
ATOM	15451	N3	C	A	739	163.169	106.937	-68.413	1.00	79.23	A16S
ATOM	15452	C4	C	A	739	163.211	108.071	-69.108	1.00	79.23	A16S
ATOM	15453	N4	C	A	739	163.798	109.123	-68.546	1.00	79.23	A16S
ATOM	15454	C5	C	A	739	162.653	108.174	-70.412	1.00	79.23	A16S
ATOM	15455	C2*	C	A	739	160.067	104.438	-70.149	1.00	82.06	A16S
ATOM	15456	O2*	C	A	739	159.804	103.050	-70.142	1.00	82.06	A16S
ATOM	15457	C3*	C	A	739	159.163	105.171	-71.115	1.00	82.06	A16S
ATOM	15458	O3*	C	A	739	157.828	104.757	-71.024	1.00	82.06	A16S
ATOM	15459	P	U	A	740	156.747	105.789	-70.455	1.00	87.81	A16S
ATOM	15460	O1P	U	A	740	155.412	105.151	-70.674	1.00	71.10	A16S
ATOM	15461	O2P	U	A	740	157.039	107.139	-71.030	1.00	71.10	A16S
ATOM	15462	O5*	U	A	740	157.085	105.881	-68.897	1.00	87.81	A16S
ATOM	15463	C5*	U	A	740	157.016	104.712	-68.060	1.00	87.81	A16S
ATOM	15464	C4*	U	A	740	157.616	104.979	-66.693	1.00	87.81	A16S
ATOM	15465	O4*	U	A	740	159.047	105.212	-66.795	1.00	87.81	A16S
ATOM	15466	C1*	U	A	740	159.467	106.033	-65.719	1.00	87.81	A16S
ATOM	15467	N1	U	A	740	160.071	107.271	-66.232	1.00	71.10	A16S
ATOM	15468	C6	U	A	740	159.831	107.743	-67.500	1.00	71.10	A16S
ATOM	15469	C2	U	A	740	160.882	107.966	-65.362	1.00	71.10	A16S
ATOM	15470	O2	U	A	740	161.143	107.563	-64.246	1.00	71.10	A16S



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ATOM	15471	N3	U	A	740	161.381	109.147	-65.844	1.00	71.10	A16S
ATOM	15472	C4	U	A	740	161.169	109.688	-67.087	1.00	71.10	A16S
ATOM	15473	O4	U	A	740	161.699	110.764	-67.375	1.00	71.10	A16S
ATOM	15474	C5	U	A	740	160.337	108.897	-67.945	1.00	71.10	A16S
ATOM	15475	C2*	U	A	740	158.235	106.373	-64.890	1.00	87.81	A16S
ATOM	15476	O2*	U	A	740	158.159	105.469	-63.810	1.00	87.81	A16S
ATOM	15477	C3*	U	A	740	157.117	106.175	-65.903	1.00	87.81	A16S
ATOM	15478	O3*	U	A	740	155.876	105.967	-65.254	1.00	87.81	A16S
ATOM	15479	P	G	A	741	155.149	107.213	-64.538	1.00	72.69	A16S
ATOM	15480	O1P	G	A	741	153.719	106.865	-64.384	1.00	72.11	A16S
ATOM	15481	O2P	G	A	741	155.528	108.470	-65.244	1.00	72.11	A16S
ATOM	15482	O5*	G	A	741	155.794	107.235	-63.081	1.00	72.69	A16S
ATOM	15483	C5*	G	A	741	155.759	106.053	-62.257	1.00	72.69	A16S
ATOM	15484	C4*	G	A	741	156.364	106.324	-60.902	1.00	72.69	A16S
ATOM	15485	O4*	G	A	741	157.805	106.511	-61.004	1.00	72.69	A16S
ATOM	15486	C1*	G	A	741	158.235	107.439	-60.014	1.00	72.69	A16S
ATOM	15487	N9	G	A	741	158.756	108.639	-60.662	1.00	72.11	A16S
ATOM	15488	C4	G	A	741	159.502	109.619	-60.059	1.00	72.11	A16S
ATOM	15489	N3	G	A	741	159.950	109.601	-58.788	1.00	72.11	A16S
ATOM	15490	C2	G	A	741	160.586	110.721	-58.475	1.00	72.11	A16S
ATOM	15491	N2	G	A	741	161.086	110.881	-57.238	1.00	72.11	A16S
ATOM	15492	N1	G	A	741	160.771	111.769	-59.350	1.00	72.11	A16S
ATOM	15493	C6	G	A	741	160.315	111.799	-60.665	1.00	72.11	A16S
ATOM	15494	O6	G	A	741	160.518	112.792	-61.368	1.00	72.11	A16S
ATOM	15495	C5	G	A	741	159.638	110.612	-61.008	1.00	72.11	A16S
ATOM	15496	N7	G	A	741	159.037	110.241	-62.198	1.00	72.11	A16S
ATOM	15497	C8	G	A	741	158.540	109.059	-61.953	1.00	72.11	A16S
ATOM	15498	C2*	G	A	741	157.001	107.848	-59.206	1.00	72.69	A16S
ATOM	15499	O2*	G	A	741	156.939	107.087	-58.014	1.00	72.69	A16S
ATOM	15500	C3*	G	A	741	155.875	107.576	-60.200	1.00	72.69	A16S
ATOM	15501	O3*	G	A	741	154.596	107.436	-59.599	1.00	72.69	A16S
ATOM	15502	P	G	A	742	153.670	108.741	-59.409	1.00	82.26	A16S
ATOM	15503	O1P	G	A	742	152.340	108.275	-58.926	1.00	75.38	A16S
ATOM	15504	O2P	G	A	742	153.751	109.564	-60.642	1.00	75.38	A16S
ATOM	15505	O5*	G	A	742	154.406	109.559	-58.253	1.00	82.26	A16S
ATOM	15506	C5*	G	A	742	154.729	108.917	-57.009	1.00	82.26	A16S
ATOM	15507	C4*	G	A	742	155.693	109.750	-56.196	1.00	82.26	A16S
ATOM	15508	O4*	G	A	742	156.935	109.921	-56.921	1.00	82.26	A16S
ATOM	15509	C1*	G	A	742	157.488	111.192	-56.626	1.00	82.26	A16S
ATOM	15510	N9	G	A	742	157.500	111.963	-57.859	1.00	75.38	A16S
ATOM	15511	C4	G	A	742	158.115	113.171	-58.078	1.00	75.38	A16S
ATOM	15512	N3	G	A	742	158.842	113.871	-57.181	1.00	75.38	A16S
ATOM	15513	C2	G	A	742	159.288	115.014	-57.688	1.00	75.38	A16S
ATOM	15514	N2	G	A	742	160.010	115.855	-56.934	1.00	75.38	A16S
ATOM	15515	N1	G	A	742	159.050	115.420	-58.972	1.00	75.38	A16S
ATOM	15516	C6	G	A	742	158.306	114.709	-59.910	1.00	75.38	A16S
ATOM	15517	O6	G	A	742	158.143	115.167	-61.052	1.00	75.38	A16S
ATOM	15518	C5	G	A	742	157.817	113.498	-59.378	1.00	75.38	A16S
ATOM	15519	N7	G	A	742	157.040	112.516	-59.968	1.00	75.38	A16S
ATOM	15520	C8	G	A	742	156.879	111.626	-59.031	1.00	75.38	A16S
ATOM	15521	C2*	G	A	742	156.591	111.857	-55.583	1.00	82.26	A16S
ATOM	15522	O2*	G	A	742	157.113	111.619	-54.283	1.00	82.26	A16S
ATOM	15523	C3*	G	A	742	155.259	111.163	-55.845	1.00	82.26	A16S
ATOM	15524	O3*	G	A	742	154.411	111.194	-54.706	1.00	82.26	A16S
ATOM	15525	P	U	A	743	153.259	112.309	-54.609	1.00	79.46	A16S
ATOM	15526	O1P	U	A	743	152.657	112.142	-53.260	1.00	96.37	A16S
ATOM	15527	O2P	U	A	743	152.388	112.261	-55.826	1.00	96.37	A16S
ATOM	15528	O5*	U	A	743	154.055	113.687	-54.649	1.00	79.46	A16S
ATOM	15529	C5*	U	A	743	155.025	113.994	-53.645	1.00	79.46	A16S
ATOM	15530	C4*	U	A	743	155.724	115.280	-53.984	1.00	79.46	A16S
ATOM	15531	O4*	U	A	743	156.482	115.111	-55.205	1.00	79.46	A16S
ATOM	15532	C1*	U	A	743	156.484	116.325	-55.935	1.00	79.46	A16S
ATOM	15533	N1	U	A	743	155.852	116.092	-57.237	1.00	96.37	A16S
ATOM	15534	C6	U	A	743	155.070	114.982	-57.473	1.00	96.37	A16S
ATOM	15535	C2	U	A	743	156.059	117.046	-58.218	1.00	96.37	A16S
ATOM	15536	O2	U	A	743	156.758	118.042	-58.047	1.00	96.37	A16S
ATOM	15537	N3	U	A	743	155.418	116.796	-59.404	1.00	96.37	A16S
ATOM	15538	C4	U	A	743	154.614	115.715	-59.701	1.00	96.37	A16S
ATOM	15539	O4	U	A	743	154.078	115.650	-60.807	1.00	96.37	A16S
ATOM	15540	C5	U	A	743	154.462	114.768	-58.636	1.00	96.37	A16S
ATOM	15541	C2*	U	A	743	155.689	117.353	-55.139	1.00	79.46	A16S
ATOM	15542	O2*	U	A	743	156.585	118.169	-54.420	1.00	79.46	A16S
ATOM	15543	C3*	U	A	743	154.813	116.455	-54.277	1.00	79.46	A16S
ATOM	15544	O3*	U	A	743	154.379	117.084	-53.092	1.00	79.46	A16S
ATOM	15545	P	C	A	744	153.041	117.967	-53.111	1.00	80.00	A16S
ATOM	15546	O1P	C	A	744	152.681	118.118	-51.672	1.00	78.25	A16S
ATOM	15547	O2P	C	A	744	152.050	117.389	-54.066	1.00	78.25	A16S



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ATOM	15548	O5*	C	A	744	153.527	119.373	-53.679	1.00	80.00	A16S
ATOM	15549	C5*	C	A	744	154.466	120.159	-52.939	1.00	80.00	A16S
ATOM	15550	C4*	C	A	744	154.895	121.354	-53.740	1.00	80.00	A16S
ATOM	15551	O4*	C	A	744	155.596	120.912	-54.929	1.00	80.00	A16S
ATOM	15552	C1*	C	A	744	155.328	121.801	-56.001	1.00	80.00	A16S
ATOM	15553	N1	C	A	744	154.626	121.052	-57.053	1.00	78.25	A16S
ATOM	15554	C6	C	A	744	154.085	119.821	-56.792	1.00	78.25	A16S
ATOM	15555	C2	C	A	744	154.498	121.625	-58.330	1.00	78.25	A16S
ATOM	15556	O2	C	A	744	155.022	122.739	-58.550	1.00	78.25	A16S
ATOM	15557	N3	C	A	744	153.809	120.948	-59.287	1.00	78.25	A16S
ATOM	15558	C4	C	A	744	153.275	119.754	-59.007	1.00	78.25	A16S
ATOM	15559	N4	C	A	744	152.600	119.131	-59.961	1.00	78.25	A16S
ATOM	15560	C5	C	A	744	153.411	119.146	-57.730	1.00	78.25	A16S
ATOM	15561	C2*	C	A	744	154.453	122.927	-55.454	1.00	80.00	A16S
ATOM	15562	O2*	C	A	744	155.273	124.025	-55.084	1.00	80.00	A16S
ATOM	15563	C3*	C	A	744	153.784	122.239	-54.269	1.00	80.00	A16S
ATOM	15564	O3*	C	A	744	153.319	123.157	-53.293	1.00	80.00	A16S
ATOM	15565	P	C	A	745	151.806	123.694	-53.371	1.00	81.85	A16S
ATOM	15566	O1P	C	A	745	151.507	124.271	-52.039	1.00	70.75	A16S
ATOM	15567	O2P	C	A	745	150.934	122.616	-53.912	1.00	70.75	A16S
ATOM	15568	O5*	C	A	745	151.867	124.846	-54.472	1.00	81.85	A16S
ATOM	15569	C5*	C	A	745	152.664	126.031	-54.272	1.00	81.85	A16S
ATOM	15570	C4*	C	A	745	152.680	126.864	-55.532	1.00	81.85	A16S
ATOM	15571	O4*	C	A	745	153.289	126.086	-56.586	1.00	81.85	A16S
ATOM	15572	C1*	C	A	745	152.619	126.324	-57.814	1.00	81.85	A16S
ATOM	15573	N1	C	A	745	151.992	125.066	-58.242	1.00	70.75	A16S
ATOM	15574	C6	C	A	745	151.861	124.015	-57.376	1.00	70.75	A16S
ATOM	15575	C2	C	A	745	151.537	124.962	-59.553	1.00	70.75	A16S
ATOM	15576	O2	C	A	745	151.642	125.951	-60.302	1.00	70.75	A16S
ATOM	15577	N3	C	A	745	150.987	123.796	-59.967	1.00	70.75	A16S
ATOM	15578	C4	C	A	745	150.869	122.775	-59.112	1.00	70.75	A16S
ATOM	15579	N4	C	A	745	150.315	121.646	-59.549	1.00	70.75	A16S
ATOM	15580	C5	C	A	745	151.312	122.865	-57.765	1.00	70.75	A16S
ATOM	15581	C2*	C	A	745	151.579	127.409	-57.576	1.00	81.85	A16S
ATOM	15582	O2*	C	A	745	152.142	128.659	-57.906	1.00	81.85	A16S
ATOM	15583	C3*	C	A	745	151.314	127.235	-56.090	1.00	81.85	A16S
ATOM	15584	O3*	C	A	745	150.798	128.411	-55.501	1.00	81.85	A16S
ATOM	15585	P	A	A	746	149.212	128.567	-55.323	1.00	86.71	A16S
ATOM	15586	O1P	A	A	746	149.041	129.577	-54.246	1.00	75.20	A16S
ATOM	15587	O2P	A	A	746	148.588	127.219	-55.187	1.00	75.20	A16S
ATOM	15588	O5*	A	A	746	148.726	129.156	-56.718	1.00	86.71	A16S
ATOM	15589	C5*	A	A	746	149.329	130.326	-57.277	1.00	86.71	A16S
ATOM	15590	C4*	A	A	746	148.875	130.487	-58.696	1.00	86.71	A16S
ATOM	15591	O4*	A	A	746	149.396	129.391	-59.484	1.00	86.71	A16S
ATOM	15592	C1*	A	A	746	148.416	128.946	-60.406	1.00	86.71	A16S
ATOM	15593	N9	A	A	746	148.107	127.544	-60.106	1.00	75.20	A16S
ATOM	15594	C4	A	A	746	147.521	126.631	-60.953	1.00	75.20	A16S
ATOM	15595	N3	A	A	746	147.079	126.843	-62.203	1.00	75.20	A16S
ATOM	15596	C2	A	A	746	146.588	125.721	-62.723	1.00	75.20	A16S
ATOM	15597	N1	A	A	746	146.506	124.503	-62.182	1.00	75.20	A16S
ATOM	15598	C6	A	A	746	146.970	124.323	-60.928	1.00	75.20	A16S
ATOM	15599	N6	A	A	746	146.921	123.102	-60.397	1.00	75.20	A16S
ATOM	15600	C5	A	A	746	147.494	125.436	-60.259	1.00	75.20	A16S
ATOM	15601	N7	A	A	746	148.022	125.592	-58.987	1.00	75.20	A16S
ATOM	15602	C8	A	A	746	148.364	126.857	-58.941	1.00	75.20	A16S
ATOM	15603	C2*	A	A	746	147.217	129.879	-60.278	1.00	86.71	A16S
ATOM	15604	O2*	A	A	746	147.352	130.920	-61.226	1.00	86.71	A16S
ATOM	15605	C3*	A	A	746	147.375	130.372	-58.850	1.00	86.71	A16S
ATOM	15606	O3*	A	A	746	146.737	131.604	-58.600	1.00	86.71	A16S
ATOM	15607	P	C	A	747	145.224	131.606	-58.067	1.00	97.02	A16S
ATOM	15608	O1P	C	A	747	144.823	133.031	-57.969	1.00	91.92	A16S
ATOM	15609	O2P	C	A	747	145.114	130.724	-56.862	1.00	91.92	A16S
ATOM	15610	O5*	C	A	747	144.416	130.950	-59.275	1.00	97.02	A16S
ATOM	15611	C5*	C	A	747	144.360	131.607	-60.549	1.00	97.02	A16S
ATOM	15612	C4*	C	A	747	143.396	130.899	-61.459	1.00	97.02	A16S
ATOM	15613	O4*	C	A	747	143.956	129.635	-61.892	1.00	97.02	A16S
ATOM	15614	C1*	C	A	747	142.918	128.679	-62.049	1.00	97.02	A16S
ATOM	15615	N1	C	A	747	143.227	127.503	-61.203	1.00	91.92	A16S
ATOM	15616	C6	C	A	747	143.779	127.665	-59.963	1.00	91.92	A16S
ATOM	15617	C2	C	A	747	142.951	126.208	-61.693	1.00	91.92	A16S
ATOM	15618	O2	C	A	747	142.444	126.076	-62.815	1.00	91.92	A16S
ATOM	15619	N3	C	A	747	143.246	125.140	-60.927	1.00	91.92	A16S
ATOM	15620	C4	C	A	747	143.792	125.315	-59.723	1.00	91.92	A16S
ATOM	15621	N4	C	A	747	144.072	124.233	-59.002	1.00	91.92	A16S
ATOM	15622	C5	C	A	747	144.076	126.611	-59.200	1.00	91.92	A16S
ATOM	15623	C2*	C	A	747	141.590	129.372	-61.717	1.00	97.02	A16S
ATOM	15624	O2*	C	A	747	140.967	129.779	-62.924	1.00	97.02	A16S



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ATOM	15625	C3*	C	A	747	142.055	130.539	-60.846	1.00	97.02	A16S
ATOM	15626	O3*	C	A	747	141.166	131.647	-60.858	1.00	97.02	A16S
ATOM	15627	P	C	A	748	139.930	131.677	-59.838	1.00	126.82	A16S
ATOM	15628	O1P	C	A	748	139.280	133.001	-59.935	1.00	104.25	A16S
ATOM	15629	O2P	C	A	748	140.391	131.197	-58.518	1.00	104.25	A16S
ATOM	15630	O5*	C	A	748	138.933	130.602	-60.457	1.00	126.82	A16S
ATOM	15631	C5*	C	A	748	137.831	130.112	-59.692	1.00	126.82	A16S
ATOM	15632	C4*	C	A	748	137.887	128.614	-59.609	1.00	126.82	A16S
ATOM	15633	O4*	C	A	748	139.270	128.198	-59.547	1.00	126.82	A16S
ATOM	15634	C1*	C	A	748	139.399	127.104	-58.661	1.00	126.82	A16S
ATOM	15635	N1	C	A	748	140.528	127.358	-57.741	1.00	104.25	A16S
ATOM	15636	C6	C	A	748	140.863	128.630	-57.372	1.00	104.25	A16S
ATOM	15637	C2	C	A	748	141.291	126.266	-57.277	1.00	104.25	A16S
ATOM	15638	O2	C	A	748	140.935	125.107	-57.567	1.00	104.25	A16S
ATOM	15639	N3	C	A	748	142.392	126.504	-56.520	1.00	104.25	A16S
ATOM	15640	C4	C	A	748	142.727	127.756	-56.203	1.00	104.25	A16S
ATOM	15641	N4	C	A	748	143.834	127.946	-55.484	1.00	104.25	A16S
ATOM	15642	C5	C	A	748	141.946	128.871	-56.616	1.00	104.25	A16S
ATOM	15643	C2*	C	A	748	138.028	126.777	-58.062	1.00	126.82	A16S
ATOM	15644	O2*	C	A	748	137.547	125.608	-58.686	1.00	126.82	A16S
ATOM	15645	C3*	C	A	748	137.238	128.055	-58.355	1.00	126.82	A16S
ATOM	15646	O3*	C	A	748	135.799	128.011	-58.481	1.00	126.82	A16S
ATOM	15647	P	C	A	749	135.040	126.774	-59.206	1.00	85.94	A16S
ATOM	15648	O1P	C	A	749	133.692	127.323	-59.474	1.00	86.01	A16S
ATOM	15649	O2P	C	A	749	135.158	125.510	-58.418	1.00	86.01	A16S
ATOM	15650	O5*	C	A	749	135.772	126.587	-60.614	1.00	85.94	A16S
ATOM	15651	C5*	C	A	749	135.030	126.667	-61.845	1.00	85.94	A16S
ATOM	15652	C4*	C	A	749	135.144	125.378	-62.632	1.00	85.94	A16S
ATOM	15653	O4*	C	A	749	136.511	125.197	-63.085	1.00	85.94	A16S
ATOM	15654	C1*	C	A	749	136.819	123.811	-63.153	1.00	85.94	A16S
ATOM	15655	N1	C	A	749	137.970	123.538	-62.254	1.00	86.01	A16S
ATOM	15656	C6	C	A	749	138.569	124.550	-61.555	1.00	86.01	A16S
ATOM	15657	C2	C	A	749	138.425	122.207	-62.097	1.00	86.01	A16S
ATOM	15658	O2	C	A	749	137.925	121.299	-62.795	1.00	86.01	A16S
ATOM	15659	N3	C	A	749	139.401	121.951	-61.196	1.00	86.01	A16S
ATOM	15660	C4	C	A	749	139.940	122.948	-60.491	1.00	86.01	A16S
ATOM	15661	N4	C	A	749	140.871	122.640	-59.585	1.00	86.01	A16S
ATOM	15662	C5	C	A	749	139.545	124.302	-60.675	1.00	86.01	A16S
ATOM	15663	C2*	C	A	749	135.552	123.040	-62.753	1.00	85.94	A16S
ATOM	15664	O2*	C	A	749	134.843	122.601	-63.901	1.00	85.94	A16S
ATOM	15665	C3*	C	A	749	134.797	124.077	-61.925	1.00	85.94	A16S
ATOM	15666	O3*	C	A	749	133.402	123.810	-61.927	1.00	85.94	A16S
ATOM	15667	P	G	A	750	132.777	122.787	-60.848	1.00	84.72	A16S
ATOM	15668	O1P	G	A	750	131.297	122.802	-61.034	1.00	79.76	A16S
ATOM	15669	O2P	G	A	750	133.361	123.120	-59.512	1.00	79.76	A16S
ATOM	15670	O5*	G	A	750	133.295	121.344	-61.285	1.00	84.72	A16S
ATOM	15671	C5*	G	A	750	132.702	120.640	-62.389	1.00	84.72	A16S
ATOM	15672	C4*	G	A	750	133.174	119.204	-62.401	1.00	84.72	A16S
ATOM	15673	O4*	G	A	750	134.627	119.204	-62.377	1.00	84.72	A16S
ATOM	15674	C1*	G	A	750	135.097	118.154	-61.543	1.00	84.72	A16S
ATOM	15675	N9	G	A	750	135.796	118.751	-60.402	1.00	79.76	A16S
ATOM	15676	C4	G	A	750	136.374	118.085	-59.340	1.00	79.76	A16S
ATOM	15677	N3	G	A	750	136.385	116.748	-59.146	1.00	79.76	A16S
ATOM	15678	C2	G	A	750	137.041	116.411	-58.046	1.00	79.76	A16S
ATOM	15679	N2	G	A	750	137.154	115.125	-57.706	1.00	79.76	A16S
ATOM	15680	N1	G	A	750	137.633	117.309	-57.201	1.00	79.76	A16S
ATOM	15681	C6	G	A	750	137.625	118.690	-57.374	1.00	79.76	A16S
ATOM	15682	O6	G	A	750	138.182	119.419	-56.543	1.00	79.76	A16S
ATOM	15683	C5	G	A	750	136.929	119.067	-58.552	1.00	79.76	A16S
ATOM	15684	N7	G	A	750	136.692	120.324	-59.090	1.00	79.76	A16S
ATOM	15685	C8	G	A	750	136.017	120.089	-60.179	1.00	79.76	A16S
ATOM	15686	C2*	G	A	750	133.882	117.325	-61.129	1.00	84.72	A16S
ATOM	15687	O2*	G	A	750	133.677	116.281	-62.061	1.00	84.72	A16S
ATOM	15688	C3*	G	A	750	132.775	118.362	-61.195	1.00	84.72	A16S
ATOM	15689	O3*	G	A	750	131.512	117.736	-61.346	1.00	84.72	A16S
ATOM	15690	P	U	A	751	130.588	117.505	-60.053	1.00	83.36	A16S
ATOM	15691	O1P	U	A	751	129.220	117.116	-60.501	1.00	59.54	A16S
ATOM	15692	O2P	U	A	751	130.769	118.710	-59.194	1.00	59.54	A16S
ATOM	15693	O5*	U	A	751	131.229	116.250	-59.305	1.00	83.36	A16S
ATOM	15694	C5*	U	A	751	131.161	114.937	-59.879	1.00	83.36	A16S
ATOM	15695	C4*	U	A	751	131.870	113.930	-58.997	1.00	83.36	A16S
ATOM	15696	O4*	U	A	751	133.253	114.316	-58.795	1.00	83.36	A16S
ATOM	15697	C1*	U	A	751	133.683	113.891	-57.515	1.00	83.36	A16S
ATOM	15698	N1	U	A	751	134.152	115.064	-56.762	1.00	59.54	A16S
ATOM	15699	C6	U	A	751	133.815	116.340	-57.136	1.00	59.54	A16S
ATOM	15700	C2	U	A	751	134.963	114.842	-55.655	1.00	59.54	A16S
ATOM	15701	O2	U	A	751	135.264	113.722	-55.263	1.00	59.54	A16S



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ATOM	15702	N3	U	A	751	135.404	115.978	-55.018	1.00	59.54	A16S
ATOM	15703	C4	U	A	751	135.110	117.276	-55.353	1.00	59.54	A16S
ATOM	15704	O4	U	A	751	135.594	118.186	-54.697	1.00	59.54	A16S
ATOM	15705	C5	U	A	751	134.252	117.424	-56.486	1.00	59.54	A16S
ATOM	15706	C2*	U	A	751	132.518	113.166	-56.843	1.00	83.36	A16S
ATOM	15707	O2*	U	A	751	132.661	111.769	-57.042	1.00	83.36	A16S
ATOM	15708	C3*	U	A	751	131.323	113.734	-57.595	1.00	83.36	A16S
ATOM	15709	O3*	U	A	751	130.278	112.783	-57.615	1.00	83.36	A16S
ATOM	15710	P	G	A	752	128.973	113.020	-56.719	1.00	66.00	A16S
ATOM	15711	O1P	G	A	752	128.128	111.794	-56.874	1.00	77.41	A16S
ATOM	15712	O2P	G	A	752	128.426	114.358	-57.100	1.00	77.41	A16S
ATOM	15713	O5*	G	A	752	129.523	113.089	-55.224	1.00	66.00	A16S
ATOM	15714	C5*	G	A	752	130.305	112.017	-54.674	1.00	66.00	A16S
ATOM	15715	C4*	G	A	752	130.972	112.477	-53.409	1.00	66.00	A16S
ATOM	15716	O4*	G	A	752	131.681	113.715	-53.690	1.00	66.00	A16S
ATOM	15717	C1*	G	A	752	131.275	114.708	-52.781	1.00	66.00	A16S
ATOM	15718	N9	G	A	752	131.305	115.989	-53.458	1.00	77.41	A16S
ATOM	15719	C4	G	A	752	132.125	117.041	-53.163	1.00	77.41	A16S
ATOM	15720	N3	G	A	752	133.070	117.064	-52.207	1.00	77.41	A16S
ATOM	15721	C2	G	A	752	133.683	118.232	-52.152	1.00	77.41	A16S
ATOM	15722	N2	G	A	752	134.661	118.444	-51.260	1.00	77.41	A16S
ATOM	15723	N1	G	A	752	133.386	119.282	-52.970	1.00	77.41	A16S
ATOM	15724	C6	G	A	752	132.424	119.268	-53.967	1.00	77.41	A16S
ATOM	15725	O6	G	A	752	132.244	120.266	-54.661	1.00	77.41	A16S
ATOM	15726	C5	G	A	752	131.766	118.037	-54.034	1.00	77.41	A16S
ATOM	15727	N7	G	A	752	130.755	117.614	-54.876	1.00	77.41	A16S
ATOM	15728	C8	G	A	752	130.517	116.390	-54.500	1.00	77.41	A16S
ATOM	15729	C2*	G	A	752	129.887	114.296	-52.319	1.00	66.00	A16S
ATOM	15730	O2*	G	A	752	129.576	114.926	-51.099	1.00	66.00	A16S
ATOM	15731	C3*	G	A	752	130.043	112.782	-52.242	1.00	66.00	A16S
ATOM	15732	O3*	G	A	752	130.760	112.463	-51.058	1.00	66.00	A16S
ATOM	15733	P	A	A	753	130.043	111.669	-49.862	1.00	66.96	A16S
ATOM	15734	O1P	A	A	753	129.632	110.337	-50.386	1.00	64.00	A16S
ATOM	15735	O2P	A	A	753	129.033	112.564	-49.240	1.00	64.00	A16S
ATOM	15736	O5*	A	A	753	131.236	111.423	-48.833	1.00	66.96	A16S
ATOM	15737	C5*	A	A	753	132.255	110.445	-49.123	1.00	66.96	A16S
ATOM	15738	C4*	A	A	753	133.286	110.411	-48.025	1.00	66.96	A16S
ATOM	15739	O4*	A	A	753	133.979	111.686	-47.994	1.00	66.96	A16S
ATOM	15740	C1*	A	A	753	133.994	112.183	-46.675	1.00	66.96	A16S
ATOM	15741	N9	A	A	753	134.002	113.649	-46.712	1.00	64.00	A16S
ATOM	15742	C4	A	A	753	134.695	114.458	-45.847	1.00	64.00	A16S
ATOM	15743	N3	A	A	753	135.453	114.072	-44.813	1.00	64.00	A16S
ATOM	15744	C2	A	A	753	136.011	115.129	-44.225	1.00	64.00	A16S
ATOM	15745	N1	A	A	753	135.901	116.430	-44.526	1.00	64.00	A16S
ATOM	15746	C6	A	A	753	135.124	116.784	-45.564	1.00	64.00	A16S
ATOM	15747	N6	A	A	753	135.009	118.085	-45.846	1.00	64.00	A16S
ATOM	15748	C5	A	A	753	134.481	115.753	-46.279	1.00	64.00	A16S
ATOM	15749	N7	A	A	753	133.649	115.765	-47.384	1.00	64.00	A16S
ATOM	15750	C8	A	A	753	133.386	114.495	-47.595	1.00	64.00	A16S
ATOM	15751	C2*	A	A	753	132.818	111.532	-45.958	1.00	66.96	A16S
ATOM	15752	O2*	A	A	753	133.112	111.488	-44.579	1.00	66.96	A16S
ATOM	15753	C3*	A	A	753	132.777	110.145	-46.609	1.00	66.96	A16S
ATOM	15754	O3*	A	A	753	133.672	109.265	-45.929	1.00	66.96	A16S
ATOM	15755	P	C	A	754	133.566	107.668	-46.157	1.00	69.75	A16S
ATOM	15756	O1P	C	A	754	132.139	107.246	-46.255	1.00	64.94	A16S
ATOM	15757	O2P	C	A	754	134.465	106.997	-45.174	1.00	64.94	A16S
ATOM	15758	O5*	C	A	754	134.216	107.457	-47.592	1.00	69.75	A16S
ATOM	15759	C5*	C	A	754	135.589	107.788	-47.808	1.00	69.75	A16S
ATOM	15760	C4*	C	A	754	135.964	107.514	-49.232	1.00	69.75	A16S
ATOM	15761	O4*	C	A	754	135.062	108.224	-50.110	1.00	69.75	A16S
ATOM	15762	C1*	C	A	754	135.761	108.623	-51.265	1.00	69.75	A16S
ATOM	15763	N1	C	A	754	135.476	110.050	-51.514	1.00	64.94	A16S
ATOM	15764	C6	C	A	754	134.894	110.446	-52.684	1.00	64.94	A16S
ATOM	15765	C2	C	A	754	135.815	111.002	-50.542	1.00	64.94	A16S
ATOM	15766	O2	C	A	754	136.318	110.617	-49.481	1.00	64.94	A16S
ATOM	15767	N3	C	A	754	135.578	112.314	-50.780	1.00	64.94	A16S
ATOM	15768	C4	C	A	754	135.015	112.686	-51.926	1.00	64.94	A16S
ATOM	15769	N4	C	A	754	134.791	113.987	-52.117	1.00	64.94	A16S
ATOM	15770	C5	C	A	754	134.650	111.740	-52.931	1.00	64.94	A16S
ATOM	15771	C2*	C	A	754	137.238	108.213	-51.114	1.00	69.75	A16S
ATOM	15772	O2*	C	A	754	137.494	107.033	-51.851	1.00	69.75	A16S
ATOM	15773	C3*	C	A	754	137.363	107.967	-49.613	1.00	69.75	A16S
ATOM	15774	O3*	C	A	754	138.267	106.898	-49.317	1.00	69.75	A16S
ATOM	15775	P	G	A	755	139.822	107.198	-49.004	1.00	62.31	A16S
ATOM	15776	O1P	G	A	755	140.473	107.706	-50.254	1.00	68.08	A16S
ATOM	15777	O2P	G	A	755	140.354	105.972	-48.342	1.00	68.08	A16S
ATOM	15778	O5*	G	A	755	139.809	108.363	-47.913	1.00	62.31	A16S



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ATOM	15779	C5*	G	A	755	140.312	109.670	-48.223	1.00	62.31	A16S
ATOM	15780	C4*	G	A	755	140.559	110.448	-46.958	1.00	62.31	A16S
ATOM	15781	O4*	G	A	755	139.329	110.519	-46.197	1.00	62.31	A16S
ATOM	15782	C1*	G	A	755	139.596	110.287	-44.827	1.00	62.31	A16S
ATOM	15783	N9	G	A	755	139.091	108.953	-44.493	1.00	68.08	A16S
ATOM	15784	C4	G	A	755	139.160	108.322	-43.268	1.00	68.08	A16S
ATOM	15785	N3	G	A	755	139.693	108.829	-42.143	1.00	68.08	A16S
ATOM	15786	C2	G	A	755	139.621	107.974	-41.142	1.00	68.08	A16S
ATOM	15787	N2	G	A	755	140.099	108.303	-39.942	1.00	68.08	A16S
ATOM	15788	N1	G	A	755	139.077	106.732	-41.239	1.00	68.08	A16S
ATOM	15789	C6	G	A	755	138.524	106.194	-42.385	1.00	68.08	A16S
ATOM	15790	O6	G	A	755	138.058	105.056	-42.365	1.00	68.08	A16S
ATOM	15791	C5	G	A	755	138.587	107.088	-43.462	1.00	68.08	A16S
ATOM	15792	N7	G	A	755	138.149	106.944	-44.770	1.00	68.08	A16S
ATOM	15793	C8	G	A	755	138.466	108.069	-45.344	1.00	68.08	A16S
ATOM	15794	C2*	G	A	755	141.110	110.360	-44.666	1.00	62.31	A16S
ATOM	15795	O2*	G	A	755	141.444	111.715	-44.486	1.00	62.31	A16S
ATOM	15796	C3*	G	A	755	141.570	109.833	-46.012	1.00	62.31	A16S
ATOM	15797	O3*	G	A	755	142.877	110.259	-46.336	1.00	62.31	A16S
ATOM	15798	P	C	A	756	144.097	109.217	-46.248	1.00	61.10	A16S
ATOM	15799	O1P	C	A	756	145.247	109.782	-46.999	1.00	65.49	A16S
ATOM	15800	O2P	C	A	756	143.587	107.860	-46.586	1.00	65.49	A16S
ATOM	15801	O5*	C	A	756	144.475	109.203	-44.709	1.00	61.10	A16S
ATOM	15802	C5*	C	A	756	144.834	110.403	-44.045	1.00	61.10	A16S
ATOM	15803	C4*	C	A	756	144.969	110.143	-42.576	1.00	61.10	A16S
ATOM	15804	O4*	C	A	756	143.691	109.717	-42.045	1.00	61.10	A16S
ATOM	15805	C1*	C	A	756	143.894	108.771	-41.008	1.00	61.10	A16S
ATOM	15806	N1	C	A	756	143.205	107.512	-41.367	1.00	65.49	A16S
ATOM	15807	C6	C	A	756	142.807	107.271	-42.652	1.00	65.49	A16S
ATOM	15808	C2	C	A	756	142.962	106.560	-40.365	1.00	65.49	A16S
ATOM	15809	O2	C	A	756	143.328	106.802	-39.194	1.00	65.49	A16S
ATOM	15810	N3	C	A	756	142.337	105.405	-40.694	1.00	65.49	A16S
ATOM	15811	C4	C	A	756	141.963	105.181	-41.955	1.00	65.49	A16S
ATOM	15812	N4	C	A	756	141.368	104.014	-42.241	1.00	65.49	A16S
ATOM	15813	C5	C	A	756	142.188	106.134	-42.984	1.00	65.49	A16S
ATOM	15814	C2*	C	A	756	145.402	108.606	-40.836	1.00	61.10	A16S
ATOM	15815	O2*	C	A	756	145.849	109.508	-39.840	1.00	61.10	A16S
ATOM	15816	C3*	C	A	756	145.903	109.011	-42.211	1.00	61.10	A16S
ATOM	15817	O3*	C	A	756	147.251	109.422	-42.212	1.00	61.10	A16S
ATOM	15818	P	U	A	757	148.389	108.368	-42.636	1.00	57.63	A16S
ATOM	15819	O1P	U	A	757	149.662	109.133	-42.588	1.00	69.84	A16S
ATOM	15820	O2P	U	A	757	147.995	107.664	-43.901	1.00	69.84	A16S
ATOM	15821	O5*	U	A	757	148.363	107.310	-41.440	1.00	57.63	A16S
ATOM	15822	C5*	U	A	757	148.645	107.717	-40.082	1.00	57.63	A16S
ATOM	15823	C4*	U	A	757	148.343	106.589	-39.126	1.00	57.63	A16S
ATOM	15824	O4*	U	A	757	146.929	106.288	-39.188	1.00	57.63	A16S
ATOM	15825	C1*	U	A	757	146.730	104.914	-38.931	1.00	57.63	A16S
ATOM	15826	N1	U	A	757	145.968	104.317	-40.032	1.00	69.84	A16S
ATOM	15827	C6	U	A	757	146.051	104.787	-41.308	1.00	69.84	A16S
ATOM	15828	C2	U	A	757	145.167	103.235	-39.726	1.00	69.84	A16S
ATOM	15829	O2	U	A	757	145.035	102.807	-38.595	1.00	69.84	A16S
ATOM	15830	N3	U	A	757	144.515	102.673	-40.787	1.00	69.84	A16S
ATOM	15831	C4	U	A	757	144.563	103.084	-42.088	1.00	69.84	A16S
ATOM	15832	O4	U	A	757	143.857	102.514	-42.921	1.00	69.84	A16S
ATOM	15833	C5	U	A	757	145.394	104.222	-42.322	1.00	69.84	A16S
ATOM	15834	C2*	U	A	757	148.092	104.251	-38.750	1.00	57.63	A16S
ATOM	15835	O2*	U	A	757	148.324	104.088	-37.378	1.00	57.63	A16S
ATOM	15836	C3*	U	A	757	149.024	105.257	-39.412	1.00	57.63	A16S
ATOM	15837	O3*	U	A	757	150.353	105.193	-38.884	1.00	57.63	A16S
ATOM	15838	P	G	A	758	151.472	104.293	-39.627	1.00	53.47	A16S
ATOM	15839	O1P	G	A	758	152.753	104.352	-38.828	1.00	72.25	A16S
ATOM	15840	O2P	G	A	758	151.486	104.679	-41.074	1.00	72.25	A16S
ATOM	15841	O5*	G	A	758	150.882	102.812	-39.537	1.00	53.47	A16S
ATOM	15842	C5*	G	A	758	150.721	102.166	-38.266	1.00	53.47	A16S
ATOM	15843	C4*	G	A	758	149.851	100.945	-38.397	1.00	53.47	A16S
ATOM	15844	O4*	G	A	758	148.587	101.320	-38.984	1.00	53.47	A16S
ATOM	15845	C1*	G	A	758	148.077	100.246	-39.745	1.00	53.47	A16S
ATOM	15846	N9	G	A	758	147.905	100.696	-41.123	1.00	72.25	A16S
ATOM	15847	C4	G	A	758	146.949	100.270	-42.017	1.00	72.25	A16S
ATOM	15848	N3	G	A	758	145.981	99.367	-41.773	1.00	72.25	A16S
ATOM	15849	C2	G	A	758	145.233	99.150	-42.841	1.00	72.25	A16S
ATOM	15850	N2	G	A	758	144.208	98.297	-42.780	1.00	72.25	A16S
ATOM	15851	N1	G	A	758	145.428	99.756	-44.049	1.00	72.25	A16S
ATOM	15852	C6	G	A	758	146.418	100.681	-44.326	1.00	72.25	A16S
ATOM	15853	O6	G	A	758	146.514	101.153	-45.462	1.00	72.25	A16S
ATOM	15854	C5	G	A	758	147.218	100.942	-43.188	1.00	72.25	A16S
ATOM	15855	N7	G	A	758	148.307	101.791	-43.032	1.00	72.25	A16S



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ATOM	15856	C8	G	A	758	148.678	101.615	-41.792	1.00	72.25	A16S
ATOM	15857	C2*	G	A	758	149.065	99.089	-39.621	1.00	53.47	A16S
ATOM	15858	O2*	G	A	758	148.623	98.257	-38.568	1.00	53.47	A16S
ATOM	15859	C3*	G	A	758	150.356	99.813	-39.265	1.00	53.47	A16S
ATOM	15860	O3*	G	A	758	151.225	99.011	-38.476	1.00	53.47	A16S
ATOM	15861	P	A	A	759	151.776	97.592	-39.028	1.00	60.58	A16S
ATOM	15862	O1P	A	A	759	153.244	97.656	-38.743	1.00	63.87	A16S
ATOM	15863	O2P	A	A	759	151.315	97.282	-40.413	1.00	63.87	A16S
ATOM	15864	O5*	A	A	759	151.084	96.525	-38.061	1.00	60.58	A16S
ATOM	15865	C5*	A	A	759	151.173	96.680	-36.635	1.00	60.58	A16S
ATOM	15866	C4*	A	A	759	150.854	95.384	-35.943	1.00	60.58	A16S
ATOM	15867	O4*	A	A	759	149.424	95.168	-35.922	1.00	60.58	A16S
ATOM	15868	C1*	A	A	759	149.157	93.776	-35.933	1.00	60.58	A16S
ATOM	15869	N9	A	A	759	148.347	93.465	-37.104	1.00	63.87	A16S
ATOM	15870	C4	A	A	759	147.558	92.355	-37.227	1.00	63.87	A16S
ATOM	15871	N3	A	A	759	147.356	91.402	-36.303	1.00	63.87	A16S
ATOM	15872	C2	A	A	759	146.548	90.460	-36.777	1.00	63.87	A16S
ATOM	15873	N1	A	A	759	145.967	90.369	-37.982	1.00	63.87	A16S
ATOM	15874	C6	A	A	759	146.198	91.343	-38.888	1.00	63.87	A16S
ATOM	15875	N6	A	A	759	145.634	91.241	-40.088	1.00	63.87	A16S
ATOM	15876	C5	A	A	759	147.029	92.405	-38.504	1.00	63.87	A16S
ATOM	15877	N7	A	A	759	147.453	93.547	-39.166	1.00	63.87	A16S
ATOM	15878	C8	A	A	759	148.228	94.145	-38.293	1.00	63.87	A16S
ATOM	15879	C2*	A	A	759	150.496	93.041	-36.005	1.00	60.58	A16S
ATOM	15880	O2*	A	A	759	150.926	92.599	-34.730	1.00	60.58	A16S
ATOM	15881	C3*	A	A	759	151.408	94.117	-36.572	1.00	60.58	A16S
ATOM	15882	O3*	A	A	759	152.749	93.849	-36.223	1.00	60.58	A16S
ATOM	15883	P	G	A	760	153.788	93.439	-37.365	1.00	69.83	A16S
ATOM	15884	O1P	G	A	760	154.967	92.895	-36.639	1.00	78.86	A16S
ATOM	15885	O2P	G	A	760	153.951	94.573	-38.307	1.00	78.86	A16S
ATOM	15886	O5*	G	A	760	153.053	92.299	-38.203	1.00	69.83	A16S
ATOM	15887	C5*	G	A	760	152.998	90.959	-37.715	1.00	69.83	A16S
ATOM	15888	C4*	G	A	760	152.124	90.081	-38.599	1.00	69.83	A16S
ATOM	15889	O4*	G	A	760	150.796	90.658	-38.777	1.00	69.83	A16S
ATOM	15890	C1*	G	A	760	150.180	90.059	-39.908	1.00	69.83	A16S
ATOM	15891	N9	G	A	760	149.792	91.086	-40.860	1.00	78.86	A16S
ATOM	15892	C4	G	A	760	148.986	90.883	-41.938	1.00	78.86	A16S
ATOM	15893	N3	G	A	760	148.365	89.731	-42.243	1.00	78.86	A16S
ATOM	15894	C2	G	A	760	147.673	89.829	-43.354	1.00	78.86	A16S
ATOM	15895	N2	G	A	760	146.976	88.776	-43.790	1.00	78.86	A16S
ATOM	15896	N1	G	A	760	147.609	90.966	-44.115	1.00	78.86	A16S
ATOM	15897	C6	G	A	760	148.253	92.163	-43.815	1.00	78.86	A16S
ATOM	15898	O6	G	A	760	148.137	93.136	-44.565	1.00	78.86	A16S
ATOM	15899	C5	G	A	760	148.982	92.070	-42.621	1.00	78.86	A16S
ATOM	15900	N7	G	A	760	149.741	93.020	-41.959	1.00	78.86	A16S
ATOM	15901	C8	G	A	760	150.193	92.393	-40.911	1.00	78.86	A16S
ATOM	15902	C2*	G	A	760	151.237	89.205	-40.605	1.00	69.83	A16S
ATOM	15903	O2*	G	A	760	151.034	87.826	-40.331	1.00	69.83	A16S
ATOM	15904	C3*	G	A	760	152.532	89.774	-40.031	1.00	69.83	A16S
ATOM	15905	O3*	G	A	760	153.544	88.801	-40.163	1.00	69.83	A16S
ATOM	15906	P	G	A	761	154.401	88.750	-41.521	1.00	76.49	A16S
ATOM	15907	O1P	G	A	761	154.941	87.365	-41.648	1.00	71.70	A16S
ATOM	15908	O2P	G	A	761	155.332	89.916	-41.519	1.00	71.70	A16S
ATOM	15909	O5*	G	A	761	153.341	88.959	-42.690	1.00	76.49	A16S
ATOM	15910	C5*	G	A	761	152.570	87.860	-43.183	1.00	76.49	A16S
ATOM	15911	C4*	G	A	761	152.012	88.194	-44.538	1.00	76.49	A16S
ATOM	15912	O4*	G	A	761	151.172	89.369	-44.435	1.00	76.49	A16S
ATOM	15913	C1*	G	A	761	151.316	90.167	-45.596	1.00	76.49	A16S
ATOM	15914	N9	G	A	761	151.865	91.453	-45.185	1.00	71.70	A16S
ATOM	15915	C4	G	A	761	151.908	92.597	-45.935	1.00	71.70	A16S
ATOM	15916	N3	G	A	761	151.451	92.733	-47.192	1.00	71.70	A16S
ATOM	15917	C2	G	A	761	151.650	93.950	-47.654	1.00	71.70	A16S
ATOM	15918	N2	G	A	761	151.277	94.253	-48.903	1.00	71.70	A16S
ATOM	15919	N1	G	A	761	152.236	94.959	-46.931	1.00	71.70	A16S
ATOM	15920	C6	G	A	761	152.718	94.836	-45.634	1.00	71.70	A16S
ATOM	15921	O6	G	A	761	153.242	95.807	-45.069	1.00	71.70	A16S
ATOM	15922	C5	G	A	761	152.523	93.534	-45.135	1.00	71.70	A16S
ATOM	15923	N7	G	A	761	152.866	92.987	-43.910	1.00	71.70	A16S
ATOM	15924	C8	G	A	761	152.452	91.754	-43.980	1.00	71.70	A16S
ATOM	15925	C2*	G	A	761	152.259	89.438	-46.551	1.00	76.49	A16S
ATOM	15926	O2*	G	A	761	151.508	88.725	-47.505	1.00	76.49	A16S
ATOM	15927	C3*	G	A	761	153.042	88.548	-45.592	1.00	76.49	A16S
ATOM	15928	O3*	G	A	761	153.544	87.384	-46.226	1.00	76.49	A16S
ATOM	15929	P	C	A	762	155.015	87.404	-46.863	1.00	72.98	A16S
ATOM	15930	O1P	C	A	762	155.238	86.053	-47.480	1.00	70.01	A16S
ATOM	15931	O2P	C	A	762	155.946	87.892	-45.801	1.00	70.01	A16S
ATOM	15932	O5*	C	A	762	154.904	88.483	-48.032	1.00	72.98	A16S



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ATOM	15933	C5*	C	A	762	154.224	88.156	-49.239	1.00	72.98	A16S
ATOM	15934	C4*	C	A	762	154.173	89.351	-50.140	1.00	72.98	A16S
ATOM	15935	O4*	C	A	762	153.420	90.395	-49.478	1.00	72.98	A16S
ATOM	15936	C1*	C	A	762	153.934	91.666	-49.849	1.00	72.98	A16S
ATOM	15937	N1	C	A	762	154.490	92.314	-48.652	1.00	70.01	A16S
ATOM	15938	C6	C	A	762	154.729	91.599	-47.514	1.00	70.01	A16S
ATOM	15939	C2	C	A	762	154.809	93.686	-48.710	1.00	70.01	A16S
ATOM	15940	O2	C	A	762	154.547	94.337	-49.748	1.00	70.01	A16S
ATOM	15941	N3	C	A	762	155.394	94.263	-47.643	1.00	70.01	A16S
ATOM	15942	C4	C	A	762	155.654	93.540	-46.556	1.00	70.01	A16S
ATOM	15943	N4	C	A	762	156.272	94.143	-45.549	1.00	70.01	A16S
ATOM	15944	C5	C	A	762	155.304	92.166	-46.456	1.00	70.01	A16S
ATOM	15945	C2*	C	A	762	155.068	91.428	-50.841	1.00	72.98	A16S
ATOM	15946	O2*	C	A	762	154.606	91.542	-52.170	1.00	72.98	A16S
ATOM	15947	C3*	C	A	762	155.496	90.022	-50.459	1.00	72.98	A16S
ATOM	15948	O3*	C	A	762	156.265	89.402	-51.470	1.00	72.98	A16S
ATOM	15949	P	G	A	763	157.871	89.401	-51.330	1.00	69.31	A16S
ATOM	15950	O1P	G	A	763	158.355	88.452	-52.377	1.00	61.18	A16S
ATOM	15951	O2P	G	A	763	158.219	89.160	-49.893	1.00	61.18	A16S
ATOM	15952	O5*	G	A	763	158.306	90.895	-51.694	1.00	69.31	A16S
ATOM	15953	C5*	G	A	763	158.009	91.424	-52.987	1.00	69.31	A16S
ATOM	15954	C4*	G	A	763	158.168	92.920	-53.009	1.00	69.31	A16S
ATOM	15955	O4*	G	A	763	157.329	93.522	-51.991	1.00	69.31	A16S
ATOM	15956	C1*	G	A	763	157.900	94.754	-51.576	1.00	69.31	A16S
ATOM	15957	N9	G	A	763	158.189	94.685	-50.147	1.00	61.18	A16S
ATOM	15958	C4	G	A	763	158.684	95.705	-49.370	1.00	61.18	A16S
ATOM	15959	N3	G	A	763	158.966	96.951	-49.792	1.00	61.18	A16S
ATOM	15960	C2	G	A	763	159.464	97.700	-48.822	1.00	61.18	A16S
ATOM	15961	N2	G	A	763	159.818	98.971	-49.075	1.00	61.18	A16S
ATOM	15962	N1	G	A	763	159.657	97.258	-47.532	1.00	61.18	A16S
ATOM	15963	C6	G	A	763	159.368	95.973	-47.076	1.00	61.18	A16S
ATOM	15964	O6	G	A	763	159.583	95.666	-45.888	1.00	61.18	A16S
ATOM	15965	C5	G	A	763	158.842	95.164	-48.112	1.00	61.18	A16S
ATOM	15966	N7	G	A	763	158.438	93.837	-48.091	1.00	61.18	A16S
ATOM	15967	C8	G	A	763	158.055	93.597	-49.317	1.00	61.18	A16S
ATOM	15968	C2*	G	A	763	159.201	94.937	-52.355	1.00	69.31	A16S
ATOM	15969	O2*	G	A	763	158.983	95.777	-53.473	1.00	69.31	A16S
ATOM	15970	C3*	G	A	763	159.539	93.498	-52.722	1.00	69.31	A16S
ATOM	15971	O3*	G	A	763	160.430	93.431	-53.823	1.00	69.31	A16S
ATOM	15972	P	C	A	764	162.023	93.320	-53.552	1.00	58.59	A16S
ATOM	15973	O1P	C	A	764	162.710	93.286	-54.897	1.00	51.66	A16S
ATOM	15974	O2P	C	A	764	162.270	92.214	-52.553	1.00	51.66	A16S
ATOM	15975	O5*	C	A	764	162.413	94.743	-52.957	1.00	58.59	A16S
ATOM	15976	C5*	C	A	764	162.395	95.871	-53.827	1.00	58.59	A16S
ATOM	15977	C4*	C	A	764	162.729	97.115	-53.082	1.00	58.59	A16S
ATOM	15978	O4*	C	A	764	161.806	97.265	-51.987	1.00	58.59	A16S
ATOM	15979	C1*	C	A	764	162.469	97.874	-50.900	1.00	58.59	A16S
ATOM	15980	N1	C	A	764	162.492	96.920	-49.776	1.00	51.66	A16S
ATOM	15981	C6	C	A	764	162.125	95.617	-49.952	1.00	51.66	A16S
ATOM	15982	C2	C	A	764	162.893	97.375	-48.507	1.00	51.66	A16S
ATOM	15983	O2	C	A	764	163.239	98.560	-48.373	1.00	51.66	A16S
ATOM	15984	N3	C	A	764	162.896	96.510	-47.467	1.00	51.66	A16S
ATOM	15985	C4	C	A	764	162.527	95.246	-47.653	1.00	51.66	A16S
ATOM	15986	N4	C	A	764	162.543	94.435	-46.601	1.00	51.66	A16S
ATOM	15987	C5	C	A	764	162.125	94.757	-48.928	1.00	51.66	A16S
ATOM	15988	C2*	C	A	764	163.876	98.224	-51.373	1.00	58.59	A16S
ATOM	15989	O2*	C	A	764	163.852	99.509	-51.971	1.00	58.59	A16S
ATOM	15990	C3*	C	A	764	164.094	97.167	-52.430	1.00	58.59	A16S
ATOM	15991	O3*	C	A	764	165.096	97.571	-53.336	1.00	58.59	A16S
ATOM	15992	P	G	A	765	166.510	96.821	-53.323	1.00	58.69	A16S
ATOM	15993	O1P	G	A	765	167.288	97.435	-54.428	1.00	56.02	A16S
ATOM	15994	O2P	G	A	765	166.256	95.361	-53.317	1.00	56.02	A16S
ATOM	15995	O5*	G	A	765	167.161	97.230	-51.928	1.00	58.69	A16S
ATOM	15996	C5*	G	A	765	167.516	98.596	-51.661	1.00	58.69	A16S
ATOM	15997	C4*	G	A	765	167.696	98.811	-50.182	1.00	58.69	A16S
ATOM	15998	O4*	G	A	765	166.467	98.461	-49.503	1.00	58.69	A16S
ATOM	15999	C1*	G	A	765	166.766	97.851	-48.260	1.00	58.69	A16S
ATOM	16000	N9	G	A	765	166.277	96.484	-48.323	1.00	56.02	A16S
ATOM	16001	C4	G	A	765	166.195	95.608	-47.282	1.00	56.02	A16S
ATOM	16002	N3	G	A	765	166.487	95.885	-46.006	1.00	56.02	A16S
ATOM	16003	C2	G	A	765	166.289	94.847	-45.226	1.00	56.02	A16S
ATOM	16004	N2	G	A	765	166.458	94.986	-43.910	1.00	56.02	A16S
ATOM	16005	N1	G	A	765	165.884	93.614	-45.677	1.00	56.02	A16S
ATOM	16006	C6	G	A	765	165.576	93.317	-46.998	1.00	56.02	A16S
ATOM	16007	O6	G	A	765	165.195	92.184	-47.308	1.00	56.02	A16S
ATOM	16008	C5	G	A	765	165.749	94.429	-47.827	1.00	56.02	A16S
ATOM	16009	N7	G	A	765	165.519	94.573	-49.182	1.00	56.02	A16S



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ATOM	16010	C8	G	A	765	165.842	95.810	-49.432	1.00	56.02	A16S
ATOM	16011	C2*	G	A	765	168.287	97.878	-48.070	1.00	58.69	A16S
ATOM	16012	O2*	G	A	765	168.685	98.983	-47.260	1.00	58.69	A16S
ATOM	16013	C3*	G	A	765	168.761	97.951	-49.520	1.00	58.69	A16S
ATOM	16014	O3*	G	A	765	170.039	98.552	-49.640	1.00	58.69	A16S
ATOM	16015	P	A	A	766	171.138	97.900	-50.615	1.00	61.58	A16S
ATOM	16016	O1P	A	A	766	170.692	98.256	-51.999	1.00	50.03	A16S
ATOM	16017	O2P	A	A	766	171.345	96.461	-50.233	1.00	50.03	A16S
ATOM	16018	O5*	A	A	766	172.461	98.718	-50.270	1.00	61.58	A16S
ATOM	16019	C5*	A	A	766	172.464	100.148	-50.367	1.00	61.58	A16S
ATOM	16020	C4*	A	A	766	173.631	100.733	-49.615	1.00	61.58	A16S
ATOM	16021	O4*	A	A	766	173.365	100.801	-48.192	1.00	61.58	A16S
ATOM	16022	C1*	A	A	766	174.598	100.828	-47.499	1.00	61.58	A16S
ATOM	16023	N9	A	A	766	174.627	99.818	-46.445	1.00	50.03	A16S
ATOM	16024	C4	A	A	766	175.633	99.763	-45.517	1.00	50.03	A16S
ATOM	16025	N3	A	A	766	176.680	100.609	-45.411	1.00	50.03	A16S
ATOM	16026	C2	A	A	766	177.478	100.242	-44.402	1.00	50.03	A16S
ATOM	16027	N1	A	A	766	177.355	99.198	-43.556	1.00	50.03	A16S
ATOM	16028	C6	A	A	766	176.290	98.366	-43.695	1.00	50.03	A16S
ATOM	16029	N6	A	A	766	176.184	97.320	-42.860	1.00	50.03	A16S
ATOM	16030	C5	A	A	766	175.362	98.658	-44.724	1.00	50.03	A16S
ATOM	16031	N7	A	A	766	174.187	98.045	-45.129	1.00	50.03	A16S
ATOM	16032	C8	A	A	766	173.790	98.771	-46.150	1.00	50.03	A16S
ATOM	16033	C2*	A	A	766	175.706	100.549	-48.508	1.00	61.58	A16S
ATOM	16034	O2*	A	A	766	176.344	101.762	-48.836	1.00	61.58	A16S
ATOM	16035	C3*	A	A	766	174.931	99.961	-49.675	1.00	61.58	A16S
ATOM	16036	O3*	A	A	766	175.635	100.086	-50.900	1.00	61.58	A16S
ATOM	16037	P	A	A	767	176.416	98.796	-51.484	1.00	74.74	A16S
ATOM	16038	O1P	A	A	767	177.115	99.248	-52.717	1.00	59.08	A16S
ATOM	16039	O2P	A	A	767	175.494	97.613	-51.539	1.00	59.08	A16S
ATOM	16040	O5*	A	A	767	177.508	98.451	-50.375	1.00	74.74	A16S
ATOM	16041	C5*	A	A	767	178.542	99.390	-50.048	1.00	74.74	A16S
ATOM	16042	C4*	A	A	767	179.334	98.901	-48.869	1.00	74.74	A16S
ATOM	16043	O4*	A	A	767	178.498	98.898	-47.685	1.00	74.74	A16S
ATOM	16044	C1*	A	A	767	178.860	97.812	-46.847	1.00	74.74	A16S
ATOM	16045	N9	A	A	767	177.695	96.931	-46.682	1.00	59.08	A16S
ATOM	16046	C4	A	A	767	177.486	96.007	-45.678	1.00	59.08	A16S
ATOM	16047	N3	A	A	767	178.260	95.765	-44.608	1.00	59.08	A16S
ATOM	16048	C2	A	A	767	177.755	94.771	-43.871	1.00	59.08	A16S
ATOM	16049	N1	A	A	767	176.656	94.047	-44.069	1.00	59.08	A16S
ATOM	16050	C6	A	A	767	175.905	94.311	-45.153	1.00	59.08	A16S
ATOM	16051	N6	A	A	767	174.823	93.575	-45.359	1.00	59.08	A16S
ATOM	16052	C5	A	A	767	176.319	95.347	-46.008	1.00	59.08	A16S
ATOM	16053	N7	A	A	767	175.773	95.872	-47.167	1.00	59.08	A16S
ATOM	16054	C8	A	A	767	176.615	96.815	-47.519	1.00	59.08	A16S
ATOM	16055	C2*	A	A	767	180.038	97.099	-47.521	1.00	74.74	A16S
ATOM	16056	O2*	A	A	767	181.259	97.637	-47.057	1.00	74.74	A16S
ATOM	16057	C3*	A	A	767	179.837	97.475	-48.979	1.00	74.74	A16S
ATOM	16058	O3*	A	A	767	181.045	97.392	-49.729	1.00	74.74	A16S
ATOM	16059	P	A	A	768	181.389	96.040	-50.541	1.00	62.23	A16S
ATOM	16060	O1P	A	A	768	182.669	96.284	-51.270	1.00	55.06	A16S
ATOM	16061	O2P	A	A	768	180.173	95.608	-51.298	1.00	55.06	A16S
ATOM	16062	O5*	A	A	768	181.663	94.967	-49.395	1.00	62.23	A16S
ATOM	16063	C5*	A	A	768	182.796	95.098	-48.516	1.00	62.23	A16S
ATOM	16064	C4*	A	A	768	182.711	94.080	-47.408	1.00	62.23	A16S
ATOM	16065	O4*	A	A	768	181.535	94.358	-46.615	1.00	62.23	A16S
ATOM	16066	C1*	A	A	768	180.947	93.150	-46.174	1.00	62.23	A16S
ATOM	16067	N9	A	A	768	179.607	93.077	-46.748	1.00	55.06	A16S
ATOM	16068	C4	A	A	768	178.594	92.204	-46.414	1.00	55.06	A16S
ATOM	16069	N3	A	A	768	178.605	91.254	-45.462	1.00	55.06	A16S
ATOM	16070	C2	A	A	768	177.448	90.586	-45.452	1.00	55.06	A16S
ATOM	16071	N1	A	A	768	176.373	90.742	-46.236	1.00	55.06	A16S
ATOM	16072	C6	A	A	768	176.410	91.701	-47.189	1.00	55.06	A16S
ATOM	16073	N6	A	A	768	175.370	91.845	-48.005	1.00	55.06	A16S
ATOM	16074	C5	A	A	768	177.556	92.489	-47.283	1.00	55.06	A16S
ATOM	16075	N7	A	A	768	177.887	93.542	-48.123	1.00	55.06	A16S
ATOM	16076	C8	A	A	768	179.107	93.858	-47.766	1.00	55.06	A16S
ATOM	16077	C2*	A	A	768	181.843	92.008	-46.645	1.00	62.23	A16S
ATOM	16078	O2*	A	A	768	182.741	91.688	-45.604	1.00	62.23	A16S
ATOM	16079	C3*	A	A	768	182.543	92.635	-47.843	1.00	62.23	A16S
ATOM	16080	O3*	A	A	768	183.798	92.024	-48.112	1.00	62.23	A16S
ATOM	16081	P	G	A	769	183.903	90.886	-49.240	1.00	56.53	A16S
ATOM	16082	O1P	G	A	769	185.243	90.279	-49.088	1.00	56.97	A16S
ATOM	16083	O2P	G	A	769	183.509	91.458	-50.553	1.00	56.97	A16S
ATOM	16084	O5*	G	A	769	182.806	89.819	-48.796	1.00	56.53	A16S
ATOM	16085	C5*	G	A	769	182.951	89.127	-47.563	1.00	56.53	A16S
ATOM	16086	C4*	G	A	769	181.738	88.287	-47.286	1.00	56.53	A16S



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ATOM	16087	O4*	G	A	769	180.566	89.128	-47.153	1.00	56.53	A16S
ATOM	16088	C1*	G	A	769	179.408	88.392	-47.512	1.00	56.53	A16S
ATOM	16089	N9	G	A	769	178.704	89.080	-48.590	1.00	56.97	A16S
ATOM	16090	C4	G	A	769	177.548	88.642	-49.206	1.00	56.97	A16S
ATOM	16091	N3	G	A	769	176.868	87.508	-48.911	1.00	56.97	A16S
ATOM	16092	C2	G	A	769	175.790	87.363	-49.675	1.00	56.97	A16S
ATOM	16093	N2	G	A	769	174.983	86.302	-49.507	1.00	56.97	A16S
ATOM	16094	N1	G	A	769	175.425	88.248	-50.656	1.00	56.97	A16S
ATOM	16095	C6	G	A	769	176.118	89.410	-50.983	1.00	56.97	A16S
ATOM	16096	O6	G	A	769	175.719	90.122	-51.898	1.00	56.97	A16S
ATOM	16097	C5	G	A	769	177.259	89.594	-50.161	1.00	56.97	A16S
ATOM	16098	N7	G	A	769	178.200	90.622	-50.139	1.00	56.97	A16S
ATOM	16099	C8	G	A	769	179.040	90.272	-49.198	1.00	56.97	A16S
ATOM	16100	C2*	G	A	769	179.872	87.011	-47.949	1.00	56.53	A16S
ATOM	16101	O2*	G	A	769	179.761	86.175	-46.817	1.00	56.53	A16S
ATOM	16102	C3*	G	A	769	181.316	87.292	-48.346	1.00	56.53	A16S
ATOM	16103	O3*	G	A	769	182.123	86.131	-48.344	1.00	56.53	A16S
ATOM	16104	P	C	A	770	182.584	85.495	-49.747	1.00	64.14	A16S
ATOM	16105	O1P	C	A	770	183.807	84.684	-49.435	1.00	58.70	A16S
ATOM	16106	O2P	C	A	770	182.644	86.558	-50.781	1.00	58.70	A16S
ATOM	16107	O5*	C	A	770	181.358	84.558	-50.130	1.00	64.14	A16S
ATOM	16108	C5*	C	A	770	180.768	83.720	-49.131	1.00	64.14	A16S
ATOM	16109	C4*	C	A	770	179.476	83.110	-49.626	1.00	64.14	A16S
ATOM	16110	O4*	C	A	770	178.389	84.066	-49.603	1.00	64.14	A16S
ATOM	16111	C1*	C	A	770	177.442	83.719	-50.599	1.00	64.14	A16S
ATOM	16112	N1	C	A	770	177.285	84.845	-51.528	1.00	58.70	A16S
ATOM	16113	C6	C	A	770	178.152	85.903	-51.535	1.00	58.70	A16S
ATOM	16114	C2	C	A	770	176.212	84.812	-52.407	1.00	58.70	A16S
ATOM	16115	O2	C	A	770	175.470	83.802	-52.408	1.00	58.70	A16S
ATOM	16116	N3	C	A	770	176.010	85.859	-53.240	1.00	58.70	A16S
ATOM	16117	C4	C	A	770	176.844	86.892	-53.220	1.00	58.70	A16S
ATOM	16118	N4	C	A	770	176.589	87.901	-54.034	1.00	58.70	A16S
ATOM	16119	C5	C	A	770	177.969	86.936	-52.358	1.00	58.70	A16S
ATOM	16120	C2*	C	A	770	177.956	82.485	-51.327	1.00	64.14	A16S
ATOM	16121	O2*	C	A	770	177.372	81.335	-50.759	1.00	64.14	A16S
ATOM	16122	C3*	C	A	770	179.444	82.573	-51.040	1.00	64.14	A16S
ATOM	16123	O3*	C	A	770	180.054	81.319	-51.162	1.00	64.14	A16S
ATOM	16124	P	G	A	771	180.685	80.918	-52.568	1.00	69.70	A16S
ATOM	16125	O1P	G	A	771	181.412	79.646	-52.316	1.00	63.34	A16S
ATOM	16126	O2P	G	A	771	181.412	82.097	-53.118	1.00	63.34	A16S
ATOM	16127	O5*	G	A	771	179.410	80.672	-53.492	1.00	69.70	A16S
ATOM	16128	C5*	G	A	771	178.539	79.546	-53.271	1.00	69.70	A16S
ATOM	16129	C4*	G	A	771	177.557	79.420	-54.408	1.00	69.70	A16S
ATOM	16130	O4*	G	A	771	176.606	80.506	-54.342	1.00	69.70	A16S
ATOM	16131	C1*	G	A	771	176.236	80.895	-55.655	1.00	69.70	A16S
ATOM	16132	N9	G	A	771	176.578	82.297	-55.834	1.00	63.34	A16S
ATOM	16133	C4	G	A	771	176.050	83.125	-56.778	1.00	63.34	A16S
ATOM	16134	N3	G	A	771	175.137	82.778	-57.703	1.00	63.34	A16S
ATOM	16135	C2	G	A	771	174.823	83.797	-58.485	1.00	63.34	A16S
ATOM	16136	N2	G	A	771	173.934	83.628	-59.463	1.00	63.34	A16S
ATOM	16137	N1	G	A	771	175.360	85.059	-58.365	1.00	63.34	A16S
ATOM	16138	C6	G	A	771	176.308	85.436	-57.414	1.00	63.34	A16S
ATOM	16139	O6	G	A	771	176.742	86.600	-57.388	1.00	63.34	A16S
ATOM	16140	C5	G	A	771	176.654	84.350	-56.571	1.00	63.34	A16S
ATOM	16141	N7	G	A	771	177.554	84.284	-55.515	1.00	63.34	A16S
ATOM	16142	C8	G	A	771	177.477	83.047	-55.110	1.00	63.34	A16S
ATOM	16143	C2*	G	A	771	176.989	80.016	-56.646	1.00	69.70	A16S
ATOM	16144	O2*	G	A	771	176.154	78.976	-57.098	1.00	69.70	A16S
ATOM	16145	C3*	G	A	771	178.158	79.543	-55.798	1.00	69.70	A16S
ATOM	16146	O3*	G	A	771	178.699	78.331	-56.270	1.00	69.70	A16S
ATOM	16147	P	U	A	772	179.899	78.378	-57.331	1.00	74.09	A16S
ATOM	16148	O1P	U	A	772	180.361	76.972	-57.419	1.00	73.08	A16S
ATOM	16149	O2P	U	A	772	180.860	79.446	-56.934	1.00	73.08	A16S
ATOM	16150	O5*	U	A	772	179.195	78.823	-58.697	1.00	74.09	A16S
ATOM	16151	C5*	U	A	772	178.331	77.916	-59.406	1.00	74.09	A16S
ATOM	16152	C4*	U	A	772	177.829	78.542	-60.681	1.00	74.09	A16S
ATOM	16153	O4*	U	A	772	176.914	79.619	-60.368	1.00	74.09	A16S
ATOM	16154	C1*	U	A	772	177.027	80.643	-61.343	1.00	74.09	A16S
ATOM	16155	N1	U	A	772	177.507	81.867	-60.685	1.00	73.08	A16S
ATOM	16156	C6	U	A	772	178.287	81.807	-59.565	1.00	73.08	A16S
ATOM	16157	C2	U	A	772	177.161	83.086	-61.241	1.00	73.08	A16S
ATOM	16158	O2	U	A	772	176.466	83.196	-62.220	1.00	73.08	A16S
ATOM	16159	N3	U	A	772	177.666	84.181	-60.604	1.00	73.08	A16S
ATOM	16160	C4	U	A	772	178.462	84.192	-59.495	1.00	73.08	A16S
ATOM	16161	O4	U	A	772	178.869	85.271	-59.053	1.00	73.08	A16S
ATOM	16162	C5	U	A	772	178.765	82.895	-58.967	1.00	73.08	A16S
ATOM	16163	C2*	U	A	772	178.032	80.170	-62.391	1.00	74.09	A16S



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ATOM	16164	O2*	U	A	772	177.345	79.589	-63.489	1.00	74.09	A16S
ATOM	16165	C3*	U	A	772	178.870	79.186	-61.581	1.00	74.09	A16S
ATOM	16166	O3*	U	A	772	179.570	78.255	-62.396	1.00	74.09	A16S
ATOM	16167	P	G	A	773	181.084	78.580	-62.862	1.00	80.52	A16S
ATOM	16168	O1P	G	A	773	181.488	77.385	-63.642	1.00	75.90	A16S
ATOM	16169	O2P	G	A	773	181.924	79.025	-61.707	1.00	75.90	A16S
ATOM	16170	O5*	G	A	773	180.932	79.801	-63.877	1.00	80.52	A16S
ATOM	16171	C5*	G	A	773	180.150	79.644	-65.060	1.00	80.52	A16S
ATOM	16172	C4*	G	A	773	179.878	80.971	-65.711	1.00	80.52	A16S
ATOM	16173	O4*	G	A	773	178.983	81.785	-64.904	1.00	80.52	A16S
ATOM	16174	C1*	G	A	773	179.171	83.155	-65.243	1.00	80.52	A16S
ATOM	16175	N9	G	A	773	179.517	83.943	-64.055	1.00	75.90	A16S
ATOM	16176	C4	G	A	773	179.479	85.323	-63.976	1.00	75.90	A16S
ATOM	16177	N3	G	A	773	179.025	86.157	-64.933	1.00	75.90	A16S
ATOM	16178	C2	G	A	773	179.170	87.425	-64.599	1.00	75.90	A16S
ATOM	16179	N2	G	A	773	178.753	88.389	-65.437	1.00	75.90	A16S
ATOM	16180	N1	G	A	773	179.729	87.840	-63.424	1.00	75.90	A16S
ATOM	16181	C6	G	A	773	180.206	87.003	-62.426	1.00	75.90	A16S
ATOM	16182	O6	G	A	773	180.710	87.490	-61.414	1.00	75.90	A16S
ATOM	16183	C5	G	A	773	180.038	85.637	-62.761	1.00	75.90	A16S
ATOM	16184	N7	G	A	773	180.360	84.485	-62.052	1.00	75.90	A16S
ATOM	16185	C8	G	A	773	180.017	83.505	-62.848	1.00	75.90	A16S
ATOM	16186	C2*	G	A	773	180.330	83.217	-66.246	1.00	80.52	A16S
ATOM	16187	O2*	G	A	773	179.827	83.309	-67.569	1.00	80.52	A16S
ATOM	16188	C3*	G	A	773	181.048	81.895	-65.987	1.00	80.52	A16S
ATOM	16189	O3*	G	A	773	181.811	81.502	-67.119	1.00	80.52	A16S
ATOM	16190	P	G	A	774	183.344	81.995	-67.271	1.00	77.74	A16S
ATOM	16191	O1P	G	A	774	183.742	81.456	-68.593	1.00	76.60	A16S
ATOM	16192	O2P	G	A	774	184.150	81.648	-66.070	1.00	76.60	A16S
ATOM	16193	O5*	G	A	774	183.263	83.584	-67.400	1.00	77.74	A16S
ATOM	16194	C5*	G	A	774	182.778	84.162	-68.615	1.00	77.74	A16S
ATOM	16195	C4*	G	A	774	182.645	85.657	-68.501	1.00	77.74	A16S
ATOM	16196	O4*	G	A	774	181.792	86.008	-67.385	1.00	77.74	A16S
ATOM	16197	C1*	G	A	774	182.069	87.341	-66.991	1.00	77.74	A16S
ATOM	16198	N9	G	A	774	182.425	87.390	-65.580	1.00	76.60	A16S
ATOM	16199	C4	G	A	774	182.567	88.543	-64.851	1.00	76.60	A16S
ATOM	16200	N3	G	A	774	182.331	89.794	-65.302	1.00	76.60	A16S
ATOM	16201	C2	G	A	774	182.581	90.707	-64.383	1.00	76.60	A16S
ATOM	16202	N2	G	A	774	182.364	92.003	-64.660	1.00	76.60	A16S
ATOM	16203	N1	G	A	774	183.054	90.416	-63.121	1.00	76.60	A16S
ATOM	16204	C6	G	A	774	183.310	89.133	-62.634	1.00	76.60	A16S
ATOM	16205	O6	G	A	774	183.745	88.979	-61.482	1.00	76.60	A16S
ATOM	16206	C5	G	A	774	183.018	88.140	-63.611	1.00	76.60	A16S
ATOM	16207	N7	G	A	774	183.108	86.753	-63.547	1.00	76.60	A16S
ATOM	16208	C8	G	A	774	182.738	86.351	-64.735	1.00	76.60	A16S
ATOM	16209	C2*	G	A	774	183.268	87.814	-67.802	1.00	77.74	A16S
ATOM	16210	O2*	G	A	774	182.772	88.597	-68.861	1.00	77.74	A16S
ATOM	16211	C3*	G	A	774	183.882	86.495	-68.256	1.00	77.74	A16S
ATOM	16212	O3*	G	A	774	184.634	86.687	-69.435	1.00	77.74	A16S
ATOM	16213	P	G	A	775	186.160	87.197	-69.335	1.00	87.13	A16S
ATOM	16214	O1P	G	A	775	186.586	87.433	-70.752	1.00	78.40	A16S
ATOM	16215	O2P	G	A	775	186.957	86.285	-68.458	1.00	78.40	A16S
ATOM	16216	O5*	G	A	775	186.075	88.609	-68.595	1.00	87.13	A16S
ATOM	16217	C5*	G	A	775	185.514	89.763	-69.251	1.00	87.13	A16S
ATOM	16218	C4*	G	A	775	185.632	90.979	-68.365	1.00	87.13	A16S
ATOM	16219	O4*	G	A	775	184.809	90.812	-67.181	1.00	87.13	A16S
ATOM	16220	C1*	G	A	775	185.472	91.364	-66.051	1.00	87.13	A16S
ATOM	16221	N9	G	A	775	185.797	90.278	-65.128	1.00	78.40	A16S
ATOM	16222	C4	G	A	775	186.277	90.406	-63.849	1.00	78.40	A16S
ATOM	16223	N3	G	A	775	186.483	91.564	-63.195	1.00	78.40	A16S
ATOM	16224	C2	G	A	775	186.953	91.363	-61.978	1.00	78.40	A16S
ATOM	16225	N2	G	A	775	187.177	92.411	-61.170	1.00	78.40	A16S
ATOM	16226	N1	G	A	775	187.229	90.124	-61.459	1.00	78.40	A16S
ATOM	16227	C6	G	A	775	187.035	88.922	-62.125	1.00	78.40	A16S
ATOM	16228	O6	G	A	775	187.333	87.857	-61.576	1.00	78.40	A16S
ATOM	16229	C5	G	A	775	186.502	89.122	-63.411	1.00	78.40	A16S
ATOM	16230	N7	G	A	775	186.139	88.202	-64.379	1.00	78.40	A16S
ATOM	16231	C8	G	A	775	185.723	88.931	-65.376	1.00	78.40	A16S
ATOM	16232	C2*	G	A	775	186.747	92.032	-66.560	1.00	87.13	A16S
ATOM	16233	O2*	G	A	775	186.471	93.386	-66.830	1.00	87.13	A16S
ATOM	16234	C3*	G	A	775	187.024	91.232	-67.824	1.00	87.13	A16S
ATOM	16235	O3*	G	A	775	187.834	91.918	-68.758	1.00	87.13	A16S
ATOM	16236	P	G	A	776	189.426	91.686	-68.744	1.00	82.67	A16S
ATOM	16237	O1P	G	A	776	189.714	90.225	-68.681	1.00	70.95	A16S
ATOM	16238	O2P	G	A	776	190.011	92.523	-69.833	1.00	70.95	A16S
ATOM	16239	O5*	G	A	776	189.889	92.322	-67.366	1.00	82.67	A16S
ATOM	16240	C5*	G	A	776	189.621	93.700	-67.089	1.00	82.67	A16S



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ATOM	16241	C4*	G	A	776	190.018	94.027	-65.685	1.00	82.67	A16S
ATOM	16242	O4*	G	A	776	189.268	93.196	-64.776	1.00	82.67	A16S
ATOM	16243	C1*	G	A	776	190.051	92.932	-63.632	1.00	82.67	A16S
ATOM	16244	N9	G	A	776	190.158	91.494	-63.447	1.00	70.95	A16S
ATOM	16245	C4	G	A	776	190.390	90.873	-62.255	1.00	70.95	A16S
ATOM	16246	N3	G	A	776	190.552	91.490	-61.066	1.00	70.95	A16S
ATOM	16247	C2	G	A	776	190.764	90.625	-60.088	1.00	70.95	A16S
ATOM	16248	N2	G	A	776	190.965	91.072	-58.842	1.00	70.95	A16S
ATOM	16249	N1	G	A	776	190.802	89.258	-60.258	1.00	70.95	A16S
ATOM	16250	C6	G	A	776	190.635	88.598	-61.471	1.00	70.95	A16S
ATOM	16251	O6	G	A	776	190.682	87.356	-61.512	1.00	70.95	A16S
ATOM	16252	C5	G	A	776	190.418	89.524	-62.541	1.00	70.95	A16S
ATOM	16253	N7	G	A	776	190.209	89.306	-63.898	1.00	70.95	A16S
ATOM	16254	C8	G	A	776	190.058	90.505	-64.394	1.00	70.95	A16S
ATOM	16255	C2*	G	A	776	191.411	93.592	-63.819	1.00	82.67	A16S
ATOM	16256	O2*	G	A	776	191.393	94.807	-63.093	1.00	82.67	A16S
ATOM	16257	C3*	G	A	776	191.467	93.745	-65.338	1.00	82.67	A16S
ATOM	16258	O3*	G	A	776	192.280	94.823	-65.786	1.00	82.67	A16S
ATOM	16259	P	A	A	777	193.874	94.636	-65.950	1.00	67.46	A16S
ATOM	16260	O1P	A	A	777	194.332	93.408	-65.219	1.00	75.70	A16S
ATOM	16261	O2P	A	A	777	194.169	94.778	-67.418	1.00	75.70	A16S
ATOM	16262	O5*	A	A	777	194.419	95.905	-65.145	1.00	67.46	A16S
ATOM	16263	C5*	A	A	777	195.388	96.781	-65.721	1.00	67.46	A16S
ATOM	16264	C4*	A	A	777	195.152	98.213	-65.291	1.00	67.46	A16S
ATOM	16265	O4*	A	A	777	193.768	98.575	-65.544	1.00	67.46	A16S
ATOM	16266	C1*	A	A	777	193.385	99.602	-64.645	1.00	67.46	A16S
ATOM	16267	N9	A	A	777	192.349	99.093	-63.743	1.00	75.70	A16S
ATOM	16268	C4	A	A	777	191.630	99.864	-62.862	1.00	75.70	A16S
ATOM	16269	N3	A	A	777	191.709	101.196	-62.697	1.00	75.70	A16S
ATOM	16270	C2	A	A	777	190.889	101.598	-61.729	1.00	75.70	A16S
ATOM	16271	N1	A	A	777	190.061	100.873	-60.963	1.00	75.70	A16S
ATOM	16272	C6	A	A	777	190.010	99.535	-61.155	1.00	75.70	A16S
ATOM	16273	N6	A	A	777	189.196	98.809	-60.387	1.00	75.70	A16S
ATOM	16274	C5	A	A	777	190.830	98.986	-62.156	1.00	75.70	A16S
ATOM	16275	N7	A	A	777	191.021	97.683	-62.596	1.00	75.70	A16S
ATOM	16276	C8	A	A	777	191.923	97.800	-63.541	1.00	75.70	A16S
ATOM	16277	C2*	A	A	777	194.619	99.944	-63.815	1.00	67.46	A16S
ATOM	16278	O2*	A	A	777	195.350	100.929	-64.506	1.00	67.46	A16S
ATOM	16279	C3*	A	A	777	195.379	98.632	-63.841	1.00	67.46	A16S
ATOM	16280	O3*	A	A	777	196.749	98.886	-63.522	1.00	67.46	A16S
ATOM	16281	P	G	A	778	197.327	98.514	-62.051	1.00	69.83	A16S
ATOM	16282	O1P	G	A	778	198.796	98.768	-62.102	1.00	69.64	A16S
ATOM	16283	O2P	G	A	778	196.824	97.178	-61.614	1.00	69.64	A16S
ATOM	16284	O5*	G	A	778	196.685	99.587	-61.068	1.00	69.83	A16S
ATOM	16285	C5*	G	A	778	196.942	100.992	-61.235	1.00	69.83	A16S
ATOM	16286	C4*	G	A	778	196.000	101.794	-60.368	1.00	69.83	A16S
ATOM	16287	O4*	G	A	778	194.633	101.596	-60.820	1.00	69.83	A16S
ATOM	16288	C1*	G	A	778	193.769	101.469	-59.708	1.00	69.83	A16S
ATOM	16289	N9	G	A	778	193.272	100.098	-59.696	1.00	69.64	A16S
ATOM	16290	C4	G	A	778	192.253	99.602	-58.921	1.00	69.64	A16S
ATOM	16291	N3	G	A	778	191.503	100.306	-58.051	1.00	69.64	A16S
ATOM	16292	C2	G	A	778	190.615	99.541	-57.435	1.00	69.64	A16S
ATOM	16293	N2	G	A	778	189.794	100.074	-56.532	1.00	69.64	A16S
ATOM	16294	N1	G	A	778	190.466	98.198	-57.655	1.00	69.64	A16S
ATOM	16295	C6	G	A	778	191.220	97.449	-58.542	1.00	69.64	A16S
ATOM	16296	O6	G	A	778	191.008	96.237	-58.650	1.00	69.64	A16S
ATOM	16297	C5	G	A	778	192.186	98.257	-59.220	1.00	69.64	A16S
ATOM	16298	N7	G	A	778	193.129	97.921	-60.183	1.00	69.64	A16S
ATOM	16299	C8	G	A	778	193.745	99.042	-60.435	1.00	69.64	A16S
ATOM	16300	C2*	G	A	778	194.596	101.785	-58.461	1.00	69.83	A16S
ATOM	16301	O2*	G	A	778	194.516	103.172	-58.184	1.00	69.83	A16S
ATOM	16302	C3*	G	A	778	195.987	101.372	-58.914	1.00	69.83	A16S
ATOM	16303	O3*	G	A	778	197.020	102.008	-58.188	1.00	69.83	A16S
ATOM	16304	P	C	A	779	197.627	101.285	-56.889	1.00	64.95	A16S
ATOM	16305	O1P	C	A	779	198.588	102.259	-56.300	1.00	71.99	A16S
ATOM	16306	O2P	C	A	779	198.083	99.893	-57.214	1.00	71.99	A16S
ATOM	16307	O5*	C	A	779	196.369	101.111	-55.920	1.00	64.95	A16S
ATOM	16308	C5*	C	A	779	195.652	102.251	-55.383	1.00	64.95	A16S
ATOM	16309	C4*	C	A	779	194.521	101.781	-54.491	1.00	64.95	A16S
ATOM	16310	O4*	C	A	779	193.541	101.084	-55.293	1.00	64.95	A16S
ATOM	16311	C1*	C	A	779	192.981	100.032	-54.539	1.00	64.95	A16S
ATOM	16312	N1	C	A	779	193.182	98.782	-55.271	1.00	71.99	A16S
ATOM	16313	C6	C	A	779	194.183	98.649	-56.189	1.00	71.99	A16S
ATOM	16314	C2	C	A	779	192.330	97.725	-55.008	1.00	71.99	A16S
ATOM	16315	O2	C	A	779	191.426	97.883	-54.181	1.00	71.99	A16S
ATOM	16316	N3	C	A	779	192.503	96.555	-55.659	1.00	71.99	A16S
ATOM	16317	C4	C	A	779	193.482	96.429	-56.549	1.00	71.99	A16S



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ATOM	16318	N4	C	A	779	193.612	95.261	-57.161	1.00	71.99	A16S
ATOM	16319	C5	C	A	779	194.367	97.499	-56.847	1.00	71.99	A16S
ATOM	16320	C2*	C	A	779	193.634	100.016	-53.156	1.00	64.95	A16S
ATOM	16321	O2*	C	A	779	192.824	100.651	-52.190	1.00	64.95	A16S
ATOM	16322	C3*	C	A	779	194.914	100.782	-53.414	1.00	64.95	A16S
ATOM	16323	O3*	C	A	779	195.346	101.417	-52.231	1.00	64.95	A16S
ATOM	16324	P	A	A	780	196.285	100.611	-51.220	1.00	54.38	A16S
ATOM	16325	O1P	A	A	780	196.409	101.401	-49.960	1.00	83.34	A16S
ATOM	16326	O2P	A	A	780	197.519	100.255	-51.980	1.00	83.34	A16S
ATOM	16327	O5*	A	A	780	195.454	99.274	-50.931	1.00	54.38	A16S
ATOM	16328	C5*	A	A	780	194.381	99.254	-49.963	1.00	54.38	A16S
ATOM	16329	C4*	A	A	780	193.727	97.881	-49.896	1.00	54.38	A16S
ATOM	16330	O4*	A	A	780	193.333	97.486	-51.236	1.00	54.38	A16S
ATOM	16331	C1*	A	A	780	193.421	96.077	-51.363	1.00	54.38	A16S
ATOM	16332	N9	A	A	780	194.334	95.752	-52.463	1.00	83.34	A16S
ATOM	16333	C4	A	A	780	194.205	94.686	-53.321	1.00	83.34	A16S
ATOM	16334	N3	A	A	780	193.232	93.761	-53.330	1.00	83.34	A16S
ATOM	16335	C2	A	A	780	193.441	92.878	-54.296	1.00	83.34	A16S
ATOM	16336	N1	A	A	780	194.433	92.816	-55.184	1.00	83.34	A16S
ATOM	16337	C6	A	A	780	195.393	93.762	-55.145	1.00	83.34	A16S
ATOM	16338	N6	A	A	780	196.385	93.709	-56.031	1.00	83.34	A16S
ATOM	16339	C5	A	A	780	195.292	94.753	-54.172	1.00	83.34	A16S
ATOM	16340	N7	A	A	780	196.094	95.843	-53.867	1.00	83.34	A16S
ATOM	16341	C8	A	A	780	195.483	96.406	-52.852	1.00	83.34	A16S
ATOM	16342	C2*	A	A	780	193.870	95.508	-50.014	1.00	54.38	A16S
ATOM	16343	O2*	A	A	780	192.722	95.110	-49.295	1.00	54.38	A16S
ATOM	16344	C3*	A	A	780	194.541	96.707	-49.362	1.00	54.38	A16S
ATOM	16345	O3*	A	A	780	194.419	96.564	-47.947	1.00	54.38	A16S
ATOM	16346	P	A	A	781	195.572	95.786	-47.123	1.00	65.30	A16S
ATOM	16347	O1P	A	A	781	196.159	96.738	-46.134	1.00	77.53	A16S
ATOM	16348	O2P	A	A	781	196.451	95.113	-48.110	1.00	77.53	A16S
ATOM	16349	O5*	A	A	781	194.852	94.644	-46.278	1.00	65.30	A16S
ATOM	16350	C5*	A	A	781	193.867	93.830	-46.867	1.00	65.30	A16S
ATOM	16351	C4*	A	A	781	192.939	93.305	-45.814	1.00	65.30	A16S
ATOM	16352	O4*	A	A	781	191.758	92.827	-46.492	1.00	65.30	A16S
ATOM	16353	C1*	A	A	781	191.374	91.584	-45.953	1.00	65.30	A16S
ATOM	16354	N9	A	A	781	191.585	90.564	-46.982	1.00	77.53	A16S
ATOM	16355	C4	A	A	781	191.080	89.291	-46.964	1.00	77.53	A16S
ATOM	16356	N3	A	A	781	190.325	88.728	-46.005	1.00	77.53	A16S
ATOM	16357	C2	A	A	781	190.012	87.485	-46.333	1.00	77.53	A16S
ATOM	16358	N1	A	A	781	190.334	86.795	-47.428	1.00	77.53	A16S
ATOM	16359	C6	A	A	781	191.088	87.402	-48.375	1.00	77.53	A16S
ATOM	16360	N6	A	A	781	191.391	86.732	-49.488	1.00	77.53	A16S
ATOM	16361	C5	A	A	781	191.499	88.708	-48.140	1.00	77.53	A16S
ATOM	16362	N7	A	A	781	192.271	89.588	-48.883	1.00	77.53	A16S
ATOM	16363	C8	A	A	781	192.297	90.670	-48.154	1.00	77.53	A16S
ATOM	16364	C2*	A	A	781	192.196	91.357	-44.687	1.00	65.30	A16S
ATOM	16365	O2*	A	A	781	191.476	91.950	-43.633	1.00	65.30	A16S
ATOM	16366	C3*	A	A	781	193.467	92.131	-44.997	1.00	65.30	A16S
ATOM	16367	O3*	A	A	781	194.081	92.562	-43.783	1.00	65.30	A16S
ATOM	16368	P	A	A	782	195.426	91.848	-43.251	1.00	54.23	A16S
ATOM	16369	O1P	A	A	782	195.367	91.847	-41.774	1.00	67.63	A16S
ATOM	16370	O2P	A	A	782	196.583	92.500	-43.938	1.00	67.63	A16S
ATOM	16371	O5*	A	A	782	195.323	90.326	-43.710	1.00	54.23	A16S
ATOM	16372	C5*	A	A	782	194.433	89.418	-43.061	1.00	54.23	A16S
ATOM	16373	C4*	A	A	782	194.369	88.112	-43.820	1.00	54.23	A16S
ATOM	16374	O4*	A	A	782	193.860	88.335	-45.164	1.00	54.23	A16S
ATOM	16375	C1*	A	A	782	194.467	87.420	-46.061	1.00	54.23	A16S
ATOM	16376	N9	A	A	782	195.229	88.176	-47.049	1.00	67.63	A16S
ATOM	16377	C4	A	A	782	195.723	87.692	-48.239	1.00	67.63	A16S
ATOM	16378	N3	A	A	782	195.594	86.450	-48.735	1.00	67.63	A16S
ATOM	16379	C2	A	A	782	196.191	86.355	-49.913	1.00	67.63	A16S
ATOM	16380	N1	A	A	782	196.846	87.284	-50.605	1.00	67.63	A16S
ATOM	16381	C6	A	A	782	196.954	88.522	-50.082	1.00	67.63	A16S
ATOM	16382	N6	A	A	782	197.592	89.463	-50.781	1.00	67.63	A16S
ATOM	16383	C5	A	A	782	196.376	88.752	-48.833	1.00	67.63	A16S
ATOM	16384	N7	A	A	782	196.306	89.883	-48.033	1.00	67.63	A16S
ATOM	16385	C8	A	A	782	195.615	89.491	-46.991	1.00	67.63	A16S
ATOM	16386	C2*	A	A	782	195.401	86.531	-45.249	1.00	54.23	A16S
ATOM	16387	O2*	A	A	782	194.731	85.345	-44.894	1.00	54.23	A16S
ATOM	16388	C3*	A	A	782	195.692	87.412	-44.047	1.00	54.23	A16S
ATOM	16389	O3*	A	A	782	196.082	86.639	-42.937	1.00	54.23	A16S
ATOM	16390	P	C	A	783	197.620	86.652	-42.473	1.00	74.43	A16S
ATOM	16391	O1P	C	A	783	197.808	85.542	-41.477	1.00	57.42	A16S
ATOM	16392	O2P	C	A	783	197.963	88.066	-42.118	1.00	57.42	A16S
ATOM	16393	O5*	C	A	783	198.446	86.311	-43.785	1.00	74.43	A16S
ATOM	16394	C5*	C	A	783	198.386	85.011	-44.366	1.00	74.43	A16S



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ATOM	16395	C4*	C	A	783	199.096	85.015	-45.692	1.00	74.43	A16S
ATOM	16396	O4*	C	A	783	198.467	85.993	-46.555	1.00	74.43	A16S
ATOM	16397	C1*	C	A	783	199.432	86.552	-47.412	1.00	74.43	A16S
ATOM	16398	N1	C	A	783	199.440	87.999	-47.215	1.00	57.42	A16S
ATOM	16399	C6	C	A	783	199.032	88.555	-46.036	1.00	57.42	A16S
ATOM	16400	C2	C	A	783	199.884	88.816	-48.269	1.00	57.42	A16S
ATOM	16401	O2	C	A	783	200.260	88.280	-49.340	1.00	57.42	A16S
ATOM	16402	N3	C	A	783	199.897	90.160	-48.099	1.00	57.42	A16S
ATOM	16403	C4	C	A	783	199.499	90.687	-46.946	1.00	57.42	A16S
ATOM	16404	N4	C	A	783	199.533	92.002	-46.833	1.00	57.42	A16S
ATOM	16405	C5	C	A	783	199.048	89.880	-45.860	1.00	57.42	A16S
ATOM	16406	C2*	C	A	783	200.778	85.903	-47.098	1.00	74.43	A16S
ATOM	16407	O2*	C	A	783	200.954	84.819	-47.983	1.00	74.43	A16S
ATOM	16408	C3*	C	A	783	200.562	85.415	-45.676	1.00	74.43	A16S
ATOM	16409	O3*	C	A	783	201.398	84.305	-45.368	1.00	74.43	A16S
ATOM	16410	P	C	A	784	202.911	84.562	-44.883	1.00	76.90	A16S
ATOM	16411	O1P	C	A	784	203.528	83.226	-44.725	1.00	72.44	A16S
ATOM	16412	O2P	C	A	784	202.928	85.514	-43.743	1.00	72.44	A16S
ATOM	16413	O5*	C	A	784	203.587	85.269	-46.138	1.00	76.90	A16S
ATOM	16414	C5*	C	A	784	203.853	84.511	-47.329	1.00	76.90	A16S
ATOM	16415	C4*	C	A	784	204.813	85.253	-48.209	1.00	76.90	A16S
ATOM	16416	O4*	C	A	784	204.142	86.364	-48.844	1.00	76.90	A16S
ATOM	16417	C1*	C	A	784	205.032	87.458	-48.947	1.00	76.90	A16S
ATOM	16418	N1	C	A	784	204.424	88.625	-48.280	1.00	72.44	A16S
ATOM	16419	C6	C	A	784	203.529	88.465	-47.261	1.00	72.44	A16S
ATOM	16420	C2	C	A	784	204.778	89.922	-48.715	1.00	72.44	A16S
ATOM	16421	O2	C	A	784	205.593	90.049	-49.637	1.00	72.44	A16S
ATOM	16422	N3	C	A	784	204.220	90.995	-48.120	1.00	72.44	A16S
ATOM	16423	C4	C	A	784	203.343	90.825	-47.135	1.00	72.44	A16S
ATOM	16424	N4	C	A	784	202.811	91.911	-46.587	1.00	72.44	A16S
ATOM	16425	C5	C	A	784	202.969	89.526	-46.668	1.00	72.44	A16S
ATOM	16426	C2*	C	A	784	206.374	87.034	-48.346	1.00	76.90	A16S
ATOM	16427	O2*	C	A	784	207.271	86.626	-49.355	1.00	76.90	A16S
ATOM	16428	C3*	C	A	784	205.965	85.874	-47.455	1.00	76.90	A16S
ATOM	16429	O3*	C	A	784	207.013	84.943	-47.259	1.00	76.90	A16S
ATOM	16430	P	G	A	785	208.243	85.332	-46.302	1.00	71.86	A16S
ATOM	16431	O1P	G	A	785	209.270	84.282	-46.543	1.00	64.75	A16S
ATOM	16432	O2P	G	A	785	207.765	85.586	-44.904	1.00	64.75	A16S
ATOM	16433	O5*	G	A	785	208.757	86.696	-46.940	1.00	71.86	A16S
ATOM	16434	C5*	G	A	785	209.363	87.712	-46.140	1.00	71.86	A16S
ATOM	16435	C4*	G	A	785	209.838	88.833	-47.025	1.00	71.86	A16S
ATOM	16436	O4*	G	A	785	208.694	89.432	-47.686	1.00	71.86	A16S
ATOM	16437	C1*	G	A	785	208.878	90.836	-47.791	1.00	71.86	A16S
ATOM	16438	N9	G	A	785	207.844	91.498	-46.998	1.00	64.75	A16S
ATOM	16439	C4	G	A	785	207.658	92.855	-46.877	1.00	64.75	A16S
ATOM	16440	N3	G	A	785	208.395	93.815	-47.480	1.00	64.75	A16S
ATOM	16441	C2	G	A	785	207.983	95.030	-47.157	1.00	64.75	A16S
ATOM	16442	N2	G	A	785	208.616	96.095	-47.650	1.00	64.75	A16S
ATOM	16443	N1	G	A	785	206.925	95.278	-46.318	1.00	64.75	A16S
ATOM	16444	C6	G	A	785	206.164	94.298	-45.681	1.00	64.75	A16S
ATOM	16445	O6	G	A	785	205.247	94.619	-44.918	1.00	64.75	A16S
ATOM	16446	C5	G	A	785	206.596	93.001	-46.018	1.00	64.75	A16S
ATOM	16447	N7	G	A	785	206.116	91.766	-45.610	1.00	64.75	A16S
ATOM	16448	C8	G	A	785	206.882	90.905	-46.219	1.00	64.75	A16S
ATOM	16449	C2*	G	A	785	210.265	91.158	-47.246	1.00	71.86	A16S
ATOM	16450	O2*	G	A	785	211.184	91.216	-48.314	1.00	71.86	A16S
ATOM	16451	C3*	G	A	785	210.484	89.990	-46.297	1.00	71.86	A16S
ATOM	16452	O3*	G	A	785	211.834	89.752	-45.987	1.00	71.86	A16S
ATOM	16453	P	G	A	786	212.440	90.389	-44.647	1.00	59.96	A16S
ATOM	16454	O1P	G	A	786	213.873	89.971	-44.614	1.00	68.63	A16S
ATOM	16455	O2P	G	A	786	211.556	90.040	-43.506	1.00	68.63	A16S
ATOM	16456	O5*	G	A	786	212.374	91.963	-44.914	1.00	59.96	A16S
ATOM	16457	C5*	G	A	786	213.178	92.527	-45.953	1.00	59.96	A16S
ATOM	16458	C4*	G	A	786	213.129	94.027	-45.930	1.00	59.96	A16S
ATOM	16459	O4*	G	A	786	211.808	94.468	-46.314	1.00	59.96	A16S
ATOM	16460	C1*	G	A	786	211.514	95.693	-45.666	1.00	59.96	A16S
ATOM	16461	N9	G	A	786	210.359	95.478	-44.796	1.00	68.63	A16S
ATOM	16462	C4	G	A	786	209.619	96.446	-44.169	1.00	68.63	A16S
ATOM	16463	N3	G	A	786	209.844	97.770	-44.232	1.00	68.63	A16S
ATOM	16464	C2	G	A	786	208.949	98.455	-43.554	1.00	68.63	A16S
ATOM	16465	N2	G	A	786	209.030	99.796	-43.522	1.00	68.63	A16S
ATOM	16466	N1	G	A	786	207.910	97.879	-42.865	1.00	68.63	A16S
ATOM	16467	C6	G	A	786	207.660	96.515	-42.789	1.00	68.63	A16S
ATOM	16468	O6	G	A	786	206.678	96.097	-42.155	1.00	68.63	A16S
ATOM	16469	C5	G	A	786	208.622	95.773	-43.504	1.00	68.63	A16S
ATOM	16470	N7	G	A	786	208.748	94.405	-43.680	1.00	68.63	A16S
ATOM	16471	C8	G	A	786	209.791	94.275	-44.451	1.00	68.63	A16S



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ATOM	16472	C2* G	A 786	212.763	96.104	-44.881	1.00	59.96	A16S
ATOM	16473	O2* G	A 786	213.600	96.911	-45.696	1.00	59.96	A16S
ATOM	16474	C3* G	A 786	213.413	94.756	-44.623	1.00	59.96	A16S
ATOM	16475	O3* G	A 786	214.799	94.931	-44.354	1.00	59.96	A16S
ATOM	16476	P A	A 787	215.323	94.960	-42.822	1.00	80.16	A16S
ATOM	16477	O1P A	A 787	216.803	95.166	-42.929	1.00	66.19	A16S
ATOM	16478	O2P A	A 787	214.798	93.763	-42.086	1.00	66.19	A16S
ATOM	16479	O5* A	A 787	214.651	96.260	-42.172	1.00	80.16	A16S
ATOM	16480	C5* A	A 787	215.087	97.575	-42.549	1.00	80.16	A16S
ATOM	16481	C4* A	A 787	214.118	98.636	-42.065	1.00	80.16	A16S
ATOM	16482	O4* A	A 787	212.775	98.291	-42.476	1.00	80.16	A16S
ATOM	16483	C1* A	A 787	211.846	98.831	-41.558	1.00	80.16	A16S
ATOM	16484	N9 A	A 787	211.039	97.749	-40.999	1.00	66.19	A16S
ATOM	16485	C4 A	A 787	209.878	97.919	-40.284	1.00	66.19	A16S
ATOM	16486	N3 A	A 787	209.293	99.081	-39.948	1.00	66.19	A16S
ATOM	16487	C2 A	A 787	208.170	98.856	-39.294	1.00	66.19	A16S
ATOM	16488	N1 A	A 787	207.604	97.695	-38.962	1.00	66.19	A16S
ATOM	16489	C6 A	A 787	208.218	96.550	-39.314	1.00	66.19	A16S
ATOM	16490	N6 A	A 787	207.643	95.392	-39.000	1.00	66.19	A16S
ATOM	16491	C5 A	A 787	209.421	96.648	-40.002	1.00	66.19	A16S
ATOM	16492	N7 A	A 787	210.292	95.689	-40.499	1.00	66.19	A16S
ATOM	16493	C8 A	A 787	211.237	96.391	-41.077	1.00	66.19	A16S
ATOM	16494	C2* A	A 787	212.627	99.572	-40.485	1.00	80.16	A16S
ATOM	16495	O2* A	A 787	212.657	100.927	-40.876	1.00	80.16	A16S
ATOM	16496	C3* A	A 787	213.987	98.895	-40.573	1.00	80.16	A16S
ATOM	16497	O3* A	A 787	214.995	99.773	-40.104	1.00	80.16	A16S
ATOM	16498	P U	A 788	215.449	99.707	-38.566	1.00	74.16	A16S
ATOM	16499	O1P U	A 788	216.518	100.720	-38.389	1.00	62.89	A16S
ATOM	16500	O2P U	A 788	215.712	98.287	-38.212	1.00	62.89	A16S
ATOM	16501	O5* U	A 788	214.161	100.178	-37.750	1.00	74.16	A16S
ATOM	16502	C5* U	A 788	213.708	101.559	-37.769	1.00	74.16	A16S
ATOM	16503	C4* U	A 788	212.504	101.726	-36.865	1.00	74.16	A16S
ATOM	16504	O4* U	A 788	211.372	101.024	-37.431	1.00	74.16	A16S
ATOM	16505	C1* U	A 788	210.623	100.413	-36.395	1.00	74.16	A16S
ATOM	16506	N1 U	A 788	210.637	98.961	-36.604	1.00	62.89	A16S
ATOM	16507	C6 U	A 788	211.685	98.343	-37.237	1.00	62.89	A16S
ATOM	16508	C2 U	A 788	209.564	98.234	-36.129	1.00	62.89	A16S
ATOM	16509	O2 U	A 788	208.606	98.757	-35.576	1.00	62.89	A16S
ATOM	16510	N3 U	A 788	209.654	96.874	-36.331	1.00	62.89	A16S
ATOM	16511	C4 U	A 788	210.685	96.198	-36.957	1.00	62.89	A16S
ATOM	16512	O4 U	A 788	210.629	94.978	-37.081	1.00	62.89	A16S
ATOM	16513	C5 U	A 788	211.742	97.026	-37.424	1.00	62.89	A16S
ATOM	16514	C2* U	A 788	211.255	100.785	-35.055	1.00	74.16	A16S
ATOM	16515	O2* U	A 788	210.523	101.852	-34.492	1.00	74.16	A16S
ATOM	16516	C3* U	A 788	212.678	101.142	-35.469	1.00	74.16	A16S
ATOM	16517	O3* U	A 788	213.263	102.103	-34.596	1.00	74.16	A16S
ATOM	16518	P U	A 789	214.236	101.621	-33.416	1.00	81.86	A16S
ATOM	16519	O1P U	A 789	214.549	102.835	-32.601	1.00	84.84	A16S
ATOM	16520	O2P U	A 789	215.335	100.822	-34.019	1.00	84.84	A16S
ATOM	16521	O5* U	A 789	213.321	100.646	-32.558	1.00	81.86	A16S
ATOM	16522	C5* U	A 789	212.188	101.172	-31.880	1.00	81.86	A16S
ATOM	16523	C4* U	A 789	211.409	100.077	-31.214	1.00	81.86	A16S
ATOM	16524	O4* U	A 789	210.700	99.287	-32.197	1.00	81.86	A16S
ATOM	16525	C1* U	A 789	210.534	97.972	-31.701	1.00	81.86	A16S
ATOM	16526	N1 U	A 789	211.144	97.016	-32.643	1.00	84.84	A16S
ATOM	16527	C6 U	A 789	212.182	97.375	-33.476	1.00	84.84	A16S
ATOM	16528	C2 U	A 789	210.655	95.722	-32.645	1.00	84.84	A16S
ATOM	16529	O2 U	A 789	209.714	95.362	-31.960	1.00	84.84	A16S
ATOM	16530	N3 U	A 789	211.306	94.858	-33.482	1.00	84.84	A16S
ATOM	16531	C4 U	A 789	212.359	95.141	-34.309	1.00	84.84	A16S
ATOM	16532	O4 U	A 789	212.882	94.224	-34.945	1.00	84.84	A16S
ATOM	16533	C5 U	A 789	212.787	96.504	-34.287	1.00	84.84	A16S
ATOM	16534	C2* U	A 789	211.178	97.916	-30.310	1.00	81.86	A16S
ATOM	16535	O2* U	A 789	210.166	98.145	-29.343	1.00	81.86	A16S
ATOM	16536	C3* U	A 789	212.178	99.068	-30.381	1.00	81.86	A16S
ATOM	16537	O3* U	A 789	212.498	99.597	-29.089	1.00	81.86	A16S
ATOM	16538	P A	A 790	213.896	99.210	-28.377	1.00	82.03	A16S
ATOM	16539	O1P A	A 790	213.882	99.836	-27.021	1.00	88.98	A16S
ATOM	16540	O2P A	A 790	215.009	99.521	-29.321	1.00	88.98	A16S
ATOM	16541	O5* A	A 790	213.793	97.630	-28.197	1.00	82.03	A16S
ATOM	16542	C5* A	A 790	214.897	96.863	-27.697	1.00	82.03	A16S
ATOM	16543	C4* A	A 790	214.397	95.568	-27.109	1.00	82.03	A16S
ATOM	16544	O4* A	A 790	213.644	95.843	-25.897	1.00	82.03	A16S
ATOM	16545	C1* A	A 790	212.522	94.974	-25.817	1.00	82.03	A16S
ATOM	16546	N9 A	A 790	211.307	95.801	-25.754	1.00	88.98	A16S
ATOM	16547	C4 A	A 790	210.139	95.511	-25.083	1.00	88.98	A16S
ATOM	16548	N3 A	A 790	209.858	94.412	-24.367	1.00	88.98	A16S



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ATOM	16549	C2	A	A 790	208.631	94.488	-23.846	1.00	88.98	A16S
ATOM	16550	N1	A	A 790	207.723	95.464	-23.948	1.00	88.98	A16S
ATOM	16551	C6	A	A 790	208.033	96.556	-24.677	1.00	88.98	A16S
ATOM	16552	N6	A	A 790	207.128	97.536	-24.777	1.00	88.98	A16S
ATOM	16553	C5	A	A 790	209.304	96.598	-25.288	1.00	88.98	A16S
ATOM	16554	N7	A	A 790	209.923	97.552	-26.087	1.00	88.98	A16S
ATOM	16555	C8	A	A 790	211.102	97.034	-26.338	1.00	88.98	A16S
ATOM	16556	C2*	A	A 790	212.588	94.018	-27.017	1.00	82.03	A16S
ATOM	16557	O2*	A	A 790	213.201	92.803	-26.635	1.00	82.03	A16S
ATOM	16558	C3*	A	A 790	213.438	94.807	-28.007	1.00	82.03	A16S
ATOM	16559	O3*	A	A 790	214.143	93.974	-28.916	1.00	82.03	A16S
ATOM	16560	P	G	A 791	213.620	93.836	-30.429	1.00	84.71	A16S
ATOM	16561	O1P	G	A 791	214.582	92.979	-31.179	1.00	88.09	A16S
ATOM	16562	O2P	G	A 791	213.291	95.190	-30.942	1.00	88.09	A16S
ATOM	16563	O5*	G	A 791	212.263	93.025	-30.273	1.00	84.71	A16S
ATOM	16564	C5*	G	A 791	212.279	91.656	-29.846	1.00	84.71	A16S
ATOM	16565	C4*	G	A 791	210.876	91.127	-29.783	1.00	84.71	A16S
ATOM	16566	O4*	G	A 791	210.199	91.658	-28.620	1.00	84.71	A16S
ATOM	16567	C1*	G	A 791	208.857	91.968	-28.948	1.00	84.71	A16S
ATOM	16568	N9	G	A 791	208.696	93.412	-28.802	1.00	88.09	A16S
ATOM	16569	C4	G	A 791	207.586	94.094	-28.356	1.00	88.09	A16S
ATOM	16570	N3	G	A 791	206.414	93.546	-27.972	1.00	88.09	A16S
ATOM	16571	C2	G	A 791	205.545	94.465	-27.585	1.00	88.09	A16S
ATOM	16572	N2	G	A 791	204.334	94.090	-27.150	1.00	88.09	A16S
ATOM	16573	N1	G	A 791	205.806	95.817	-27.589	1.00	88.09	A16S
ATOM	16574	C6	G	A 791	207.011	96.399	-27.980	1.00	88.09	A16S
ATOM	16575	O6	G	A 791	207.157	97.635	-27.939	1.00	88.09	A16S
ATOM	16576	C5	G	A 791	207.943	95.427	-28.386	1.00	88.09	A16S
ATOM	16577	N7	G	A 791	209.240	95.579	-28.845	1.00	88.09	A16S
ATOM	16578	C8	G	A 791	209.646	94.364	-29.082	1.00	88.09	A16S
ATOM	16579	C2*	G	A 791	208.619	91.481	-30.377	1.00	84.71	A16S
ATOM	16580	O2*	G	A 791	208.154	90.151	-30.333	1.00	84.71	A16S
ATOM	16581	C3*	G	A 791	210.020	91.540	-30.960	1.00	84.71	A16S
ATOM	16582	O3*	G	A 791	210.219	90.639	-32.030	1.00	84.71	A16S
ATOM	16583	P	A	A 792	209.958	91.120	-33.542	1.00	78.70	A16S
ATOM	16584	O1P	A	A 792	210.678	90.187	-34.436	1.00	79.64	A16S
ATOM	16585	O2P	A	A 792	210.196	92.583	-33.668	1.00	79.64	A16S
ATOM	16586	O5*	A	A 792	208.414	90.811	-33.762	1.00	78.70	A16S
ATOM	16587	C5*	A	A 792	207.416	91.547	-33.057	1.00	78.70	A16S
ATOM	16588	C4*	A	A 792	206.393	92.061	-34.018	1.00	78.70	A16S
ATOM	16589	O4*	A	A 792	205.491	92.919	-33.277	1.00	78.70	A16S
ATOM	16590	C1*	A	A 792	205.532	94.234	-33.788	1.00	78.70	A16S
ATOM	16591	N9	A	A 792	205.521	95.156	-32.644	1.00	79.64	A16S
ATOM	16592	C4	A	A 792	204.407	95.745	-32.085	1.00	79.64	A16S
ATOM	16593	N3	A	A 792	203.119	95.577	-32.445	1.00	79.64	A16S
ATOM	16594	C2	A	A 792	202.328	96.344	-31.719	1.00	79.64	A16S
ATOM	16595	N1	A	A 792	202.648	97.201	-30.753	1.00	79.64	A16S
ATOM	16596	C6	A	A 792	203.950	97.347	-30.416	1.00	79.64	A16S
ATOM	16597	N6	A	A 792	204.277	98.222	-29.464	1.00	79.64	A16S
ATOM	16598	C5	A	A 792	204.884	96.581	-31.095	1.00	79.64	A16S
ATOM	16599	N7	A	A 792	206.263	96.495	-30.994	1.00	79.64	A16S
ATOM	16600	C8	A	A 792	206.593	95.635	-31.924	1.00	79.64	A16S
ATOM	16601	C2*	A	A 792	206.790	94.336	-34.644	1.00	78.70	A16S
ATOM	16602	O2*	A	A 792	206.780	95.400	-35.561	1.00	78.70	A16S
ATOM	16603	C3*	A	A 792	206.975	92.901	-35.139	1.00	78.70	A16S
ATOM	16604	O3*	A	A 792	206.591	92.368	-36.441	1.00	78.70	A16S
ATOM	16605	P	U	A 793	205.233	92.811	-37.203	1.00	86.55	A16S
ATOM	16606	O1P	U	A 793	205.127	91.893	-38.363	1.00	83.79	A16S
ATOM	16607	O2P	U	A 793	205.228	94.269	-37.441	1.00	83.79	A16S
ATOM	16608	O5*	U	A 793	204.024	92.436	-36.228	1.00	86.55	A16S
ATOM	16609	C5*	U	A 793	203.859	91.099	-35.700	1.00	86.55	A16S
ATOM	16610	C4*	U	A 793	202.778	90.347	-36.452	1.00	86.55	A16S
ATOM	16611	O4*	U	A 793	202.830	88.961	-36.039	1.00	86.55	A16S
ATOM	16612	C1*	U	A 793	201.553	88.529	-35.637	1.00	86.55	A16S
ATOM	16613	N1	U	A 793	201.727	87.618	-34.498	1.00	83.79	A16S
ATOM	16614	C6	U	A 793	201.847	88.079	-33.211	1.00	83.79	A16S
ATOM	16615	C2	U	A 793	201.768	86.261	-34.776	1.00	83.79	A16S
ATOM	16616	O2	U	A 793	201.678	85.809	-35.911	1.00	83.79	A16S
ATOM	16617	N3	U	A 793	201.922	85.447	-33.681	1.00	83.79	A16S
ATOM	16618	C4	U	A 793	202.037	85.842	-32.367	1.00	83.79	A16S
ATOM	16619	O4	U	A 793	202.145	84.984	-31.485	1.00	83.79	A16S
ATOM	16620	C5	U	A 793	201.995	87.262	-32.165	1.00	83.79	A16S
ATOM	16621	C2*	U	A 793	200.728	89.773	-35.331	1.00	86.55	A16S
ATOM	16622	O2*	U	A 793	199.362	89.473	-35.571	1.00	86.55	A16S
ATOM	16623	C3*	U	A 793	201.320	90.790	-36.308	1.00	86.55	A16S
ATOM	16624	O3*	U	A 793	200.675	90.637	-37.568	1.00	86.55	A16S
ATOM	16625	P	A	A 794	199.595	91.726	-38.055	1.00	68.51	A16S



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ATOM	16626	O1P	A	A	794	198.243	91.330	-37.531	1.00	80.40	A16S
ATOM	16627	O2P	A	A	794	199.791	91.914	-39.528	1.00	80.40	A16S
ATOM	16628	O5*	A	A	794	200.056	93.063	-37.326	1.00	68.51	A16S
ATOM	16629	C5*	A	A	794	200.589	94.159	-38.081	1.00	68.51	A16S
ATOM	16630	C4*	A	A	794	200.055	95.455	-37.542	1.00	68.51	A16S
ATOM	16631	O4*	A	A	794	200.458	95.590	-36.159	1.00	68.51	A16S
ATOM	16632	C1*	A	A	794	200.714	96.945	-35.871	1.00	68.51	A16S
ATOM	16633	N9	A	A	794	202.101	97.064	-35.426	1.00	80.40	A16S
ATOM	16634	C4	A	A	794	202.603	98.013	-34.574	1.00	80.40	A16S
ATOM	16635	N3	A	A	794	201.931	99.004	-33.969	1.00	80.40	A16S
ATOM	16636	C2	A	A	794	202.753	99.741	-33.222	1.00	80.40	A16S
ATOM	16637	N1	A	A	794	204.068	99.606	-33.025	1.00	80.40	A16S
ATOM	16638	C6	A	A	794	204.708	98.591	-33.646	1.00	80.40	A16S
ATOM	16639	N6	A	A	794	206.018	98.437	-33.443	1.00	80.40	A16S
ATOM	16640	C5	A	A	794	203.953	97.748	-34.469	1.00	80.40	A16S
ATOM	16641	N7	A	A	794	204.297	96.647	-35.233	1.00	80.40	A16S
ATOM	16642	C8	A	A	794	203.165	96.276	-35.775	1.00	80.40	A16S
ATOM	16643	C2*	A	A	794	200.411	97.753	-37.137	1.00	68.51	A16S
ATOM	16644	O2*	A	A	794	199.074	98.199	-37.087	1.00	68.51	A16S
ATOM	16645	C3*	A	A	794	200.567	96.707	-38.226	1.00	68.51	A16S
ATOM	16646	O3*	A	A	794	199.760	97.018	-39.352	1.00	68.51	A16S
ATOM	16647	P	C	A	795	200.386	97.842	-40.578	1.00	66.68	A16S
ATOM	16648	O1P	C	A	795	199.404	97.807	-41.693	1.00	82.97	A16S
ATOM	16649	O2P	C	A	795	201.775	97.364	-40.806	1.00	82.97	A16S
ATOM	16650	O5*	C	A	795	200.456	99.350	-40.057	1.00	66.68	A16S
ATOM	16651	C5*	C	A	795	199.266	100.058	-39.670	1.00	66.68	A16S
ATOM	16652	C4*	C	A	795	199.615	101.215	-38.767	1.00	66.68	A16S
ATOM	16653	O4*	C	A	795	200.261	100.730	-37.564	1.00	66.68	A16S
ATOM	16654	C1*	C	A	795	201.205	101.682	-37.113	1.00	66.68	A16S
ATOM	16655	N1	C	A	795	202.512	101.027	-36.964	1.00	82.97	A16S
ATOM	16656	C6	C	A	795	202.861	99.967	-37.753	1.00	82.97	A16S
ATOM	16657	C2	C	A	795	203.412	101.521	-36.000	1.00	82.97	A16S
ATOM	16658	O2	C	A	795	203.063	102.469	-35.265	1.00	82.97	A16S
ATOM	16659	N3	C	A	795	204.632	100.950	-35.888	1.00	82.97	A16S
ATOM	16660	C4	C	A	795	204.964	99.923	-36.674	1.00	82.97	A16S
ATOM	16661	N4	C	A	795	206.181	99.395	-36.529	1.00	82.97	A16S
ATOM	16662	C5	C	A	795	204.062	99.391	-37.642	1.00	82.97	A16S
ATOM	16663	C2*	C	A	795	201.223	102.843	-38.110	1.00	66.68	A16S
ATOM	16664	O2*	C	A	795	200.467	103.935	-37.610	1.00	66.68	A16S
ATOM	16665	C3*	C	A	795	200.595	102.212	-39.345	1.00	66.68	A16S
ATOM	16666	O3*	C	A	795	199.898	103.173	-40.114	1.00	66.68	A16S
ATOM	16667	P	C	A	796	200.038	103.144	-41.704	1.00	66.98	A16S
ATOM	16668	O1P	C	A	796	199.279	104.293	-42.268	1.00	64.55	A16S
ATOM	16669	O2P	C	A	796	199.687	101.742	-42.110	1.00	64.55	A16S
ATOM	16670	O5*	C	A	796	201.591	103.394	-41.957	1.00	66.98	A16S
ATOM	16671	C5*	C	A	796	202.153	104.708	-41.805	1.00	66.98	A16S
ATOM	16672	C4*	C	A	796	203.630	104.711	-42.166	1.00	66.98	A16S
ATOM	16673	O4*	C	A	796	204.380	103.929	-41.199	1.00	66.98	A16S
ATOM	16674	C1*	C	A	796	205.458	103.277	-41.842	1.00	66.98	A16S
ATOM	16675	N1	C	A	796	205.247	101.822	-41.741	1.00	64.55	A16S
ATOM	16676	C6	C	A	796	204.015	101.308	-41.449	1.00	64.55	A16S
ATOM	16677	C2	C	A	796	206.336	100.970	-41.927	1.00	64.55	A16S
ATOM	16678	O2	C	A	796	207.433	101.456	-42.262	1.00	64.55	A16S
ATOM	16679	N3	C	A	796	206.170	99.638	-41.750	1.00	64.55	A16S
ATOM	16680	C4	C	A	796	204.973	99.152	-41.431	1.00	64.55	A16S
ATOM	16681	N4	C	A	796	204.863	97.836	-41.240	1.00	64.55	A16S
ATOM	16682	C5	C	A	796	203.835	99.993	-41.287	1.00	64.55	A16S
ATOM	16683	C2*	C	A	796	205.483	103.769	-43.281	1.00	66.98	A16S
ATOM	16684	O2*	C	A	796	206.259	104.947	-43.329	1.00	66.98	A16S
ATOM	16685	C3*	C	A	796	204.022	104.102	-43.500	1.00	66.98	A16S
ATOM	16686	O3*	C	A	796	203.851	104.962	-44.604	1.00	66.98	A16S
ATOM	16687	P	C	A	797	203.398	104.322	-46.001	1.00	64.14	A16S
ATOM	16688	O1P	C	A	797	203.089	105.427	-46.952	1.00	56.93	A16S
ATOM	16689	O2P	C	A	797	202.360	103.305	-45.668	1.00	56.93	A16S
ATOM	16690	O5*	C	A	797	204.682	103.534	-46.513	1.00	64.14	A16S
ATOM	16691	C5*	C	A	797	205.910	104.228	-46.778	1.00	64.14	A16S
ATOM	16692	C4*	C	A	797	206.941	103.271	-47.312	1.00	64.14	A16S
ATOM	16693	O4*	C	A	797	207.382	102.362	-46.266	1.00	64.14	A16S
ATOM	16694	C1*	C	A	797	207.673	101.101	-46.833	1.00	64.14	A16S
ATOM	16695	N1	C	A	797	206.794	100.104	-46.220	1.00	56.93	A16S
ATOM	16696	C6	C	A	797	205.633	100.475	-45.608	1.00	56.93	A16S
ATOM	16697	C2	C	A	797	207.157	98.748	-46.286	1.00	56.93	A16S
ATOM	16698	O2	C	A	797	208.214	98.435	-46.855	1.00	56.93	A16S
ATOM	16699	N3	C	A	797	206.345	97.814	-45.735	1.00	56.93	A16S
ATOM	16700	C4	C	A	797	205.211	98.190	-45.149	1.00	56.93	A16S
ATOM	16701	N4	C	A	797	204.439	97.245	-44.630	1.00	56.93	A16S
ATOM	16702	C5	C	A	797	204.817	99.561	-45.071	1.00	56.93	A16S



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ATOM	16703	C2*	C	A	797	207.428	101.197	-48.340	1.00	64.14	A16S
ATOM	16704	O2*	C	A	797	208.636	101.523	-48.990	1.00	64.14	A16S
ATOM	16705	C3*	C	A	797	206.455	102.358	-48.423	1.00	64.14	A16S
ATOM	16706	O3*	C	A	797	206.500	102.994	-49.689	1.00	64.14	A16S
ATOM	16707	P	G	A	798	205.507	102.499	-50.852	1.00	72.88	A16S
ATOM	16708	O1P	G	A	798	205.669	103.415	-52.006	1.00	67.29	A16S
ATOM	16709	O2P	G	A	798	204.161	102.327	-50.254	1.00	67.29	A16S
ATOM	16710	O5*	G	A	798	206.105	101.068	-51.228	1.00	72.88	A16S
ATOM	16711	C5*	G	A	798	207.470	100.965	-51.682	1.00	72.88	A16S
ATOM	16712	C4*	G	A	798	207.815	99.548	-52.061	1.00	72.88	A16S
ATOM	16713	O4*	G	A	798	208.013	98.730	-50.885	1.00	72.88	A16S
ATOM	16714	C1*	G	A	798	207.650	97.393	-51.177	1.00	72.88	A16S
ATOM	16715	N9	G	A	798	206.607	96.983	-50.249	1.00	67.29	A16S
ATOM	16716	C4	G	A	798	206.262	95.695	-49.921	1.00	67.29	A16S
ATOM	16717	N3	G	A	798	206.851	94.573	-50.377	1.00	67.29	A16S
ATOM	16718	C2	G	A	798	206.296	93.482	-49.863	1.00	67.29	A16S
ATOM	16719	N2	G	A	798	206.764	92.283	-50.178	1.00	67.29	A16S
ATOM	16720	N1	G	A	798	205.241	93.492	-48.994	1.00	67.29	A16S
ATOM	16721	C6	G	A	798	204.612	94.637	-48.522	1.00	67.29	A16S
ATOM	16722	O6	G	A	798	203.647	94.540	-47.745	1.00	67.29	A16S
ATOM	16723	C5	G	A	798	205.211	95.814	-49.046	1.00	67.29	A16S
ATOM	16724	N7	G	A	798	204.909	97.147	-48.820	1.00	67.29	A16S
ATOM	16725	C8	G	A	798	205.765	97.802	-49.552	1.00	67.29	A16S
ATOM	16726	C2*	G	A	798	207.153	97.343	-52.621	1.00	72.88	A16S
ATOM	16727	O2*	G	A	798	208.189	96.838	-53.438	1.00	72.88	A16S
ATOM	16728	C3*	G	A	798	206.790	98.803	-52.885	1.00	72.88	A16S
ATOM	16729	O3*	G	A	798	206.881	99.154	-54.256	1.00	72.88	A16S
ATOM	16730	P	G	A	799	205.702	98.725	-55.257	1.00	68.29	A16S
ATOM	16731	O1P	G	A	799	206.209	98.871	-56.662	1.00	71.45	A16S
ATOM	16732	O2P	G	A	799	204.487	99.475	-54.839	1.00	71.45	A16S
ATOM	16733	O5*	G	A	799	205.523	97.176	-54.900	1.00	68.29	A16S
ATOM	16734	C5*	G	A	799	204.483	96.370	-55.467	1.00	68.29	A16S
ATOM	16735	C4*	G	A	799	204.810	94.909	-55.276	1.00	68.29	A16S
ATOM	16736	O4*	G	A	799	205.235	94.683	-53.913	1.00	68.29	A16S
ATOM	16737	C1*	G	A	799	204.694	93.461	-53.436	1.00	68.29	A16S
ATOM	16738	N9	G	A	799	203.783	93.778	-52.345	1.00	71.45	A16S
ATOM	16739	C4	G	A	799	203.074	92.885	-51.587	1.00	71.45	A16S
ATOM	16740	N3	G	A	799	203.130	91.543	-51.685	1.00	71.45	A16S
ATOM	16741	C2	G	A	799	202.311	90.957	-50.832	1.00	71.45	A16S
ATOM	16742	N2	G	A	799	202.242	89.619	-50.774	1.00	71.45	A16S
ATOM	16743	N1	G	A	799	201.498	91.638	-49.965	1.00	71.45	A16S
ATOM	16744	C6	G	A	799	201.424	93.022	-49.856	1.00	71.45	A16S
ATOM	16745	O6	G	A	799	200.644	93.541	-49.051	1.00	71.45	A16S
ATOM	16746	C5	G	A	799	202.300	93.656	-50.746	1.00	71.45	A16S
ATOM	16747	N7	G	A	799	202.542	95.005	-50.949	1.00	71.45	A16S
ATOM	16748	C8	G	A	799	203.433	95.030	-51.899	1.00	71.45	A16S
ATOM	16749	C2*	G	A	799	203.937	92.797	-54.587	1.00	68.29	A16S
ATOM	16750	O2*	G	A	799	204.710	91.802	-55.219	1.00	68.29	A16S
ATOM	16751	C3*	G	A	799	203.626	93.987	-55.476	1.00	68.29	A16S
ATOM	16752	O3*	G	A	799	203.491	93.608	-56.824	1.00	68.29	A16S
ATOM	16753	P	G	A	800	202.043	93.646	-57.498	1.00	67.10	A16S
ATOM	16754	O1P	G	A	800	202.191	93.087	-58.863	1.00	63.73	A16S
ATOM	16755	O2P	G	A	800	201.479	95.021	-57.317	1.00	63.73	A16S
ATOM	16756	O5*	G	A	800	201.197	92.615	-56.630	1.00	67.10	A16S
ATOM	16757	C5*	G	A	800	201.577	91.243	-56.564	1.00	67.10	A16S
ATOM	16758	C4*	G	A	800	200.768	90.539	-55.508	1.00	67.10	A16S
ATOM	16759	O4*	G	A	800	201.083	91.138	-54.231	1.00	67.10	A16S
ATOM	16760	C1*	G	A	800	199.924	91.159	-53.423	1.00	67.10	A16S
ATOM	16761	N9	G	A	800	199.653	92.549	-53.092	1.00	63.73	A16S
ATOM	16762	C4	G	A	800	198.957	92.997	-52.008	1.00	63.73	A16S
ATOM	16763	N3	G	A	800	198.383	92.222	-51.069	1.00	63.73	A16S
ATOM	16764	C2	G	A	800	197.795	92.936	-50.138	1.00	63.73	A16S
ATOM	16765	N2	G	A	800	197.173	92.318	-49.137	1.00	63.73	A16S
ATOM	16766	N1	G	A	800	197.778	94.312	-50.121	1.00	63.73	A16S
ATOM	16767	C6	G	A	800	198.377	95.137	-51.071	1.00	63.73	A16S
ATOM	16768	O6	G	A	800	198.336	96.379	-50.943	1.00	63.73	A16S
ATOM	16769	C5	G	A	800	198.995	94.374	-52.092	1.00	63.73	A16S
ATOM	16770	N7	G	A	800	199.683	94.780	-53.227	1.00	63.73	A16S
ATOM	16771	C8	G	A	800	200.056	93.663	-53.789	1.00	63.73	A16S
ATOM	16772	C2*	G	A	800	198.783	90.481	-54.193	1.00	67.10	A16S
ATOM	16773	O2*	G	A	800	198.673	89.114	-53.833	1.00	67.10	A16S
ATOM	16774	C3*	G	A	800	199.248	90.634	-55.633	1.00	67.10	A16S
ATOM	16775	O3*	G	A	800	198.714	89.575	-56.430	1.00	67.10	A16S
ATOM	16776	P	U	A	801	197.415	89.829	-57.350	1.00	65.54	A16S
ATOM	16777	O1P	U	A	801	197.724	89.239	-58.689	1.00	66.14	A16S
ATOM	16778	O2P	U	A	801	196.999	91.252	-57.274	1.00	66.14	A16S
ATOM	16779	O5*	U	A	801	196.304	88.931	-56.650	1.00	65.54	A16S



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ATOM	16780	C5* U	A 801	196.324	87.516	-56.837	1.00	65.54	A16S
ATOM	16781	C4* U	A 801	195.426	86.831	-55.849	1.00	65.54	A16S
ATOM	16782	O4* U	A 801	195.958	86.983	-54.510	1.00	65.54	A16S
ATOM	16783	C1* U	A 801	194.889	87.037	-53.580	1.00	65.54	A16S
ATOM	16784	N1 U	A 801	194.889	88.359	-52.940	1.00	66.14	A16S
ATOM	16785	C6 U	A 801	195.394	89.465	-53.584	1.00	66.14	A16S
ATOM	16786	C2 U	A 801	194.330	88.461	-51.687	1.00	66.14	A16S
ATOM	16787	O2 U	A 801	193.928	87.504	-51.063	1.00	66.14	A16S
ATOM	16788	N3 U	A 801	194.270	89.730	-51.187	1.00	66.14	A16S
ATOM	16789	C4 U	A 801	194.725	90.880	-51.794	1.00	66.14	A16S
ATOM	16790	O4 U	A 801	194.503	91.967	-51.264	1.00	66.14	A16S
ATOM	16791	C5 U	A 801	195.335	90.684	-53.068	1.00	66.14	A16S
ATOM	16792	C2* U	A 801	193.595	86.865	-54.373	1.00	65.54	A16S
ATOM	16793	O2* U	A 801	193.227	85.504	-54.396	1.00	65.54	A16S
ATOM	16794	C3* U	A 801	194.015	87.361	-55.743	1.00	65.54	A16S
ATOM	16795	O3* U	A 801	193.167	86.879	-56.750	1.00	65.54	A16S
ATOM	16796	P A	A 802	191.893	87.755	-57.176	1.00	64.85	A16S
ATOM	16797	O1P A	A 802	191.353	87.197	-58.454	1.00	63.23	A16S
ATOM	16798	O2P A	A 802	192.296	89.186	-57.099	1.00	63.23	A16S
ATOM	16799	O5* A	A 802	190.819	87.460	-56.041	1.00	64.85	A16S
ATOM	16800	C5* A	A 802	190.381	86.118	-55.782	1.00	64.85	A16S
ATOM	16801	C4* A	A 802	189.581	86.071	-54.509	1.00	64.85	A16S
ATOM	16802	O4* A	A 802	190.412	86.488	-53.392	1.00	64.85	A16S
ATOM	16803	C1* A	A 802	189.645	87.255	-52.486	1.00	64.85	A16S
ATOM	16804	N9 A	A 802	190.205	88.605	-52.448	1.00	63.23	A16S
ATOM	16805	C4 A	A 802	190.021	89.543	-51.462	1.00	63.23	A16S
ATOM	16806	N3 A	A 802	189.309	89.410	-50.330	1.00	63.23	A16S
ATOM	16807	C2 A	A 802	189.365	90.528	-49.608	1.00	63.23	A16S
ATOM	16808	N1 A	A 802	190.005	91.680	-49.869	1.00	63.23	A16S
ATOM	16809	C6 A	A 802	190.708	91.780	-51.020	1.00	63.23	A16S
ATOM	16810	N6 A	A 802	191.343	92.927	-51.286	1.00	63.23	A16S
ATOM	16811	C5 A	A 802	190.726	90.660	-51.871	1.00	63.23	A16S
ATOM	16812	N7 A	A 802	191.339	90.430	-53.089	1.00	63.23	A16S
ATOM	16813	C8 A	A 802	191.003	89.202	-53.385	1.00	63.23	A16S
ATOM	16814	C2* A	A 802	188.201	87.251	-52.992	1.00	64.85	A16S
ATOM	16815	O2* A	A 802	187.484	86.204	-52.362	1.00	64.85	A16S
ATOM	16816	C3* A	A 802	188.393	87.009	-54.481	1.00	64.85	A16S
ATOM	16817	O3* A	A 802	187.259	86.392	-55.064	1.00	64.85	A16S
ATOM	16818	P G	A 803	186.304	87.239	-56.035	1.00	60.18	A16S
ATOM	16819	O1P G	A 803	185.031	86.475	-56.147	1.00	76.25	A16S
ATOM	16820	O2P G	A 803	187.050	87.625	-57.262	1.00	76.25	A16S
ATOM	16821	O5* G	A 803	186.019	88.579	-55.237	1.00	60.18	A16S
ATOM	16822	C5* G	A 803	185.287	88.545	-54.018	1.00	60.18	A16S
ATOM	16823	C4* G	A 803	185.471	89.836	-53.280	1.00	60.18	A16S
ATOM	16824	O4* G	A 803	186.888	90.031	-53.053	1.00	60.18	A16S
ATOM	16825	C1* G	A 803	187.188	91.404	-53.123	1.00	60.18	A16S
ATOM	16826	N9 G	A 803	188.162	91.616	-54.184	1.00	76.25	A16S
ATOM	16827	C4 G	A 803	188.991	92.695	-54.280	1.00	76.25	A16S
ATOM	16828	N3 G	A 803	189.092	93.687	-53.374	1.00	76.25	A16S
ATOM	16829	C2 G	A 803	189.946	94.612	-53.746	1.00	76.25	A16S
ATOM	16830	N2 G	A 803	190.190	95.647	-52.930	1.00	76.25	A16S
ATOM	16831	N1 G	A 803	190.630	94.582	-54.938	1.00	76.25	A16S
ATOM	16832	C6 G	A 803	190.539	93.572	-55.889	1.00	76.25	A16S
ATOM	16833	O6 G	A 803	191.191	93.654	-56.934	1.00	76.25	A16S
ATOM	16834	C5 G	A 803	189.644	92.552	-55.478	1.00	76.25	A16S
ATOM	16835	N7 G	A 803	189.269	91.370	-56.103	1.00	76.25	A16S
ATOM	16836	C8 G	A 803	188.396	90.841	-55.291	1.00	76.25	A16S
ATOM	16837	C2* G	A 803	185.886	92.164	-53.405	1.00	60.18	A16S
ATOM	16838	O2* G	A 803	185.346	92.650	-52.193	1.00	60.18	A16S
ATOM	16839	C3* G	A 803	185.022	91.079	-54.028	1.00	60.18	A16S
ATOM	16840	O3* G	A 803	183.638	91.319	-53.813	1.00	60.18	A16S
ATOM	16841	P U	A 804	182.741	91.954	-54.989	1.00	55.25	A16S
ATOM	16842	O1P U	A 804	181.388	92.094	-54.390	1.00	76.57	A16S
ATOM	16843	O2P U	A 804	182.904	91.200	-56.273	1.00	76.57	A16S
ATOM	16844	O5* U	A 804	183.313	93.425	-55.178	1.00	55.25	A16S
ATOM	16845	C5* U	A 804	182.952	94.440	-54.251	1.00	55.25	A16S
ATOM	16846	C4* U	A 804	183.888	95.600	-54.356	1.00	55.25	A16S
ATOM	16847	O4* U	A 804	185.254	95.120	-54.338	1.00	55.25	A16S
ATOM	16848	C1* U	A 804	186.073	96.005	-55.082	1.00	55.25	A16S
ATOM	16849	N1 U	A 804	186.823	95.243	-56.097	1.00	76.57	A16S
ATOM	16850	C6 U	A 804	186.574	93.921	-56.340	1.00	76.57	A16S
ATOM	16851	C2 U	A 804	187.793	95.915	-56.816	1.00	76.57	A16S
ATOM	16852	O2 U	A 804	188.075	97.081	-56.624	1.00	76.57	A16S
ATOM	16853	N3 U	A 804	188.427	95.175	-57.769	1.00	76.57	A16S
ATOM	16854	C4 U	A 804	188.214	93.865	-58.073	1.00	76.57	A16S
ATOM	16855	O4 U	A 804	188.872	93.343	-58.975	1.00	76.57	A16S
ATOM	16856	C5 U	A 804	187.218	93.228	-57.279	1.00	76.57	A16S



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ATOM	16857	C2*	U	A 804	185.162	97.093	-55.666	1.00	55.25	A16S
ATOM	16858	O2*	U	A 804	185.202	98.257	-54.851	1.00	55.25	A16S
ATOM	16859	C3*	U	A 804	183.801	96.411	-55.629	1.00	55.25	A16S
ATOM	16860	O3*	U	A 804	182.727	97.342	-55.574	1.00	55.25	A16S
ATOM	16861	P	C	A 805	181.426	97.098	-56.491	1.00	74.13	A16S
ATOM	16862	O1P	C	A 805	180.602	98.340	-56.478	1.00	61.86	A16S
ATOM	16863	O2P	C	A 805	180.823	95.788	-56.083	1.00	61.86	A16S
ATOM	16864	O5*	C	A 805	182.009	96.954	-57.961	1.00	74.13	A16S
ATOM	16865	C5*	C	A 805	182.492	98.104	-58.658	1.00	74.13	A16S
ATOM	16866	C4*	C	A 805	182.515	97.835	-60.134	1.00	74.13	A16S
ATOM	16867	O4*	C	A 805	183.638	96.989	-60.471	1.00	74.13	A16S
ATOM	16868	C1*	C	A 805	183.263	96.077	-61.483	1.00	74.13	A16S
ATOM	16869	N1	C	A 805	183.339	94.714	-60.927	1.00	61.86	A16S
ATOM	16870	C6	C	A 805	183.208	94.492	-59.583	1.00	61.86	A16S
ATOM	16871	C2	C	A 805	183.544	93.643	-61.794	1.00	61.86	A16S
ATOM	16872	O2	C	A 805	183.669	93.874	-63.008	1.00	61.86	A16S
ATOM	16873	N3	C	A 805	183.603	92.385	-61.293	1.00	61.86	A16S
ATOM	16874	C4	C	A 805	183.463	92.183	-59.983	1.00	61.86	A16S
ATOM	16875	N4	C	A 805	183.509	90.936	-59.533	1.00	61.86	A16S
ATOM	16876	C5	C	A 805	183.263	93.253	-59.075	1.00	61.86	A16S
ATOM	16877	C2*	C	A 805	181.846	96.440	-61.906	1.00	74.13	A16S
ATOM	16878	O2*	C	A 805	181.912	97.408	-62.931	1.00	74.13	A16S
ATOM	16879	C3*	C	A 805	181.314	97.070	-60.636	1.00	74.13	A16S
ATOM	16880	O3*	C	A 805	180.203	97.905	-60.855	1.00	74.13	A16S
ATOM	16881	P	C	A 806	178.738	97.298	-60.641	1.00	76.20	A16S
ATOM	16882	O1P	C	A 806	177.769	98.431	-60.695	1.00	60.56	A16S
ATOM	16883	O2P	C	A 806	178.779	96.398	-59.450	1.00	60.56	A16S
ATOM	16884	O5*	C	A 806	178.546	96.367	-61.914	1.00	76.20	A16S
ATOM	16885	C5*	C	A 806	178.699	96.899	-63.239	1.00	76.20	A16S
ATOM	16886	C4*	C	A 806	178.375	95.840	-64.250	1.00	76.20	A16S
ATOM	16887	O4*	C	A 806	179.453	94.877	-64.308	1.00	76.20	A16S
ATOM	16888	C1*	C	A 806	178.920	93.588	-64.542	1.00	76.20	A16S
ATOM	16889	N1	C	A 806	179.352	92.693	-63.461	1.00	60.56	A16S
ATOM	16890	C6	C	A 806	179.854	93.184	-62.288	1.00	60.56	A16S
ATOM	16891	C2	C	A 806	179.235	91.310	-63.654	1.00	60.56	A16S
ATOM	16892	O2	C	A 806	178.779	90.890	-64.725	1.00	60.56	A16S
ATOM	16893	N3	C	A 806	179.617	90.469	-62.677	1.00	60.56	A16S
ATOM	16894	C4	C	A 806	180.105	90.954	-61.539	1.00	60.56	A16S
ATOM	16895	N4	C	A 806	180.474	90.081	-60.610	1.00	60.56	A16S
ATOM	16896	C5	C	A 806	180.239	92.358	-61.307	1.00	60.56	A16S
ATOM	16897	C2*	C	A 806	177.397	93.707	-64.633	1.00	76.20	A16S
ATOM	16898	O2*	C	A 806	176.997	93.740	-65.982	1.00	76.20	A16S
ATOM	16899	C3*	C	A 806	177.146	95.021	-63.910	1.00	76.20	A16S
ATOM	16900	O3*	C	A 806	175.946	95.666	-64.311	1.00	76.20	A16S
ATOM	16901	P	A	A 807	174.561	95.303	-63.564	1.00	72.80	A16S
ATOM	16902	O1P	A	A 807	173.512	96.164	-64.210	1.00	70.32	A16S
ATOM	16903	O2P	A	A 807	174.744	95.350	-62.074	1.00	70.32	A16S
ATOM	16904	O5*	A	A 807	174.293	93.796	-64.013	1.00	72.80	A16S
ATOM	16905	C5*	A	A 807	174.034	93.506	-65.392	1.00	72.80	A16S
ATOM	16906	C4*	A	A 807	173.869	92.030	-65.605	1.00	72.80	A16S
ATOM	16907	O4*	A	A 807	175.106	91.352	-65.321	1.00	72.80	A16S
ATOM	16908	C1*	A	A 807	174.827	90.015	-64.950	1.00	72.80	A16S
ATOM	16909	N9	A	A 807	175.591	89.690	-63.745	1.00	70.32	A16S
ATOM	16910	C4	A	A 807	175.887	88.421	-63.327	1.00	70.32	A16S
ATOM	16911	N3	A	A 807	175.554	87.271	-63.934	1.00	70.32	A16S
ATOM	16912	C2	A	A 807	176.006	86.228	-63.242	1.00	70.32	A16S
ATOM	16913	N1	A	A 807	176.697	86.206	-62.096	1.00	70.32	A16S
ATOM	16914	C6	A	A 807	177.012	87.384	-61.511	1.00	70.32	A16S
ATOM	16915	N6	A	A 807	177.694	87.363	-60.362	1.00	70.32	A16S
ATOM	16916	C5	A	A 807	176.596	88.565	-62.153	1.00	70.32	A16S
ATOM	16917	N7	A	A 807	176.759	89.907	-61.840	1.00	70.32	A16S
ATOM	16918	C8	A	A 807	176.147	90.531	-62.814	1.00	70.32	A16S
ATOM	16919	C2*	A	A 807	173.309	89.869	-64.795	1.00	72.80	A16S
ATOM	16920	O2*	A	A 807	172.735	89.187	-65.898	1.00	72.80	A16S
ATOM	16921	C3*	A	A 807	172.869	91.323	-64.717	1.00	72.80	A16S
ATOM	16922	O3*	A	A 807	171.549	91.495	-65.174	1.00	72.80	A16S
ATOM	16923	P	C	A 808	170.392	91.762	-64.105	1.00	73.52	A16S
ATOM	16924	O1P	C	A 808	169.221	92.253	-64.881	1.00	76.38	A16S
ATOM	16925	O2P	C	A 808	170.950	92.603	-62.999	1.00	76.38	A16S
ATOM	16926	O5*	C	A 808	170.079	90.304	-63.538	1.00	73.52	A16S
ATOM	16927	C5*	C	A 808	169.504	89.302	-64.389	1.00	73.52	A16S
ATOM	16928	C4*	C	A 808	169.659	87.931	-63.778	1.00	73.52	A16S
ATOM	16929	O4*	C	A 808	171.058	87.533	-63.774	1.00	73.52	A16S
ATOM	16930	C1*	C	A 808	171.309	86.693	-62.660	1.00	73.52	A16S
ATOM	16931	N1	C	A 808	172.339	87.308	-61.801	1.00	76.38	A16S
ATOM	16932	C6	C	A 808	172.527	88.662	-61.762	1.00	76.38	A16S
ATOM	16933	C2	C	A 808	173.111	86.465	-60.984	1.00	76.38	A16S



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ATOM	16934	O2	C	A	808	172.959	85.232	-61.083	1.00	76.38	A16S
ATOM	16935	N3	C	A	808	174.005	87.013	-60.119	1.00	76.38	A16S
ATOM	16936	C4	C	A	808	174.156	88.337	-60.071	1.00	76.38	A16S
ATOM	16937	N4	C	A	808	175.028	88.835	-59.192	1.00	76.38	A16S
ATOM	16938	C5	C	A	808	173.415	89.213	-60.921	1.00	76.38	A16S
ATOM	16939	C2*	C	A	808	169.998	86.543	-61.889	1.00	73.52	A16S
ATOM	16940	O2*	C	A	808	169.347	85.345	-62.257	1.00	73.52	A16S
ATOM	16941	C3*	C	A	808	169.237	87.783	-62.329	1.00	73.52	A16S
ATOM	16942	O3*	C	A	808	167.838	87.641	-62.152	1.00	73.52	A16S
ATOM	16943	P	G	A	809	167.142	88.315	-60.863	1.00	72.03	A16S
ATOM	16944	O1P	G	A	809	165.675	88.374	-61.154	1.00	71.20	A16S
ATOM	16945	O2P	G	A	809	167.881	89.577	-60.554	1.00	71.20	A16S
ATOM	16946	O5*	G	A	809	167.450	87.289	-59.677	1.00	72.03	A16S
ATOM	16947	C5*	G	A	809	167.107	85.919	-59.826	1.00	72.03	A16S
ATOM	16948	C4*	G	A	809	167.935	85.049	-58.921	1.00	72.03	A16S
ATOM	16949	O4*	G	A	809	169.347	85.197	-59.202	1.00	72.03	A16S
ATOM	16950	C1*	G	A	809	170.089	84.751	-58.076	1.00	72.03	A16S
ATOM	16951	N9	G	A	809	171.066	85.764	-57.679	1.00	71.20	A16S
ATOM	16952	C4	G	A	809	172.067	85.581	-56.751	1.00	71.20	A16S
ATOM	16953	N3	G	A	809	172.328	84.436	-56.089	1.00	71.20	A16S
ATOM	16954	C2	G	A	809	173.336	84.569	-55.253	1.00	71.20	A16S
ATOM	16955	N2	G	A	809	173.731	83.515	-54.526	1.00	71.20	A16S
ATOM	16956	N1	G	A	809	174.030	85.738	-55.068	1.00	71.20	A16S
ATOM	16957	C6	G	A	809	173.775	86.932	-55.728	1.00	71.20	A16S
ATOM	16958	O6	G	A	809	174.446	87.933	-55.465	1.00	71.20	A16S
ATOM	16959	C5	G	A	809	172.701	86.799	-56.648	1.00	71.20	A16S
ATOM	16960	N7	G	A	809	172.131	87.726	-57.512	1.00	71.20	A16S
ATOM	16961	C8	G	A	809	171.169	87.068	-58.106	1.00	71.20	A16S
ATOM	16962	C2*	G	A	809	169.091	84.502	-56.948	1.00	72.03	A16S
ATOM	16963	O2*	G	A	809	168.818	83.118	-56.872	1.00	72.03	A16S
ATOM	16964	C3*	G	A	809	167.881	85.288	-57.429	1.00	72.03	A16S
ATOM	16965	O3*	G	A	809	166.717	84.778	-56.836	1.00	72.03	A16S
ATOM	16966	P	C	A	810	166.131	85.496	-55.526	1.00	74.99	A16S
ATOM	16967	O1P	C	A	810	164.940	84.669	-55.174	1.00	58.72	A16S
ATOM	16968	O2P	C	A	810	165.956	86.951	-55.798	1.00	58.72	A16S
ATOM	16969	O5*	C	A	810	167.279	85.319	-54.413	1.00	74.99	A16S
ATOM	16970	C5*	C	A	810	167.317	84.118	-53.607	1.00	74.99	A16S
ATOM	16971	C4*	C	A	810	168.534	84.049	-52.691	1.00	74.99	A16S
ATOM	16972	O4*	C	A	810	169.773	84.410	-53.355	1.00	74.99	A16S
ATOM	16973	C1*	C	A	810	170.766	84.668	-52.374	1.00	74.99	A16S
ATOM	16974	N1	C	A	810	171.364	85.999	-52.600	1.00	58.72	A16S
ATOM	16975	C6	C	A	810	170.739	86.928	-53.377	1.00	58.72	A16S
ATOM	16976	C2	C	A	810	172.591	86.307	-51.993	1.00	58.72	A16S
ATOM	16977	O2	C	A	810	173.138	85.461	-51.284	1.00	58.72	A16S
ATOM	16978	N3	C	A	810	173.145	87.524	-52.191	1.00	58.72	A16S
ATOM	16979	C4	C	A	810	172.523	88.419	-52.953	1.00	58.72	A16S
ATOM	16980	N4	C	A	810	173.100	89.599	-53.132	1.00	58.72	A16S
ATOM	16981	C5	C	A	810	171.277	88.141	-53.573	1.00	58.72	A16S
ATOM	16982	C2*	C	A	810	170.074	84.585	-51.017	1.00	74.99	A16S
ATOM	16983	O2*	C	A	810	170.252	83.258	-50.549	1.00	74.99	A16S
ATOM	16984	C3*	C	A	810	168.613	84.824	-51.389	1.00	74.99	A16S
ATOM	16985	O3*	C	A	810	167.791	84.258	-50.378	1.00	74.99	A16S
ATOM	16986	P	C	A	811	167.299	85.171	-49.137	1.00	62.07	A16S
ATOM	16987	O1P	C	A	811	166.703	84.256	-48.119	1.00	64.12	A16S
ATOM	16988	O2P	C	A	811	166.499	86.320	-49.658	1.00	64.12	A16S
ATOM	16989	O5*	C	A	811	168.640	85.750	-48.507	1.00	62.07	A16S
ATOM	16990	C5*	C	A	811	169.528	84.896	-47.783	1.00	62.07	A16S
ATOM	16991	C4*	C	A	811	170.722	85.677	-47.327	1.00	62.07	A16S
ATOM	16992	O4*	C	A	811	171.264	86.366	-48.475	1.00	62.07	A16S
ATOM	16993	C1*	C	A	811	171.953	87.511	-48.035	1.00	62.07	A16S
ATOM	16994	N1	C	A	811	171.682	88.642	-48.934	1.00	64.12	A16S
ATOM	16995	C6	C	A	811	170.716	88.581	-49.901	1.00	64.12	A16S
ATOM	16996	C2	C	A	811	172.432	89.807	-48.761	1.00	64.12	A16S
ATOM	16997	O2	C	A	811	173.322	89.817	-47.902	1.00	64.12	A16S
ATOM	16998	N3	C	A	811	172.169	90.889	-49.527	1.00	64.12	A16S
ATOM	16999	C4	C	A	811	171.192	90.837	-50.435	1.00	64.12	A16S
ATOM	17000	N4	C	A	811	170.916	91.948	-51.110	1.00	64.12	A16S
ATOM	17001	C5	C	A	811	170.441	89.646	-50.670	1.00	64.12	A16S
ATOM	17002	C2*	C	A	811	171.606	87.757	-46.563	1.00	62.07	A16S
ATOM	17003	O2*	C	A	811	172.756	87.469	-45.798	1.00	62.07	A16S
ATOM	17004	C3*	C	A	811	170.449	86.784	-46.317	1.00	62.07	A16S
ATOM	17005	O3*	C	A	811	170.512	86.253	-44.983	1.00	62.07	A16S
ATOM	17006	P	C	A	812	169.330	86.549	-43.924	1.00	70.20	A16S
ATOM	17007	O1P	C	A	812	169.861	86.063	-42.615	1.00	59.79	A16S
ATOM	17008	O2P	C	A	812	168.037	86.015	-44.433	1.00	59.79	A16S
ATOM	17009	O5*	C	A	812	169.185	88.140	-43.906	1.00	70.20	A16S
ATOM	17010	C5*	C	A	812	169.634	88.935	-42.783	1.00	70.20	A16S



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ATOM	17011	C4* C	A 812	169.224	90.381	-42.968	1.00	70.20	A16S
ATOM	17012	O4* C	A 812	169.590	90.754	-44.312	1.00	70.20	A16S
ATOM	17013	C1* C	A 812	168.699	91.726	-44.794	1.00	70.20	A16S
ATOM	17014	N1 C	A 812	168.401	91.465	-46.208	1.00	59.79	A16S
ATOM	17015	C6 C	A 812	167.725	90.343	-46.580	1.00	59.79	A16S
ATOM	17016	C2 C	A 812	168.823	92.409	-47.191	1.00	59.79	A16S
ATOM	17017	O2 C	A 812	169.483	93.411	-46.851	1.00	59.79	A16S
ATOM	17018	N3 C	A 812	168.514	92.193	-48.482	1.00	59.79	A16S
ATOM	17019	C4 C	A 812	167.840	91.091	-48.828	1.00	59.79	A16S
ATOM	17020	N4 C	A 812	167.545	90.920	-50.128	1.00	59.79	A16S
ATOM	17021	C5 C	A 812	167.430	90.113	-47.862	1.00	59.79	A16S
ATOM	17022	C2* C	A 812	167.522	91.861	-43.828	1.00	70.20	A16S
ATOM	17023	O2* C	A 812	167.671	93.108	-43.211	1.00	70.20	A16S
ATOM	17024	C3* C	A 812	167.731	90.685	-42.879	1.00	70.20	A16S
ATOM	17025	O3* C	A 812	167.304	90.862	-41.492	1.00	70.20	A16S
ATOM	17026	P U	A 813	167.465	92.291	-40.691	1.00	62.19	A16S
ATOM	17027	O1P U	A 813	167.211	91.863	-39.286	1.00	66.70	A16S
ATOM	17028	O2P U	A 813	166.692	93.450	-41.241	1.00	66.70	A16S
ATOM	17029	O5* U	A 813	169.013	92.653	-40.720	1.00	62.19	A16S
ATOM	17030	C5* U	A 813	169.914	91.943	-39.874	1.00	62.19	A16S
ATOM	17031	C4* U	A 813	171.236	92.634	-39.836	1.00	62.19	A16S
ATOM	17032	O4* U	A 813	171.786	92.684	-41.169	1.00	62.19	A16S
ATOM	17033	C1* U	A 813	172.560	93.852	-41.310	1.00	62.19	A16S
ATOM	17034	N1 U	A 813	172.043	94.627	-42.442	1.00	66.70	A16S
ATOM	17035	C6 U	A 813	170.749	94.503	-42.879	1.00	66.70	A16S
ATOM	17036	C2 U	A 813	172.917	95.486	-43.057	1.00	66.70	A16S
ATOM	17037	O2 U	A 813	174.076	95.612	-42.695	1.00	66.70	A16S
ATOM	17038	N3 U	A 813	172.396	96.186	-44.117	1.00	66.70	A16S
ATOM	17039	C4 U	A 813	171.119	96.097	-44.623	1.00	66.70	A16S
ATOM	17040	O4 U	A 813	170.846	96.674	-45.683	1.00	66.70	A16S
ATOM	17041	C5 U	A 813	170.270	95.188	-43.921	1.00	66.70	A16S
ATOM	17042	C2* U	A 813	172.510	94.610	-39.988	1.00	62.19	A16S
ATOM	17043	O2* U	A 813	173.634	94.216	-39.225	1.00	62.19	A16S
ATOM	17044	C3* U	A 813	171.228	94.075	-39.375	1.00	62.19	A16S
ATOM	17045	O3* U	A 813	171.308	94.112	-37.967	1.00	62.19	A16S
ATOM	17046	P A	A 814	170.839	95.426	-37.174	1.00	59.86	A16S
ATOM	17047	O1P A	A 814	169.443	95.781	-37.577	1.00	51.14	A16S
ATOM	17048	O2P A	A 814	171.151	95.113	-35.753	1.00	51.14	A16S
ATOM	17049	O5* A	A 814	171.796	96.598	-37.684	1.00	59.86	A16S
ATOM	17050	C5* A	A 814	173.104	96.734	-37.122	1.00	59.86	A16S
ATOM	17051	C4* A	A 814	173.819	97.935	-37.675	1.00	59.86	A16S
ATOM	17052	O4* A	A 814	174.141	97.733	-39.063	1.00	59.86	A16S
ATOM	17053	C1* A	A 814	174.266	98.987	-39.691	1.00	59.86	A16S
ATOM	17054	N9 A	A 814	173.387	99.011	-40.841	1.00	51.14	A16S
ATOM	17055	C4 A	A 814	173.502	99.890	-41.880	1.00	51.14	A16S
ATOM	17056	N3 A	A 814	174.437	100.840	-42.028	1.00	51.14	A16S
ATOM	17057	C2 A	A 814	174.234	101.506	-43.151	1.00	51.14	A16S
ATOM	17058	N1 A	A 814	173.265	101.348	-44.073	1.00	51.14	A16S
ATOM	17059	C6 A	A 814	172.335	100.386	-43.875	1.00	51.14	A16S
ATOM	17060	N6 A	A 814	171.349	100.236	-44.767	1.00	51.14	A16S
ATOM	17061	C5 A	A 814	172.454	99.603	-42.732	1.00	51.14	A16S
ATOM	17062	N7 A	A 814	171.700	98.545	-42.248	1.00	51.14	A16S
ATOM	17063	C8 A	A 814	172.297	98.227	-41.124	1.00	51.14	A16S
ATOM	17064	C2* A	A 814	173.867	100.070	-38.691	1.00	59.86	A16S
ATOM	17065	O2* A	A 814	175.028	100.704	-38.191	1.00	59.86	A16S
ATOM	17066	C3* A	A 814	173.099	99.262	-37.653	1.00	59.86	A16S
ATOM	17067	O3* A	A 814	173.185	99.859	-36.382	1.00	59.86	A16S
ATOM	17068	P A	A 815	171.944	100.717	-35.823	1.00	60.60	A16S
ATOM	17069	O1P A	A 815	170.768	100.609	-36.742	1.00	47.23	A16S
ATOM	17070	O2P A	A 815	171.792	100.313	-34.375	1.00	47.23	A16S
ATOM	17071	O5* A	A 815	172.461	102.219	-35.925	1.00	60.60	A16S
ATOM	17072	C5* A	A 815	173.573	102.661	-35.140	1.00	60.60	A16S
ATOM	17073	C4* A	A 815	174.060	103.967	-35.667	1.00	60.60	A16S
ATOM	17074	O4* A	A 815	174.916	104.620	-34.702	1.00	60.60	A16S
ATOM	17075	C1* A	A 815	176.091	105.050	-35.342	1.00	60.60	A16S
ATOM	17076	N9 A	A 815	177.190	104.973	-34.393	1.00	47.23	A16S
ATOM	17077	C4 A	A 815	177.910	106.039	-33.940	1.00	47.23	A16S
ATOM	17078	N3 A	A 815	177.744	107.323	-34.274	1.00	47.23	A16S
ATOM	17079	C2 A	A 815	178.615	108.080	-33.625	1.00	47.23	A16S
ATOM	17080	N1 A	A 815	179.561	107.716	-32.757	1.00	47.23	A16S
ATOM	17081	C6 A	A 815	179.695	106.405	-32.461	1.00	47.23	A16S
ATOM	17082	N6 A	A 815	180.648	106.024	-31.615	1.00	47.23	A16S
ATOM	17083	C5 A	A 815	178.836	105.520	-33.063	1.00	47.23	A16S
ATOM	17084	N7 A	A 815	178.707	104.153	-32.959	1.00	47.23	A16S
ATOM	17085	C8 A	A 815	177.718	103.874	-33.769	1.00	47.23	A16S
ATOM	17086	C2* A	A 815	176.271	104.141	-36.548	1.00	60.60	A16S
ATOM	17087	O2* A	A 815	176.998	104.858	-37.519	1.00	60.60	A16S



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ATOM	17088	C3* A	A 815	174.829	103.896	-36.971	1.00	60.60	A16S
ATOM	17089	O3* A	A 815	174.400	104.950	-37.797	1.00	60.60	A16S
ATOM	17090	P A	A 816	174.208	104.680	-39.354	1.00	61.54	A16S
ATOM	17091	O1P A	A 816	173.529	105.888	-39.909	1.00	49.13	A16S
ATOM	17092	O2P A	A 816	175.510	104.239	-39.905	1.00	49.13	A16S
ATOM	17093	O5* A	A 816	173.221	103.429	-39.408	1.00	61.54	A16S
ATOM	17094	C5* A	A 816	171.826	103.577	-39.081	1.00	61.54	A16S
ATOM	17095	C4* A	A 816	170.978	103.429	-40.325	1.00	61.54	A16S
ATOM	17096	O4* A	A 816	171.195	102.117	-40.891	1.00	61.54	A16S
ATOM	17097	C1* A	A 816	170.025	101.687	-41.541	1.00	61.54	A16S
ATOM	17098	N9 A	A 816	169.652	100.399	-40.989	1.00	49.13	A16S
ATOM	17099	C4 A	A 816	169.054	99.388	-41.689	1.00	49.13	A16S
ATOM	17100	N3 A	A 816	168.712	99.399	-42.986	1.00	49.13	A16S
ATOM	17101	C2 A	A 816	168.152	98.243	-43.328	1.00	49.13	A16S
ATOM	17102	N1 A	A 816	167.923	97.151	-42.579	1.00	49.13	A16S
ATOM	17103	C6 A	A 816	168.298	97.164	-41.277	1.00	49.13	A16S
ATOM	17104	N6 A	A 816	168.111	96.051	-40.538	1.00	49.13	A16S
ATOM	17105	C5 A	A 816	168.886	98.350	-40.786	1.00	49.13	A16S
ATOM	17106	N7 A	A 816	169.370	98.709	-39.534	1.00	49.13	A16S
ATOM	17107	C8 A	A 816	169.813	99.933	-39.711	1.00	49.13	A16S
ATOM	17108	C2* A	A 816	168.951	102.756	-41.355	1.00	61.54	A16S
ATOM	17109	O2* A	A 816	168.951	103.608	-42.477	1.00	61.54	A16S
ATOM	17110	C3* A	A 816	169.467	103.515	-40.149	1.00	61.54	A16S
ATOM	17111	O3* A	A 816	169.008	104.861	-40.215	1.00	61.54	A16S
ATOM	17112	P C	A 817	168.104	105.451	-39.024	1.00	58.97	A16S
ATOM	17113	O1P C	A 817	166.758	105.761	-39.590	1.00	53.69	A16S
ATOM	17114	O2P C	A 817	168.205	104.546	-37.836	1.00	53.69	A16S
ATOM	17115	O5* C	A 817	168.853	106.804	-38.647	1.00	58.97	A16S
ATOM	17116	C5* C	A 817	168.213	108.074	-38.799	1.00	58.97	A16S
ATOM	17117	C4* C	A 817	169.185	109.159	-38.457	1.00	58.97	A16S
ATOM	17118	O4* C	A 817	169.631	108.935	-37.103	1.00	58.97	A16S
ATOM	17119	C1* C	A 817	171.023	108.789	-37.080	1.00	58.97	A16S
ATOM	17120	N1 C	A 817	171.352	107.765	-36.095	1.00	53.69	A16S
ATOM	17121	C6 C	A 817	170.591	106.644	-35.969	1.00	53.69	A16S
ATOM	17122	C2 C	A 817	172.463	107.961	-35.274	1.00	53.69	A16S
ATOM	17123	O2 C	A 817	173.139	108.992	-35.417	1.00	53.69	A16S
ATOM	17124	N3 C	A 817	172.772	107.031	-34.344	1.00	53.69	A16S
ATOM	17125	C4 C	A 817	172.019	105.942	-34.225	1.00	53.69	A16S
ATOM	17126	N4 C	A 817	172.354	105.052	-33.297	1.00	53.69	A16S
ATOM	17127	C5 C	A 817	170.885	105.715	-35.054	1.00	53.69	A16S
ATOM	17128	C2* C	A 817	171.457	108.427	-38.492	1.00	58.97	A16S
ATOM	17129	O2* C	A 817	172.784	108.885	-38.694	1.00	58.97	A16S
ATOM	17130	C3* C	A 817	170.435	109.190	-39.325	1.00	58.97	A16S
ATOM	17131	O3* C	A 817	170.863	110.538	-39.433	1.00	58.97	A16S
ATOM	17132	P G	A 818	170.080	111.550	-40.398	1.00	68.39	A16S
ATOM	17133	O1P G	A 818	168.915	110.835	-40.999	1.00	79.69	A16S
ATOM	17134	O2P G	A 818	171.108	112.166	-41.283	1.00	79.69	A16S
ATOM	17135	O5* G	A 818	169.547	112.673	-39.397	1.00	68.39	A16S
ATOM	17136	C5* G	A 818	170.473	113.606	-38.786	1.00	68.39	A16S
ATOM	17137	C4* G	A 818	169.934	114.125	-37.469	1.00	68.39	A16S
ATOM	17138	O4* G	A 818	168.634	114.721	-37.710	1.00	68.39	A16S
ATOM	17139	C1* G	A 818	167.691	114.137	-36.846	1.00	68.39	A16S
ATOM	17140	N9 G	A 818	166.384	114.145	-37.493	1.00	79.69	A16S
ATOM	17141	C4 G	A 818	165.255	114.708	-36.966	1.00	79.69	A16S
ATOM	17142	N3 G	A 818	165.171	115.318	-35.764	1.00	79.69	A16S
ATOM	17143	C2 G	A 818	163.956	115.765	-35.525	1.00	79.69	A16S
ATOM	17144	N2 G	A 818	163.697	116.392	-34.367	1.00	79.69	A16S
ATOM	17145	N1 G	A 818	162.901	115.628	-36.402	1.00	79.69	A16S
ATOM	17146	C6 G	A 818	162.967	115.001	-37.646	1.00	79.69	A16S
ATOM	17147	O6 G	A 818	161.953	114.928	-38.356	1.00	79.69	A16S
ATOM	17148	C5 G	A 818	164.270	114.515	-37.912	1.00	79.69	A16S
ATOM	17149	N7 G	A 818	164.771	113.835	-39.012	1.00	79.69	A16S
ATOM	17150	C8 G	A 818	166.029	113.633	-38.718	1.00	79.69	A16S
ATOM	17151	C2* G	A 818	168.260	112.778	-36.458	1.00	68.39	A16S
ATOM	17152	O2* G	A 818	167.685	112.356	-35.247	1.00	68.39	A16S
ATOM	17153	C3* G	A 818	169.744	113.109	-36.346	1.00	68.39	A16S
ATOM	17154	O3* G	A 818	169.932	113.804	-35.110	1.00	68.39	A16S
ATOM	17155	P A	A 819	170.892	113.213	-33.956	1.00	61.36	A16S
ATOM	17156	O1P A	A 819	170.723	114.138	-32.797	1.00	53.74	A16S
ATOM	17157	O2P A	A 819	172.241	113.024	-34.548	1.00	53.74	A16S
ATOM	17158	O5* A	A 819	170.254	111.807	-33.535	1.00	61.36	A16S
ATOM	17159	C5* A	A 819	170.031	110.808	-34.537	1.00	61.36	A16S
ATOM	17160	C4* A	A 819	169.604	109.478	-33.951	1.00	61.36	A16S
ATOM	17161	O4* A	A 819	170.705	108.805	-33.300	1.00	61.36	A16S
ATOM	17162	C1* A	A 819	170.262	108.208	-32.111	1.00	61.36	A16S
ATOM	17163	N9 A	A 819	171.352	108.342	-31.143	1.00	53.74	A16S
ATOM	17164	C4 A	A 819	171.757	107.399	-30.235	1.00	53.74	A16S



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ATOM	17165	N3	A	A 819	171.215	106.188	-30.026	1.00	53.74	A16S
ATOM	17166	C2	A	A 819	171.885	105.532	-29.070	1.00	53.74	A16S
ATOM	17167	N1	A	A 819	172.954	105.925	-28.355	1.00	53.74	A16S
ATOM	17168	C6	A	A 819	173.469	107.149	-28.586	1.00	53.74	A16S
ATOM	17169	N6	A	A 819	174.523	107.533	-27.866	1.00	53.74	A16S
ATOM	17170	C5	A	A 819	172.851	107.946	-29.578	1.00	53.74	A16S
ATOM	17171	N7	A	A 819	173.120	109.219	-30.054	1.00	53.74	A16S
ATOM	17172	C8	A	A 819	172.202	109.411	-30.971	1.00	53.74	A16S
ATOM	17173	C2*	A	A 819	168.956	108.907	-31.721	1.00	61.36	A16S
ATOM	17174	O2*	A	A 819	168.135	107.965	-31.065	1.00	61.36	A16S
ATOM	17175	C3*	A	A 819	168.368	109.341	-33.076	1.00	61.36	A16S
ATOM	17176	O3*	A	A 819	167.520	108.326	-33.648	1.00	61.36	A16S
ATOM	17177	P	U	A 820	166.362	108.736	-34.708	1.00	52.61	A16S
ATOM	17178	O1P	U	A 820	165.681	107.476	-35.121	1.00	58.22	A16S
ATOM	17179	O2P	U	A 820	166.887	109.651	-35.752	1.00	58.22	A16S
ATOM	17180	O5*	U	A 820	165.362	109.634	-33.856	1.00	52.61	A16S
ATOM	17181	C5*	U	A 820	164.321	109.052	-33.037	1.00	52.61	A16S
ATOM	17182	C4*	U	A 820	163.239	110.079	-32.794	1.00	52.61	A16S
ATOM	17183	O4*	U	A 820	163.818	111.197	-32.070	1.00	52.61	A16S
ATOM	17184	C1*	U	A 820	163.603	112.379	-32.801	1.00	52.61	A16S
ATOM	17185	N1	U	A 820	164.694	113.323	-32.539	1.00	58.22	A16S
ATOM	17186	C6	U	A 820	165.982	113.089	-32.917	1.00	58.22	A16S
ATOM	17187	C2	U	A 820	164.352	114.468	-31.899	1.00	58.22	A16S
ATOM	17188	O2	U	A 820	163.223	114.686	-31.532	1.00	58.22	A16S
ATOM	17189	N3	U	A 820	165.371	115.354	-31.697	1.00	58.22	A16S
ATOM	17190	C4	U	A 820	166.674	115.204	-32.070	1.00	58.22	A16S
ATOM	17191	O4	U	A 820	167.450	116.150	-31.942	1.00	58.22	A16S
ATOM	17192	C5	U	A 820	166.962	113.968	-32.709	1.00	58.22	A16S
ATOM	17193	C2*	U	A 820	163.426	111.955	-34.251	1.00	52.61	A16S
ATOM	17194	O2*	U	A 820	162.692	112.926	-34.952	1.00	52.61	A16S
ATOM	17195	C3*	U	A 820	162.644	110.664	-34.078	1.00	52.61	A16S
ATOM	17196	O3*	U	A 820	161.285	111.040	-33.883	1.00	52.61	A16S
ATOM	17197	P	G	A 821	160.145	109.919	-33.735	1.00	59.03	A16S
ATOM	17198	O1P	G	A 821	159.034	110.618	-33.042	1.00	69.15	A16S
ATOM	17199	O2P	G	A 821	160.728	108.678	-33.137	1.00	69.15	A16S
ATOM	17200	O5*	G	A 821	159.658	109.607	-35.221	1.00	59.03	A16S
ATOM	17201	C5*	G	A 821	160.126	108.436	-35.919	1.00	59.03	A16S
ATOM	17202	C4*	G	A 821	158.977	107.718	-36.580	1.00	59.03	A16S
ATOM	17203	O4*	G	A 821	158.249	106.890	-35.638	1.00	59.03	A16S
ATOM	17204	C1*	G	A 821	156.888	106.812	-36.041	1.00	59.03	A16S
ATOM	17205	N9	G	A 821	156.037	107.292	-34.957	1.00	69.15	A16S
ATOM	17206	C4	G	A 821	154.666	107.201	-34.899	1.00	69.15	A16S
ATOM	17207	N3	G	A 821	153.873	106.630	-35.822	1.00	69.15	A16S
ATOM	17208	C2	G	A 821	152.603	106.733	-35.502	1.00	69.15	A16S
ATOM	17209	N2	G	A 821	151.682	106.231	-36.312	1.00	69.15	A16S
ATOM	17210	N1	G	A 821	152.143	107.339	-34.364	1.00	69.15	A16S
ATOM	17211	C6	G	A 821	152.945	107.933	-33.400	1.00	69.15	A16S
ATOM	17212	O6	G	A 821	152.433	108.463	-32.406	1.00	69.15	A16S
ATOM	17213	C5	G	A 821	154.307	107.835	-33.732	1.00	69.15	A16S
ATOM	17214	N7	G	A 821	155.425	108.302	-33.062	1.00	69.15	A16S
ATOM	17215	C8	G	A 821	156.429	107.948	-33.819	1.00	69.15	A16S
ATOM	17216	C2*	G	A 821	156.719	107.682	-37.289	1.00	59.03	A16S
ATOM	17217	O2*	G	A 821	156.774	106.872	-38.438	1.00	59.03	A16S
ATOM	17218	C3*	G	A 821	157.916	108.608	-37.187	1.00	59.03	A16S
ATOM	17219	O3*	G	A 821	158.313	109.089	-38.444	1.00	59.03	A16S
ATOM	17220	P	C	A 822	157.798	110.523	-38.923	1.00	58.38	A16S
ATOM	17221	O1P	C	A 822	158.532	110.899	-40.158	1.00	65.07	A16S
ATOM	17222	O2P	C	A 822	157.823	111.432	-37.739	1.00	65.07	A16S
ATOM	17223	O5*	C	A 822	156.306	110.210	-39.364	1.00	58.38	A16S
ATOM	17224	C5*	C	A 822	156.078	109.270	-40.418	1.00	58.38	A16S
ATOM	17225	C4*	C	A 822	154.611	109.089	-40.660	1.00	58.38	A16S
ATOM	17226	O4*	C	A 822	154.011	108.306	-39.603	1.00	58.38	A16S
ATOM	17227	C1*	C	A 822	152.700	108.775	-39.352	1.00	58.38	A16S
ATOM	17228	N1	C	A 822	152.648	109.305	-37.982	1.00	65.07	A16S
ATOM	17229	C6	C	A 822	153.793	109.629	-37.306	1.00	65.07	A16S
ATOM	17230	C2	C	A 822	151.403	109.493	-37.390	1.00	65.07	A16S
ATOM	17231	O2	C	A 822	150.387	109.170	-38.021	1.00	65.07	A16S
ATOM	17232	N3	C	A 822	151.336	110.022	-36.150	1.00	65.07	A16S
ATOM	17233	C4	C	A 822	152.458	110.354	-35.506	1.00	65.07	A16S
ATOM	17234	N4	C	A 822	152.347	110.896	-34.291	1.00	65.07	A16S
ATOM	17235	C5	C	A 822	153.745	110.152	-36.080	1.00	65.07	A16S
ATOM	17236	C2*	C	A 822	152.414	109.875	-40.371	1.00	58.38	A16S
ATOM	17237	O2*	C	A 822	151.817	109.280	-41.504	1.00	58.38	A16S
ATOM	17238	C3*	C	A 822	153.816	110.369	-40.679	1.00	58.38	A16S
ATOM	17239	O3*	C	A 822	153.924	111.008	-41.925	1.00	58.38	A16S
ATOM	17240	P	G	A 823	153.661	112.580	-42.014	1.00	70.30	A16S
ATOM	17241	O1P	G	A 823	153.904	112.916	-43.442	1.00	60.93	A16S



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ATOM	17242	O2P	G	A	823	154.404	113.296	-40.942	1.00	60.93	A16S
ATOM	17243	O5*	G	A	823	152.112	112.702	-41.690	1.00	70.30	A16S
ATOM	17244	C5*	G	A	823	151.169	112.062	-42.546	1.00	70.30	A16S
ATOM	17245	C4*	G	A	823	149.778	112.312	-42.069	1.00	70.30	A16S
ATOM	17246	O4*	G	A	823	149.520	111.556	-40.865	1.00	70.30	A16S
ATOM	17247	C1*	G	A	823	148.577	112.256	-40.075	1.00	70.30	A16S
ATOM	17248	N9	G	A	823	149.155	112.535	-38.767	1.00	60.93	A16S
ATOM	17249	C4	G	A	823	148.445	112.751	-37.622	1.00	60.93	A16S
ATOM	17250	N3	G	A	823	147.108	112.685	-37.507	1.00	60.93	A16S
ATOM	17251	C2	G	A	823	146.708	112.955	-36.280	1.00	60.93	A16S
ATOM	17252	N2	G	A	823	145.396	112.907	-35.978	1.00	60.93	A16S
ATOM	17253	N1	G	A	823	147.556	113.286	-35.258	1.00	60.93	A16S
ATOM	17254	C6	G	A	823	148.929	113.368	-35.363	1.00	60.93	A16S
ATOM	17255	O6	G	A	823	149.588	113.699	-34.385	1.00	60.93	A16S
ATOM	17256	C5	G	A	823	149.373	113.049	-36.663	1.00	60.93	A16S
ATOM	17257	N7	G	A	823	150.653	112.980	-37.184	1.00	60.93	A16S
ATOM	17258	C8	G	A	823	150.474	112.669	-38.437	1.00	60.93	A16S
ATOM	17259	C2*	G	A	823	148.235	113.559	-40.799	1.00	70.30	A16S
ATOM	17260	O2*	G	A	823	147.058	113.387	-41.571	1.00	70.30	A16S
ATOM	17261	C3*	G	A	823	149.457	113.740	-41.680	1.00	70.30	A16S
ATOM	17262	O3*	G	A	823	149.173	114.549	-42.800	1.00	70.30	A16S
ATOM	17263	P	C	A	824	149.387	116.135	-42.693	1.00	66.95	A16S
ATOM	17264	O1P	C	A	824	149.149	116.682	-44.060	1.00	63.61	A16S
ATOM	17265	O2P	C	A	824	150.680	116.379	-42.014	1.00	63.61	A16S
ATOM	17266	O5*	C	A	824	148.224	116.604	-41.709	1.00	66.95	A16S
ATOM	17267	C5*	C	A	824	146.840	116.490	-42.102	1.00	66.95	A16S
ATOM	17268	C4*	C	A	824	145.935	117.018	-41.016	1.00	66.95	A16S
ATOM	17269	O4*	C	A	824	145.948	116.125	-39.879	1.00	66.95	A16S
ATOM	17270	C1*	C	A	824	145.758	116.869	-38.697	1.00	66.95	A16S
ATOM	17271	N1	C	A	824	146.904	116.681	-37.812	1.00	63.61	A16S
ATOM	17272	C6	C	A	824	148.169	116.502	-38.297	1.00	63.61	A16S
ATOM	17273	C2	C	A	824	146.677	116.732	-36.447	1.00	63.61	A16S
ATOM	17274	O2	C	A	824	145.502	116.826	-36.044	1.00	63.61	A16S
ATOM	17275	N3	C	A	824	147.723	116.672	-35.594	1.00	63.61	A16S
ATOM	17276	C4	C	A	824	148.957	116.541	-36.070	1.00	63.61	A16S
ATOM	17277	N4	C	A	824	149.962	116.525	-35.189	1.00	63.61	A16S
ATOM	17278	C5	C	A	824	149.216	116.429	-37.469	1.00	63.61	A16S
ATOM	17279	C2*	C	A	824	145.640	118.342	-39.068	1.00	66.95	A16S
ATOM	17280	O2*	C	A	824	144.278	118.673	-39.097	1.00	66.95	A16S
ATOM	17281	C3*	C	A	824	146.303	118.373	-40.437	1.00	66.95	A16S
ATOM	17282	O3*	C	A	824	145.793	119.421	-41.246	1.00	66.95	A16S
ATOM	17283	P	G	A	825	146.406	120.906	-41.121	1.00	61.46	A16S
ATOM	17284	O1P	G	A	825	145.754	121.637	-42.255	1.00	61.34	A16S
ATOM	17285	O2P	G	A	825	147.900	120.846	-41.034	1.00	61.34	A16S
ATOM	17286	O5*	G	A	825	145.807	121.458	-39.747	1.00	61.46	A16S
ATOM	17287	C5*	G	A	825	144.403	121.698	-39.651	1.00	61.46	A16S
ATOM	17288	C4*	G	A	825	144.020	122.075	-38.258	1.00	61.46	A16S
ATOM	17289	O4*	G	A	825	144.262	120.965	-37.370	1.00	61.46	A16S
ATOM	17290	C1*	G	A	825	144.651	121.455	-36.104	1.00	61.46	A16S
ATOM	17291	N9	G	A	825	145.987	120.940	-35.796	1.00	61.34	A16S
ATOM	17292	C4	G	A	825	146.642	121.021	-34.585	1.00	61.34	A16S
ATOM	17293	N3	G	A	825	146.151	121.559	-33.455	1.00	61.34	A16S
ATOM	17294	C2	G	A	825	147.022	121.507	-32.475	1.00	61.34	A16S
ATOM	17295	N2	G	A	825	146.697	121.985	-31.288	1.00	61.34	A16S
ATOM	17296	N1	G	A	825	148.275	120.980	-32.592	1.00	61.34	A16S
ATOM	17297	C6	G	A	825	148.803	120.427	-33.747	1.00	61.34	A16S
ATOM	17298	O6	G	A	825	149.961	119.999	-33.755	1.00	61.34	A16S
ATOM	17299	C5	G	A	825	147.879	120.458	-34.800	1.00	61.34	A16S
ATOM	17300	N7	G	A	825	147.995	120.002	-36.100	1.00	61.34	A16S
ATOM	17301	C8	G	A	825	146.851	120.305	-36.655	1.00	61.34	A16S
ATOM	17302	C2*	G	A	825	144.620	122.987	-36.176	1.00	61.46	A16S
ATOM	17303	O2*	G	A	825	143.360	123.455	-35.753	1.00	61.46	A16S
ATOM	17304	C3*	G	A	825	144.785	123.235	-37.663	1.00	61.46	A16S
ATOM	17305	O3*	G	A	825	144.194	124.471	-38.043	1.00	61.46	A16S
ATOM	17306	P	C	A	826	145.108	125.796	-38.164	1.00	60.20	A16S
ATOM	17307	O1P	C	A	826	144.241	126.833	-38.770	1.00	68.23	A16S
ATOM	17308	O2P	C	A	826	146.403	125.466	-38.814	1.00	68.23	A16S
ATOM	17309	O5*	C	A	826	145.408	126.196	-36.653	1.00	60.20	A16S
ATOM	17310	C5*	C	A	826	144.342	126.525	-35.757	1.00	60.20	A16S
ATOM	17311	C4*	C	A	826	144.860	126.586	-34.351	1.00	60.20	A16S
ATOM	17312	O4*	C	A	826	145.364	125.278	-33.983	1.00	60.20	A16S
ATOM	17313	C1*	C	A	826	146.430	125.424	-33.057	1.00	60.20	A16S
ATOM	17314	N1	C	A	826	147.616	124.710	-33.549	1.00	68.23	A16S
ATOM	17315	C6	C	A	826	147.704	124.282	-34.843	1.00	68.23	A16S
ATOM	17316	C2	C	A	826	148.674	124.487	-32.656	1.00	68.23	A16S
ATOM	17317	O2	C	A	826	148.559	124.866	-31.479	1.00	68.23	A16S
ATOM	17318	N3	C	A	826	149.788	123.870	-33.093	1.00	68.23	A16S



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ATOM	17319	C4	C	A	826	149.870	123.473	-34.360	1.00	68.23	A16S
ATOM	17320	N4	C	A	826	150.996	122.883	-34.751	1.00	68.23	A16S
ATOM	17321	C5	C	A	826	148.802	123.666	-35.286	1.00	68.23	A16S
ATOM	17322	C2*	C	A	826	146.705	126.915	-32.880	1.00	60.20	A16S
ATOM	17323	O2*	C	A	826	146.126	127.355	-31.673	1.00	60.20	A16S
ATOM	17324	C3*	C	A	826	146.046	127.507	-34.120	1.00	60.20	A16S
ATOM	17325	O3*	C	A	826	145.662	128.851	-33.898	1.00	60.20	A16S
ATOM	17326	P	U	A	827	146.641	130.032	-34.364	1.00	61.40	A16S
ATOM	17327	O1P	U	A	827	145.904	131.313	-34.253	1.00	65.43	A16S
ATOM	17328	O2P	U	A	827	147.210	129.629	-35.671	1.00	65.43	A16S
ATOM	17329	O5*	U	A	827	147.802	130.045	-33.274	1.00	61.40	A16S
ATOM	17330	C5*	U	A	827	147.602	130.675	-31.992	1.00	61.40	A16S
ATOM	17331	C4*	U	A	827	148.827	130.501	-31.117	1.00	61.40	A16S
ATOM	17332	O4*	U	A	827	149.112	129.085	-30.983	1.00	61.40	A16S
ATOM	17333	C1*	U	A	827	150.511	128.886	-30.896	1.00	61.40	A16S
ATOM	17334	N1	U	A	827	150.925	128.026	-32.015	1.00	65.43	A16S
ATOM	17335	C6	U	A	827	150.026	127.634	-32.968	1.00	65.43	A16S
ATOM	17336	C2	U	A	827	152.247	127.614	-32.076	1.00	65.43	A16S
ATOM	17337	O2	U	A	827	153.094	127.964	-31.270	1.00	65.43	A16S
ATOM	17338	N3	U	A	827	152.543	126.783	-33.125	1.00	65.43	A16S
ATOM	17339	C4	U	A	827	151.679	126.342	-34.099	1.00	65.43	A16S
ATOM	17340	O4	U	A	827	152.068	125.524	-34.931	1.00	65.43	A16S
ATOM	17341	C5	U	A	827	150.349	126.833	-33.979	1.00	65.43	A16S
ATOM	17342	C2*	U	A	827	151.176	130.263	-30.898	1.00	61.40	A16S
ATOM	17343	O2*	U	A	827	151.352	130.705	-29.567	1.00	61.40	A16S
ATOM	17344	C3*	U	A	827	150.135	131.104	-31.611	1.00	61.40	A16S
ATOM	17345	O3*	U	A	827	150.285	132.466	-31.249	1.00	61.40	A16S
ATOM	17346	P	A	A	828	150.520	133.559	-32.397	1.00	71.98	A16S
ATOM	17347	O1P	A	A	828	150.656	134.881	-31.725	1.00	72.05	A16S
ATOM	17348	O2P	A	A	828	149.453	133.354	-33.419	1.00	72.05	A16S
ATOM	17349	O5*	A	A	828	151.921	133.174	-33.063	1.00	71.98	A16S
ATOM	17350	C5*	A	A	828	153.160	133.407	-32.373	1.00	71.98	A16S
ATOM	17351	C4*	A	A	828	153.583	134.849	-32.537	1.00	71.98	A16S
ATOM	17352	O4*	A	A	828	154.570	135.169	-31.525	1.00	71.98	A16S
ATOM	17353	C1*	A	A	828	155.454	136.162	-32.014	1.00	71.98	A16S
ATOM	17354	N9	A	A	828	156.789	135.586	-32.062	1.00	72.05	A16S
ATOM	17355	C4	A	A	828	157.941	136.184	-31.637	1.00	72.05	A16S
ATOM	17356	N3	A	A	828	158.066	137.399	-31.085	1.00	72.05	A16S
ATOM	17357	C2	A	A	828	159.341	137.641	-30.779	1.00	72.05	A16S
ATOM	17358	N1	A	A	828	160.418	136.864	-30.957	1.00	72.05	A16S
ATOM	17359	C6	A	A	828	160.250	135.650	-31.522	1.00	72.05	A16S
ATOM	17360	N6	A	A	828	161.319	134.874	-31.707	1.00	72.05	A16S
ATOM	17361	C5	A	A	828	158.949	135.275	-31.883	1.00	72.05	A16S
ATOM	17362	N7	A	A	828	158.439	134.122	-32.456	1.00	72.05	A16S
ATOM	17363	C8	A	A	828	157.156	134.357	-32.539	1.00	72.05	A16S
ATOM	17364	C2*	A	A	828	154.990	136.539	-33.413	1.00	71.98	A16S
ATOM	17365	O2*	A	A	828	154.135	137.660	-33.333	1.00	71.98	A16S
ATOM	17366	C3*	A	A	828	154.249	135.279	-33.834	1.00	71.98	A16S
ATOM	17367	O3*	A	A	828	153.367	135.584	-34.890	1.00	71.98	A16S
ATOM	17368	P	G	A	829	153.972	135.830	-36.362	1.00	68.14	A16S
ATOM	17369	O1P	G	A	829	152.860	136.020	-37.330	1.00	69.11	A16S
ATOM	17370	O2P	G	A	829	154.975	134.761	-36.594	1.00	69.11	A16S
ATOM	17371	O5*	G	A	829	154.765	137.204	-36.246	1.00	68.14	A16S
ATOM	17372	C5*	G	A	829	155.910	137.452	-37.066	1.00	68.14	A16S
ATOM	17373	C4*	G	A	829	157.019	138.047	-36.240	1.00	68.14	A16S
ATOM	17374	O4*	G	A	829	157.346	137.155	-35.145	1.00	68.14	A16S
ATOM	17375	C1*	G	A	829	158.747	137.140	-34.938	1.00	68.14	A16S
ATOM	17376	N9	G	A	829	159.220	135.789	-35.231	1.00	69.11	A16S
ATOM	17377	C4	G	A	829	160.510	135.316	-35.105	1.00	69.11	A16S
ATOM	17378	N3	G	A	829	161.579	136.027	-34.699	1.00	69.11	A16S
ATOM	17379	C2	G	A	829	162.680	135.294	-34.678	1.00	69.11	A16S
ATOM	17380	N2	G	A	829	163.841	135.846	-34.306	1.00	69.11	A16S
ATOM	17381	N1	G	A	829	162.726	133.968	-35.018	1.00	69.11	A16S
ATOM	17382	C6	G	A	829	161.639	133.216	-35.437	1.00	69.11	A16S
ATOM	17383	O6	G	A	829	161.788	132.025	-35.708	1.00	69.11	A16S
ATOM	17384	C5	G	A	829	160.452	133.991	-35.479	1.00	69.11	A16S
ATOM	17385	N7	G	A	829	159.162	133.639	-35.852	1.00	69.11	A16S
ATOM	17386	C8	G	A	829	158.467	134.732	-35.688	1.00	69.11	A16S
ATOM	17387	C2*	G	A	829	159.359	138.180	-35.877	1.00	68.14	A16S
ATOM	17388	O2*	G	A	829	159.495	139.410	-35.200	1.00	68.14	A16S
ATOM	17389	C3*	G	A	829	158.322	138.223	-36.990	1.00	68.14	A16S
ATOM	17390	O3*	G	A	829	158.325	139.428	-37.745	1.00	68.14	A16S
ATOM	17391	P	G	A	830	158.909	139.416	-39.247	1.00	72.88	A16S
ATOM	17392	O1P	G	A	830	158.689	140.767	-39.822	1.00	67.06	A16S
ATOM	17393	O2P	G	A	830	158.392	138.218	-39.975	1.00	67.06	A16S
ATOM	17394	O5*	G	A	830	160.473	139.284	-38.999	1.00	72.88	A16S
ATOM	17395	C5*	G	A	830	161.144	140.304	-38.263	1.00	72.88	A16S



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ATOM	17396	C4*	G	A	830	162.571	139.920	-38.007	1.00	72.88	A16S
ATOM	17397	O4*	G	A	830	162.634	138.791	-37.101	1.00	72.88	A16S
ATOM	17398	C1*	G	A	830	163.793	138.023	-37.384	1.00	72.88	A16S
ATOM	17399	N9	G	A	830	163.386	136.669	-37.749	1.00	67.06	A16S
ATOM	17400	C4	G	A	830	164.226	135.594	-37.887	1.00	67.06	A16S
ATOM	17401	N3	G	A	830	165.561	135.608	-37.694	1.00	67.06	A16S
ATOM	17402	C2	G	A	830	166.100	134.423	-37.906	1.00	67.06	A16S
ATOM	17403	N2	G	A	830	167.423	134.260	-37.766	1.00	67.06	A16S
ATOM	17404	N1	G	A	830	165.384	133.309	-38.276	1.00	67.06	A16S
ATOM	17405	C6	G	A	830	164.010	133.274	-38.490	1.00	67.06	A16S
ATOM	17406	O6	G	A	830	163.464	132.220	-38.846	1.00	67.06	A16S
ATOM	17407	C5	G	A	830	163.417	134.540	-38.261	1.00	67.06	A16S
ATOM	17408	N7	G	A	830	162.091	134.943	-38.354	1.00	67.06	A16S
ATOM	17409	C8	G	A	830	162.117	136.212	-38.039	1.00	67.06	A16S
ATOM	17410	C2*	G	A	830	164.517	138.702	-38.542	1.00	72.88	A16S
ATOM	17411	O2*	G	A	830	165.514	139.558	-38.021	1.00	72.88	A16S
ATOM	17412	C3*	G	A	830	163.377	139.461	-39.201	1.00	72.88	A16S
ATOM	17413	O3*	G	A	830	163.817	140.532	-40.001	1.00	72.88	A16S
ATOM	17414	P	U	A	831	163.926	140.320	-41.590	1.00	81.62	A16S
ATOM	17415	O1P	U	A	831	164.236	141.659	-42.155	1.00	67.32	A16S
ATOM	17416	O2P	U	A	831	162.741	139.570	-42.114	1.00	67.32	A16S
ATOM	17417	O5*	U	A	831	165.213	139.387	-41.716	1.00	81.62	A16S
ATOM	17418	C5*	U	A	831	166.474	139.810	-41.159	1.00	81.62	A16S
ATOM	17419	C4*	U	A	831	167.501	138.718	-41.294	1.00	81.62	A16S
ATOM	17420	O4*	U	A	831	167.139	137.613	-40.435	1.00	81.62	A16S
ATOM	17421	C1*	U	A	831	167.487	136.389	-41.055	1.00	81.62	A16S
ATOM	17422	N1	U	A	831	166.266	135.581	-41.231	1.00	67.32	A16S
ATOM	17423	C6	U	A	831	165.009	136.154	-41.271	1.00	67.32	A16S
ATOM	17424	C2	U	A	831	166.421	134.204	-41.354	1.00	67.32	A16S
ATOM	17425	O2	U	A	831	167.508	133.650	-41.342	1.00	67.32	A16S
ATOM	17426	N3	U	A	831	165.257	133.498	-41.498	1.00	67.32	A16S
ATOM	17427	C4	U	A	831	163.977	134.003	-41.541	1.00	67.32	A16S
ATOM	17428	O4	U	A	831	163.025	133.216	-41.632	1.00	67.32	A16S
ATOM	17429	C5	U	A	831	163.891	135.432	-41.420	1.00	67.32	A16S
ATOM	17430	C2*	U	A	831	168.193	136.726	-42.366	1.00	81.62	A16S
ATOM	17431	O2*	U	A	831	169.585	136.802	-42.131	1.00	81.62	A16S
ATOM	17432	C3*	U	A	831	167.613	138.095	-42.669	1.00	81.62	A16S
ATOM	17433	O3*	U	A	831	168.437	138.845	-43.532	1.00	81.62	A16S
ATOM	17434	P	C	A	832	168.244	138.696	-45.118	1.00	76.82	A16S
ATOM	17435	O1P	C	A	832	169.078	139.782	-45.703	1.00	64.91	A16S
ATOM	17436	O2P	C	A	832	166.789	138.628	-45.454	1.00	64.91	A16S
ATOM	17437	O5*	C	A	832	168.886	137.267	-45.433	1.00	76.82	A16S
ATOM	17438	C5*	C	A	832	170.290	137.040	-45.215	1.00	76.82	A16S
ATOM	17439	C4*	C	A	832	170.669	135.621	-45.557	1.00	76.82	A16S
ATOM	17440	O4*	C	A	832	170.187	134.708	-44.537	1.00	76.82	A16S
ATOM	17441	C1*	C	A	832	169.896	133.449	-45.129	1.00	76.82	A16S
ATOM	17442	N1	C	A	832	168.462	133.155	-44.977	1.00	64.91	A16S
ATOM	17443	C6	C	A	832	167.541	134.164	-44.901	1.00	64.91	A16S
ATOM	17444	C2	C	A	832	168.043	131.808	-44.946	1.00	64.91	A16S
ATOM	17445	O2	C	A	832	168.894	130.909	-44.972	1.00	64.91	A16S
ATOM	17446	N3	C	A	832	166.724	131.530	-44.885	1.00	64.91	A16S
ATOM	17447	C4	C	A	832	165.837	132.525	-44.836	1.00	64.91	A16S
ATOM	17448	N4	C	A	832	164.546	132.206	-44.792	1.00	64.91	A16S
ATOM	17449	C5	C	A	832	166.233	133.897	-44.833	1.00	64.91	A16S
ATOM	17450	C2*	C	A	832	170.212	133.559	-46.617	1.00	76.82	A16S
ATOM	17451	O2*	C	A	832	171.506	133.065	-46.874	1.00	76.82	A16S
ATOM	17452	C3*	C	A	832	170.104	135.056	-46.845	1.00	76.82	A16S
ATOM	17453	O3*	C	A	832	170.803	135.440	-48.007	1.00	76.82	A16S
ATOM	17454	P	U	A	833	170.052	135.357	-49.430	1.00	75.98	A16S
ATOM	17455	O1P	U	A	833	171.025	135.834	-50.450	1.00	66.00	A16S
ATOM	17456	O2P	U	A	833	168.712	136.021	-49.315	1.00	66.00	A16S
ATOM	17457	O5*	U	A	833	169.822	133.791	-49.671	1.00	75.98	A16S
ATOM	17458	C5*	U	A	833	170.945	132.894	-49.764	1.00	75.98	A16S
ATOM	17459	C4*	U	A	833	170.491	131.451	-49.804	1.00	75.98	A16S
ATOM	17460	O4*	U	A	833	169.808	131.099	-48.572	1.00	75.98	A16S
ATOM	17461	C1*	U	A	833	168.800	130.135	-48.843	1.00	75.98	A16S
ATOM	17462	N1	U	A	833	167.488	130.708	-48.497	1.00	66.00	A16S
ATOM	17463	C6	U	A	833	167.321	132.066	-48.323	1.00	66.00	A16S
ATOM	17464	C2	U	A	833	166.403	129.840	-48.386	1.00	66.00	A16S
ATOM	17465	O2	U	A	833	166.505	128.622	-48.461	1.00	66.00	A16S
ATOM	17466	N3	U	A	833	165.195	130.454	-48.173	1.00	66.00	A16S
ATOM	17467	C4	U	A	833	164.963	131.807	-48.036	1.00	66.00	A16S
ATOM	17468	O4	U	A	833	163.802	132.215	-47.978	1.00	66.00	A16S
ATOM	17469	C5	U	A	833	166.132	132.624	-48.100	1.00	66.00	A16S
ATOM	17470	C2*	U	A	833	168.868	129.807	-50.336	1.00	75.98	A16S
ATOM	17471	O2*	U	A	833	169.632	128.632	-50.521	1.00	75.98	A16S
ATOM	17472	C3*	U	A	833	169.518	131.065	-50.903	1.00	75.98	A16S



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ATOM	17473	O3*	U	A	833	170.167	130.827	-52.143	1.00	75.98	A16S
ATOM	17474	P	C	A	834	169.357	131.053	-53.512	1.00	68.41	A16S
ATOM	17475	O1P	C	A	834	170.344	131.242	-54.610	1.00	76.48	A16S
ATOM	17476	O2P	C	A	834	168.321	132.093	-53.275	1.00	76.48	A16S
ATOM	17477	O5*	C	A	834	168.594	129.670	-53.734	1.00	68.41	A16S
ATOM	17478	C5*	C	A	834	169.327	128.442	-53.902	1.00	68.41	A16S
ATOM	17479	C4*	C	A	834	168.382	127.270	-54.008	1.00	68.41	A16S
ATOM	17480	O4*	C	A	834	167.748	127.029	-52.730	1.00	68.41	A16S
ATOM	17481	C1*	C	A	834	166.405	126.618	-52.934	1.00	68.41	A16S
ATOM	17482	N1	C	A	834	165.512	127.620	-52.332	1.00	76.48	A16S
ATOM	17483	C6	C	A	834	165.948	128.891	-52.074	1.00	76.48	A16S
ATOM	17484	C2	C	A	834	164.200	127.256	-52.046	1.00	76.48	A16S
ATOM	17485	O2	C	A	834	163.849	126.083	-52.240	1.00	76.48	A16S
ATOM	17486	N3	C	A	834	163.350	128.184	-51.556	1.00	76.48	A16S
ATOM	17487	C4	C	A	834	163.780	129.424	-51.326	1.00	76.48	A16S
ATOM	17488	N4	C	A	834	162.906	130.310	-50.858	1.00	76.48	A16S
ATOM	17489	C5	C	A	834	165.123	129.813	-51.573	1.00	76.48	A16S
ATOM	17490	C2*	C	A	834	166.167	126.516	-54.440	1.00	68.41	A16S
ATOM	17491	O2*	C	A	834	166.313	125.176	-54.874	1.00	68.41	A16S
ATOM	17492	C3*	C	A	834	167.230	127.462	-54.972	1.00	68.41	A16S
ATOM	17493	O3*	C	A	834	167.593	127.170	-56.296	1.00	68.41	A16S
ATOM	17494	P	U	A	835	166.930	128.012	-57.477	1.00	65.16	A16S
ATOM	17495	O1P	U	A	835	167.545	127.553	-58.743	1.00	82.36	A16S
ATOM	17496	O2P	U	A	835	167.009	129.459	-57.097	1.00	82.36	A16S
ATOM	17497	O5*	U	A	835	165.404	127.546	-57.459	1.00	65.16	A16S
ATOM	17498	C5*	U	A	835	165.039	126.229	-57.889	1.00	65.16	A16S
ATOM	17499	C4*	U	A	835	163.559	125.990	-57.685	1.00	65.16	A16S
ATOM	17500	O4*	U	A	835	163.245	125.972	-56.265	1.00	65.16	A16S
ATOM	17501	C1*	U	A	835	161.915	126.431	-56.064	1.00	65.16	A16S
ATOM	17502	N1	U	A	835	161.959	127.673	-55.285	1.00	82.36	A16S
ATOM	17503	C6	U	A	835	163.085	128.456	-55.237	1.00	82.36	A16S
ATOM	17504	C2	U	A	835	160.807	128.051	-54.637	1.00	82.36	A16S
ATOM	17505	O2	U	A	835	159.803	127.353	-54.603	1.00	82.36	A16S
ATOM	17506	N3	U	A	835	160.866	129.276	-54.026	1.00	82.36	A16S
ATOM	17507	C4	U	A	835	161.938	130.136	-53.989	1.00	82.36	A16S
ATOM	17508	O4	U	A	835	161.773	131.283	-53.568	1.00	82.36	A16S
ATOM	17509	C5	U	A	835	163.113	129.640	-54.629	1.00	82.36	A16S
ATOM	17510	C2*	U	A	835	161.323	126.739	-57.435	1.00	65.16	A16S
ATOM	17511	O2*	U	A	835	160.567	125.630	-57.884	1.00	65.16	A16S
ATOM	17512	C3*	U	A	835	162.582	127.009	-58.250	1.00	65.16	A16S
ATOM	17513	O3*	U	A	835	162.352	126.857	-59.630	1.00	65.16	A16S
ATOM	17514	P	G	A	836	161.829	128.112	-60.473	1.00	93.58	A16S
ATOM	17515	O1P	G	A	836	161.868	127.677	-61.887	1.00	82.93	A16S
ATOM	17516	O2P	G	A	836	162.633	129.276	-60.053	1.00	82.93	A16S
ATOM	17517	O5*	G	A	836	160.305	128.306	-60.000	1.00	93.58	A16S
ATOM	17518	C5*	G	A	836	159.282	127.368	-60.434	1.00	93.58	A16S
ATOM	17519	C4*	G	A	836	157.883	127.700	-59.897	1.00	93.58	A16S
ATOM	17520	O4*	G	A	836	157.794	127.547	-58.453	1.00	93.58	A16S
ATOM	17521	C1*	G	A	836	156.649	128.246	-57.979	1.00	93.58	A16S
ATOM	17522	N9	G	A	836	157.050	129.248	-56.994	1.00	82.93	A16S
ATOM	17523	C4	G	A	836	156.204	129.929	-56.137	1.00	82.93	A16S
ATOM	17524	N3	G	A	836	154.868	129.740	-56.018	1.00	82.93	A16S
ATOM	17525	C2	G	A	836	154.328	130.564	-55.133	1.00	82.93	A16S
ATOM	17526	N2	G	A	836	153.007	130.497	-54.885	1.00	82.93	A16S
ATOM	17527	N1	G	A	836	155.042	131.509	-54.427	1.00	82.93	A16S
ATOM	17528	C6	G	A	836	156.414	131.721	-54.532	1.00	82.93	A16S
ATOM	17529	O6	G	A	836	156.962	132.593	-53.844	1.00	82.93	A16S
ATOM	17530	C5	G	A	836	157.008	130.834	-55.472	1.00	82.93	A16S
ATOM	17531	N7	G	A	836	158.334	130.701	-55.871	1.00	82.93	A16S
ATOM	17532	C8	G	A	836	158.313	129.746	-56.765	1.00	82.93	A16S
ATOM	17533	C2*	G	A	836	156.012	128.945	-59.179	1.00	93.58	A16S
ATOM	17534	O2*	G	A	836	154.947	128.153	-59.682	1.00	93.58	A16S
ATOM	17535	C3*	G	A	836	157.179	129.028	-60.159	1.00	93.58	A16S
ATOM	17536	O3*	G	A	836	156.643	129.166	-61.470	1.00	93.58	A16S
ATOM	17537	P	G	A	837	156.300	130.640	-62.043	1.00	95.96	A16S
ATOM	17538	O1P	G	A	837	155.778	130.388	-63.417	1.00	86.33	A16S
ATOM	17539	O2P	G	A	837	157.455	131.558	-61.851	1.00	86.33	A16S
ATOM	17540	O5*	G	A	837	155.124	131.193	-61.114	1.00	95.96	A16S
ATOM	17541	C5*	G	A	837	153.748	130.875	-61.396	1.00	95.96	A16S
ATOM	17542	C4*	G	A	837	152.821	131.676	-60.511	1.00	95.96	A16S
ATOM	17543	O4*	G	A	837	153.137	131.402	-59.122	1.00	95.96	A16S
ATOM	17544	C1*	G	A	837	152.922	132.564	-58.342	1.00	95.96	A16S
ATOM	17545	N9	G	A	837	154.210	133.003	-57.822	1.00	86.33	A16S
ATOM	17546	C4	G	A	837	154.422	133.925	-56.825	1.00	86.33	A16S
ATOM	17547	N3	G	A	837	153.467	134.567	-56.118	1.00	86.33	A16S
ATOM	17548	C2	G	A	837	153.984	135.400	-55.228	1.00	86.33	A16S
ATOM	17549	N2	G	A	837	153.181	136.108	-54.427	1.00	86.33	A16S



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ATOM	17550	N1	G	A	837	155.327	135.596	-55.055	1.00	86.33	A16S
ATOM	17551	C6	G	A	837	156.328	134.952	-55.780	1.00	86.33	A16S
ATOM	17552	O6	G	A	837	157.521	135.214	-55.557	1.00	86.33	A16S
ATOM	17553	C5	G	A	837	155.787	134.046	-56.726	1.00	86.33	A16S
ATOM	17554	N7	G	A	837	156.424	133.206	-57.628	1.00	86.33	A16S
ATOM	17555	C8	G	A	837	155.451	132.605	-58.252	1.00	86.33	A16S
ATOM	17556	C2*	G	A	837	152.335	133.631	-59.262	1.00	95.96	A16S
ATOM	17557	O2*	G	A	837	150.921	133.581	-59.180	1.00	95.96	A16S
ATOM	17558	C3*	G	A	837	152.887	133.194	-60.614	1.00	95.96	A16S
ATOM	17559	O3*	G	A	837	152.115	133.705	-61.692	1.00	95.96	A16S
ATOM	17560	P	G	A	838	152.534	135.096	-62.384	1.00107.93		A16S
ATOM	17561	O1P	G	A	838	151.704	135.199	-63.617	1.00	98.55	A16S
ATOM	17562	O2P	G	A	838	154.015	135.126	-62.496	1.00	98.55	A16S
ATOM	17563	O5*	G	A	838	152.091	136.225	-61.341	1.00107.93		A16S
ATOM	17564	C5*	G	A	838	150.693	136.460	-61.034	1.00107.93		A16S
ATOM	17565	C4*	G	A	838	150.558	137.313	-59.789	1.00107.93		A16S
ATOM	17566	O4*	G	A	838	151.355	136.707	-58.742	1.00107.93		A16S
ATOM	17567	C1*	G	A	838	151.954	137.716	-57.947	1.00107.93		A16S
ATOM	17568	N9	G	A	838	153.402	137.579	-58.043	1.00	98.55	A16S
ATOM	17569	C4	G	A	838	154.327	138.243	-57.284	1.00	98.55	A16S
ATOM	17570	N3	G	A	838	154.057	139.151	-56.328	1.00	98.55	A16S
ATOM	17571	C2	G	A	838	155.160	139.613	-55.761	1.00	98.55	A16S
ATOM	17572	N2	G	A	838	155.076	140.535	-54.788	1.00	98.55	A16S
ATOM	17573	N1	G	A	838	156.428	139.208	-56.103	1.00	98.55	A16S
ATOM	17574	C6	G	A	838	156.730	138.265	-57.083	1.00	98.55	A16S
ATOM	17575	O6	G	A	838	157.912	137.953	-57.303	1.00	98.55	A16S
ATOM	17576	C5	G	A	838	155.553	137.772	-57.707	1.00	98.55	A16S
ATOM	17577	N7	G	A	838	155.400	136.841	-58.725	1.00	98.55	A16S
ATOM	17578	C8	G	A	838	154.109	136.761	-58.894	1.00	98.55	A16S
ATOM	17579	C2*	G	A	838	151.467	139.071	-58.449	1.00107.93		A16S
ATOM	17580	O2*	G	A	838	150.397	139.508	-57.637	1.00107.93		A16S
ATOM	17581	C3*	G	A	838	151.068	138.749	-59.887	1.00107.93		A16S
ATOM	17582	O3*	G	A	838	150.038	139.643	-60.309	1.00107.93		A16S
ATOM	17583	P	U	A	839	150.270	140.612	-61.574	1.00169.73		A16S
ATOM	17584	O1P	U	A	839	149.173	141.617	-61.541	1.00137.89		A16S
ATOM	17585	O2P	U	A	839	150.456	139.763	-62.781	1.00137.89		A16S
ATOM	17586	O5*	U	A	839	151.644	141.374	-61.299	1.00169.73		A16S
ATOM	17587	C5*	U	A	839	152.023	141.810	-59.979	1.00169.73		A16S
ATOM	17588	C4*	U	A	839	151.611	143.245	-59.755	1.00169.73		A16S
ATOM	17589	O4*	U	A	839	150.173	143.275	-59.574	1.00169.73		A16S
ATOM	17590	C1*	U	A	839	149.834	144.212	-58.568	1.00169.73		A16S
ATOM	17591	N1	U	A	839	148.974	143.533	-57.576	1.00137.89		A16S
ATOM	17592	C6	U	A	839	147.922	142.752	-58.017	1.00137.89		A16S
ATOM	17593	C2	U	A	839	149.213	143.696	-56.200	1.00137.89		A16S
ATOM	17594	O2	U	A	839	150.135	144.355	-55.738	1.00137.89		A16S
ATOM	17595	N3	U	A	839	148.319	143.047	-55.383	1.00137.89		A16S
ATOM	17596	C4	U	A	839	147.242	142.270	-55.769	1.00137.89		A16S
ATOM	17597	O4	U	A	839	146.494	141.803	-54.907	1.00137.89		A16S
ATOM	17598	C5	U	A	839	147.076	142.135	-57.186	1.00137.89		A16S
ATOM	17599	C2*	U	A	839	151.124	144.887	-58.084	1.00169.73		A16S
ATOM	17600	O2*	U	A	839	151.291	146.141	-58.716	1.00169.73		A16S
ATOM	17601	C3*	U	A	839	152.188	143.875	-58.491	1.00169.73		A16S
ATOM	17602	O3*	U	A	839	153.438	144.523	-58.766	1.00169.73		A16S
ATOM	17603	P	C	A	840	154.437	144.907	-57.557	1.00198.84		A16S
ATOM	17604	O1P	C	A	840	153.622	145.145	-56.333	1.00170.64		A16S
ATOM	17605	O2P	C	A	840	155.336	145.979	-58.060	1.00170.64		A16S
ATOM	17606	O5*	C	A	840	155.307	143.586	-57.334	1.00198.84		A16S
ATOM	17607	C5*	C	A	840	156.340	143.514	-56.316	1.00198.84		A16S
ATOM	17608	C4*	C	A	840	157.599	142.897	-56.895	1.00198.84		A16S
ATOM	17609	O4*	C	A	840	157.261	141.578	-57.389	1.00198.84		A16S
ATOM	17610	C1*	C	A	840	157.902	141.343	-58.626	1.00198.84		A16S
ATOM	17611	N1	C	A	840	156.860	141.000	-59.613	1.00170.64		A16S
ATOM	17612	C6	C	A	840	155.913	141.916	-59.980	1.00170.64		A16S
ATOM	17613	C2	C	A	840	156.830	139.698	-60.152	1.00170.64		A16S
ATOM	17614	O2	C	A	840	157.737	138.894	-59.862	1.00170.64		A16S
ATOM	17615	N3	C	A	840	155.816	139.352	-60.982	1.00170.64		A16S
ATOM	17616	C4	C	A	840	154.877	140.247	-61.299	1.00170.64		A16S
ATOM	17617	N4	C	A	840	153.874	139.849	-62.089	1.00170.64		A16S
ATOM	17618	C5	C	A	840	154.917	141.587	-60.811	1.00170.64		A16S
ATOM	17619	C2*	C	A	840	158.785	142.553	-58.950	1.00198.84		A16S
ATOM	17620	O2*	C	A	840	160.122	142.256	-58.599	1.00198.84		A16S
ATOM	17621	C3*	C	A	840	158.166	143.659	-58.090	1.00198.84		A16S
ATOM	17622	O3*	C	A	840	159.204	144.597	-57.730	1.00198.84		A16S
ATOM	17623	P	U	A	841	159.049	145.569	-56.442	1.00198.62		A16S
ATOM	17624	O1P	U	A	841	157.623	145.928	-56.225	1.00198.84		A16S
ATOM	17625	O2P	U	A	841	160.053	146.652	-56.606	1.00198.84		A16S
ATOM	17626	O5*	U	A	841	159.530	144.649	-55.233	1.00198.62		A16S



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ATOM	17627	C5*	U	A	841	159.775	145.190	-53.921	1.00198.62	A16S
ATOM	17628	C4*	U	A	841	161.236	145.545	-53.770	1.00198.62	A16S
ATOM	17629	O4*	U	A	841	161.497	146.739	-54.553	1.00198.62	A16S
ATOM	17630	C1*	U	A	841	162.391	147.590	-53.855	1.00198.62	A16S
ATOM	17631	N1	U	A	841	161.698	148.860	-53.569	1.00198.84	A16S
ATOM	17632	C6	U	A	841	160.316	148.925	-53.498	1.00198.84	A16S
ATOM	17633	C2	U	A	841	162.473	150.001	-53.366	1.00198.84	A16S
ATOM	17634	O2	U	A	841	163.697	150.000	-53.418	1.00198.84	A16S
ATOM	17635	N3	U	A	841	161.759	151.145	-53.096	1.00198.84	A16S
ATOM	17636	C4	U	A	841	160.385	151.273	-53.007	1.00198.84	A16S
ATOM	17637	O4	U	A	841	159.895	152.371	-52.733	1.00198.84	A16S
ATOM	17638	C5	U	A	841	159.655	150.059	-53.232	1.00198.84	A16S
ATOM	17639	C2*	U	A	841	162.839	146.857	-52.589	1.00198.62	A16S
ATOM	17640	O2*	U	A	841	164.056	146.179	-52.834	1.00198.62	A16S
ATOM	17641	C3*	U	A	841	161.672	145.906	-52.356	1.00198.62	A16S
ATOM	17642	O3*	U	A	841	162.082	144.753	-51.624	1.00198.62	A16S
ATOM	17643	P	C	A	848	162.069	144.780	-50.014	1.00182.64	A16S
ATOM	17644	O1P	C	A	848	162.077	146.210	-49.592	1.00149.12	A16S
ATOM	17645	O2P	C	A	848	163.141	143.871	-49.532	1.00149.12	A16S
ATOM	17646	O5*	C	A	848	160.660	144.138	-49.625	1.00182.64	A16S
ATOM	17647	C5*	C	A	848	159.502	144.967	-49.393	1.00182.64	A16S
ATOM	17648	C4*	C	A	848	158.252	144.290	-49.908	1.00182.64	A16S
ATOM	17649	O4*	C	A	848	158.367	144.088	-51.343	1.00182.64	A16S
ATOM	17650	C1*	C	A	848	157.731	142.873	-51.710	1.00182.64	A16S
ATOM	17651	N1	C	A	848	158.748	141.965	-52.281	1.00149.12	A16S
ATOM	17652	C6	C	A	848	159.927	141.735	-51.621	1.00149.12	A16S
ATOM	17653	C2	C	A	848	158.498	141.337	-53.518	1.00149.12	A16S
ATOM	17654	O2	C	A	848	157.418	141.541	-54.096	1.00149.12	A16S
ATOM	17655	N3	C	A	848	159.445	140.522	-54.046	1.00149.12	A16S
ATOM	17656	C4	C	A	848	160.595	140.320	-53.392	1.00149.12	A16S
ATOM	17657	N4	C	A	848	161.508	139.523	-53.954	1.00149.12	A16S
ATOM	17658	C5	C	A	848	160.865	140.930	-52.133	1.00149.12	A16S
ATOM	17659	C2*	C	A	848	157.080	142.302	-50.452	1.00182.64	A16S
ATOM	17660	O2*	C	A	848	155.745	142.757	-50.382	1.00182.64	A16S
ATOM	17661	C3*	C	A	848	157.950	142.906	-49.357	1.00182.64	A16S
ATOM	17662	O3*	C	A	848	157.277	142.946	-48.107	1.00182.64	A16S
ATOM	17663	P	C	A	849	157.061	141.581	-47.277	1.00148.22	A16S
ATOM	17664	O1P	C	A	849	156.687	141.983	-45.894	1.00106.63	A16S
ATOM	17665	O2P	C	A	849	158.233	140.680	-47.488	1.00106.63	A16S
ATOM	17666	O5*	C	A	849	155.790	140.905	-47.969	1.00148.22	A16S
ATOM	17667	C5*	C	A	849	154.503	141.558	-47.947	1.00148.22	A16S
ATOM	17668	C4*	C	A	849	153.519	140.844	-48.849	1.00148.22	A16S
ATOM	17669	O4*	C	A	849	153.925	140.955	-50.237	1.00148.22	A16S
ATOM	17670	C1*	C	A	849	153.523	139.795	-50.947	1.00148.22	A16S
ATOM	17671	N1	C	A	849	154.709	139.177	-51.577	1.00106.63	A16S
ATOM	17672	C6	C	A	849	155.935	139.209	-50.969	1.00106.63	A16S
ATOM	17673	C2	C	A	849	154.555	138.542	-52.815	1.00106.63	A16S
ATOM	17674	O2	C	A	849	153.442	138.546	-53.360	1.00106.63	A16S
ATOM	17675	N3	C	A	849	155.623	137.950	-53.393	1.00106.63	A16S
ATOM	17676	C4	C	A	849	156.810	137.989	-52.793	1.00106.63	A16S
ATOM	17677	N4	C	A	849	157.832	137.401	-53.404	1.00106.63	A16S
ATOM	17678	C5	C	A	849	157.002	138.635	-51.539	1.00106.63	A16S
ATOM	17679	C2*	C	A	849	152.811	138.865	-49.964	1.00148.22	A16S
ATOM	17680	O2*	C	A	849	151.412	139.025	-50.094	1.00148.22	A16S
ATOM	17681	C3*	C	A	849	153.352	139.353	-48.625	1.00148.22	A16S
ATOM	17682	O3*	C	A	849	152.465	139.082	-47.555	1.00148.22	A16S
ATOM	17683	P	U	A	850	152.636	137.722	-46.725	1.00102.44	A16S
ATOM	17684	O1P	U	A	850	151.639	137.720	-45.617	1.00101.90	A16S
ATOM	17685	O2P	U	A	850	154.083	137.579	-46.408	1.00101.90	A16S
ATOM	17686	O5*	U	A	850	152.236	136.594	-47.783	1.00102.44	A16S
ATOM	17687	C5*	U	A	850	150.922	136.572	-48.385	1.00102.44	A16S
ATOM	17688	C4*	U	A	850	150.854	135.544	-49.497	1.00102.44	A16S
ATOM	17689	O4*	U	A	850	151.670	135.965	-50.625	1.00102.44	A16S
ATOM	17690	C1*	U	A	850	152.199	134.821	-51.281	1.00102.44	A16S
ATOM	17691	N1	U	A	850	153.671	134.861	-51.230	1.00101.90	A16S
ATOM	17692	C6	U	A	850	154.353	135.619	-50.308	1.00101.90	A16S
ATOM	17693	C2	U	A	850	154.359	134.077	-52.145	1.00101.90	A16S
ATOM	17694	O2	U	A	850	153.804	133.401	-52.994	1.00101.90	A16S
ATOM	17695	N3	U	A	850	155.722	134.105	-52.029	1.00101.90	A16S
ATOM	17696	C4	U	A	850	156.460	134.817	-51.126	1.00101.90	A16S
ATOM	17697	O4	U	A	850	157.685	134.684	-51.119	1.00101.90	A16S
ATOM	17698	C5	U	A	850	155.689	135.622	-50.226	1.00101.90	A16S
ATOM	17699	C2*	U	A	850	151.676	133.583	-50.552	1.00102.44	A16S
ATOM	17700	O2*	U	A	850	150.542	133.049	-51.212	1.00102.44	A16S
ATOM	17701	C3*	U	A	850	151.362	134.147	-49.176	1.00102.44	A16S
ATOM	17702	O3*	U	A	850	150.434	133.334	-48.483	1.00102.44	A16S
ATOM	17703	P	G	A	851	150.984	132.176	-47.511	1.00 93.94	A16S



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ATOM	17704	O1P	G	A	851	149.800	131.658	-46.764	1.00	84.48	A16S
ATOM	17705	O2P	G	A	851	152.160	132.711	-46.755	1.00	84.48	A16S
ATOM	17706	O5*	G	A	851	151.507	131.030	-48.500	1.00	93.94	A16S
ATOM	17707	C5*	G	A	851	150.564	130.178	-49.174	1.00	93.94	A16S
ATOM	17708	C4*	G	A	851	151.247	129.089	-49.984	1.00	93.94	A16S
ATOM	17709	O4*	G	A	851	151.850	129.617	-51.193	1.00	93.94	A16S
ATOM	17710	C1*	G	A	851	152.839	128.711	-51.654	1.00	93.94	A16S
ATOM	17711	N9	G	A	851	154.126	129.397	-51.739	1.00	84.48	A16S
ATOM	17712	C4	G	A	851	155.280	128.950	-52.380	1.00	84.48	A16S
ATOM	17713	N3	G	A	851	155.414	127.812	-53.099	1.00	84.48	A16S
ATOM	17714	C2	G	A	851	156.651	127.647	-53.543	1.00	84.48	A16S
ATOM	17715	N2	G	A	851	156.962	126.567	-54.260	1.00	84.48	A16S
ATOM	17716	N1	G	A	851	157.669	128.528	-53.312	1.00	84.48	A16S
ATOM	17717	C6	G	A	851	157.556	129.709	-52.588	1.00	84.48	A16S
ATOM	17718	O6	G	A	851	158.543	130.454	-52.449	1.00	84.48	A16S
ATOM	17719	C5	G	A	851	156.239	129.895	-52.096	1.00	84.48	A16S
ATOM	17720	N7	G	A	851	155.704	130.927	-51.336	1.00	84.48	A16S
ATOM	17721	C8	G	A	851	154.453	130.594	-51.159	1.00	84.48	A16S
ATOM	17722	C2*	G	A	851	152.905	127.566	-50.641	1.00	93.94	A16S
ATOM	17723	O2*	G	A	851	152.081	126.516	-51.101	1.00	93.94	A16S
ATOM	17724	C3*	G	A	851	152.327	128.204	-49.383	1.00	93.94	A16S
ATOM	17725	O3*	G	A	851	151.818	127.173	-48.533	1.00	93.94	A16S
ATOM	17726	P	G	A	852	152.820	126.370	-47.543	1.00	82.46	A16S
ATOM	17727	O1P	G	A	852	151.999	125.355	-46.851	1.00	81.86	A16S
ATOM	17728	O2P	G	A	852	153.629	127.336	-46.738	1.00	81.86	A16S
ATOM	17729	O5*	G	A	852	153.811	125.564	-48.505	1.00	82.46	A16S
ATOM	17730	C5*	G	A	852	153.377	124.359	-49.187	1.00	82.46	A16S
ATOM	17731	C4*	G	A	852	154.516	123.746	-49.984	1.00	82.46	A16S
ATOM	17732	O4*	G	A	852	154.950	124.673	-51.012	1.00	82.46	A16S
ATOM	17733	C1*	G	A	852	156.348	124.552	-51.214	1.00	82.46	A16S
ATOM	17734	N9	G	A	852	156.980	125.811	-50.832	1.00	81.86	A16S
ATOM	17735	C4	G	A	852	158.287	126.172	-51.053	1.00	81.86	A16S
ATOM	17736	N3	G	A	852	159.222	125.423	-51.668	1.00	81.86	A16S
ATOM	17737	C2	G	A	852	160.389	126.038	-51.724	1.00	81.86	A16S
ATOM	17738	N2	G	A	852	161.427	125.429	-52.297	1.00	81.86	A16S
ATOM	17739	N1	G	A	852	160.625	127.290	-51.218	1.00	81.86	A16S
ATOM	17740	C6	G	A	852	159.682	128.075	-50.566	1.00	81.86	A16S
ATOM	17741	O6	G	A	852	160.005	129.187	-50.115	1.00	81.86	A16S
ATOM	17742	C5	G	A	852	158.419	127.428	-50.504	1.00	81.86	A16S
ATOM	17743	N7	G	A	852	157.220	127.851	-49.952	1.00	81.86	A16S
ATOM	17744	C8	G	A	852	156.398	126.861	-50.169	1.00	81.86	A16S
ATOM	17745	C2*	G	A	852	156.838	123.414	-50.328	1.00	82.46	A16S
ATOM	17746	O2*	G	A	852	156.855	122.218	-51.080	1.00	82.46	A16S
ATOM	17747	C3*	G	A	852	155.788	123.415	-49.226	1.00	82.46	A16S
ATOM	17748	O3*	G	A	852	155.730	122.167	-48.555	1.00	82.46	A16S
ATOM	17749	P	G	A	853	156.449	122.010	-47.118	1.00	74.68	A16S
ATOM	17750	O1P	G	A	853	156.044	120.675	-46.562	1.00	73.28	A16S
ATOM	17751	O2P	G	A	853	156.172	123.258	-46.336	1.00	73.28	A16S
ATOM	17752	O5*	G	A	853	158.018	122.012	-47.436	1.00	74.68	A16S
ATOM	17753	C5*	G	A	853	158.610	120.974	-48.228	1.00	74.68	A16S
ATOM	17754	C4*	G	A	853	160.054	121.297	-48.565	1.00	74.68	A16S
ATOM	17755	O4*	G	A	853	160.137	122.475	-49.411	1.00	74.68	A16S
ATOM	17756	C1*	G	A	853	161.430	123.035	-49.301	1.00	74.68	A16S
ATOM	17757	N9	G	A	853	161.332	124.448	-48.953	1.00	73.28	A16S
ATOM	17758	C4	G	A	853	162.385	125.339	-48.889	1.00	73.28	A16S
ATOM	17759	N3	G	A	853	163.680	125.068	-49.190	1.00	73.28	A16S
ATOM	17760	C2	G	A	853	164.468	126.119	-48.997	1.00	73.28	A16S
ATOM	17761	N2	G	A	853	165.784	126.021	-49.255	1.00	73.28	A16S
ATOM	17762	N1	G	A	853	164.021	127.343	-48.536	1.00	73.28	A16S
ATOM	17763	C6	G	A	853	162.694	127.646	-48.213	1.00	73.28	A16S
ATOM	17764	O6	G	A	853	162.393	128.784	-47.783	1.00	73.28	A16S
ATOM	17765	C5	G	A	853	161.834	126.521	-48.432	1.00	73.28	A16S
ATOM	17766	N7	G	A	853	160.462	126.388	-48.252	1.00	73.28	A16S
ATOM	17767	C8	G	A	853	160.210	125.148	-48.583	1.00	73.28	A16S
ATOM	17768	C2*	G	A	853	162.176	122.256	-48.217	1.00	74.68	A16S
ATOM	17769	O2*	G	A	853	163.008	121.304	-48.847	1.00	74.68	A16S
ATOM	17770	C3*	G	A	853	161.041	121.594	-47.448	1.00	74.68	A16S
ATOM	17771	O3*	G	A	853	161.522	120.420	-46.793	1.00	74.68	A16S
ATOM	17772	P	G	A	854	162.182	120.534	-45.320	1.00	61.70	A16S
ATOM	17773	O1P	G	A	854	162.422	119.155	-44.798	1.00	67.87	A16S
ATOM	17774	O2P	G	A	854	161.371	121.503	-44.510	1.00	67.87	A16S
ATOM	17775	O5*	G	A	854	163.606	121.208	-45.569	1.00	61.70	A16S
ATOM	17776	C5*	G	A	854	164.546	120.586	-46.444	1.00	61.70	A16S
ATOM	17777	C4*	G	A	854	165.782	121.429	-46.590	1.00	61.70	A16S
ATOM	17778	O4*	G	A	854	165.484	122.696	-47.232	1.00	61.70	A16S
ATOM	17779	C1*	G	A	854	166.418	123.675	-46.802	1.00	61.70	A16S
ATOM	17780	N9	G	A	854	165.688	124.832	-46.289	1.00	67.87	A16S



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ATOM	17781	C4	G	A 854	166.208	126.078	-45.977	1.00	67.87	A16S
ATOM	17782	N3	G	A 854	167.504	126.445	-46.045	1.00	67.87	A16S
ATOM	17783	C2	G	A 854	167.675	127.714	-45.699	1.00	67.87	A16S
ATOM	17784	N2	G	A 854	168.892	128.248	-45.684	1.00	67.87	A16S
ATOM	17785	N1	G	A 854	166.663	128.554	-45.337	1.00	67.87	A16S
ATOM	17786	C6	G	A 854	165.325	128.203	-45.265	1.00	67.87	A16S
ATOM	17787	O6	G	A 854	164.490	129.047	-44.935	1.00	67.87	A16S
ATOM	17788	C5	G	A 854	165.122	126.843	-45.609	1.00	67.87	A16S
ATOM	17789	N7	G	A 854	163.955	126.093	-45.647	1.00	67.87	A16S
ATOM	17790	C8	G	A 854	164.339	124.909	-46.048	1.00	67.87	A16S
ATOM	17791	C2*	G	A 854	167.331	123.011	-45.773	1.00	61.70	A16S
ATOM	17792	O2*	G	A 854	168.510	122.572	-46.419	1.00	61.70	A16S
ATOM	17793	C3*	G	A 854	166.479	121.833	-45.315	1.00	61.70	A16S
ATOM	17794	O3*	G	A 854	167.267	120.793	-44.781	1.00	61.70	A16S
ATOM	17795	P	G	A 855	167.659	120.846	-43.230	1.00	61.18	A16S
ATOM	17796	O1P	G	A 855	168.687	119.807	-42.972	1.00	57.93	A16S
ATOM	17797	O2P	G	A 855	166.402	120.848	-42.440	1.00	57.93	A16S
ATOM	17798	O5*	G	A 855	168.347	122.278	-43.090	1.00	61.18	A16S
ATOM	17799	C5*	G	A 855	168.265	123.032	-41.871	1.00	61.18	A16S
ATOM	17800	C4*	G	A 855	169.285	124.136	-41.882	1.00	61.18	A16S
ATOM	17801	O4*	G	A 855	168.965	125.083	-42.930	1.00	61.18	A16S
ATOM	17802	C1*	G	A 855	169.371	126.388	-42.535	1.00	61.18	A16S
ATOM	17803	N9	G	A 855	168.202	127.253	-42.509	1.00	57.93	A16S
ATOM	17804	C4	G	A 855	168.196	128.595	-42.215	1.00	57.93	A16S
ATOM	17805	N3	G	A 855	169.279	129.352	-41.940	1.00	57.93	A16S
ATOM	17806	C2	G	A 855	168.949	130.605	-41.653	1.00	57.93	A16S
ATOM	17807	N2	G	A 855	169.909	131.499	-41.362	1.00	57.93	A16S
ATOM	17808	N1	G	A 855	167.656	131.073	-41.632	1.00	57.93	A16S
ATOM	17809	C6	G	A 855	166.526	130.311	-41.916	1.00	57.93	A16S
ATOM	17810	O6	G	A 855	165.399	130.830	-41.868	1.00	57.93	A16S
ATOM	17811	C5	G	A 855	166.869	128.967	-42.232	1.00	57.93	A16S
ATOM	17812	N7	G	A 855	166.061	127.886	-42.561	1.00	57.93	A16S
ATOM	17813	C8	G	A 855	166.895	126.894	-42.726	1.00	57.93	A16S
ATOM	17814	C2*	G	A 855	169.955	126.282	-41.130	1.00	61.18	A16S
ATOM	17815	O2*	G	A 855	171.359	126.183	-41.196	1.00	61.18	A16S
ATOM	17816	C3*	G	A 855	169.316	124.997	-40.639	1.00	61.18	A16S
ATOM	17817	O3*	G	A 855	170.056	124.405	-39.603	1.00	61.18	A16S
ATOM	17818	P	C	A 856	169.577	124.619	-38.082	1.00	64.20	A16S
ATOM	17819	O1P	C	A 856	170.346	123.622	-37.271	1.00	51.61	A16S
ATOM	17820	O2P	C	A 856	168.076	124.597	-38.061	1.00	51.61	A16S
ATOM	17821	O5*	C	A 856	170.050	126.103	-37.723	1.00	64.20	A16S
ATOM	17822	C5*	C	A 856	171.438	126.456	-37.739	1.00	64.20	A16S
ATOM	17823	C4*	C	A 856	171.593	127.954	-37.744	1.00	64.20	A16S
ATOM	17824	O4*	C	A 856	170.856	128.506	-38.859	1.00	64.20	A16S
ATOM	17825	C1*	C	A 856	170.326	129.772	-38.505	1.00	64.20	A16S
ATOM	17826	N1	C	A 856	168.865	129.710	-38.598	1.00	51.61	A16S
ATOM	17827	C6	C	A 856	168.214	128.525	-38.797	1.00	51.61	A16S
ATOM	17828	C2	C	A 856	168.152	130.887	-38.469	1.00	51.61	A16S
ATOM	17829	O2	C	A 856	168.776	131.938	-38.296	1.00	51.61	A16S
ATOM	17830	N3	C	A 856	166.810	130.861	-38.534	1.00	51.61	A16S
ATOM	17831	C4	C	A 856	166.178	129.707	-38.719	1.00	51.61	A16S
ATOM	17832	N4	C	A 856	164.843	129.725	-38.764	1.00	51.61	A16S
ATOM	17833	C5	C	A 856	166.883	128.479	-38.864	1.00	51.61	A16S
ATOM	17834	C2*	C	A 856	170.750	130.071	-37.075	1.00	64.20	A16S
ATOM	17835	O2*	C	A 856	171.900	130.880	-37.071	1.00	64.20	A16S
ATOM	17836	C3*	C	A 856	171.017	128.677	-36.547	1.00	64.20	A16S
ATOM	17837	O3*	C	A 856	171.910	128.714	-35.469	1.00	64.20	A16S
ATOM	17838	P	C	A 857	171.328	128.566	-33.991	1.00	78.11	A16S
ATOM	17839	O1P	C	A 857	172.529	128.414	-33.127	1.00	66.72	A16S
ATOM	17840	O2P	C	A 857	170.277	127.506	-33.995	1.00	66.72	A16S
ATOM	17841	O5*	C	A 857	170.624	129.969	-33.726	1.00	78.11	A16S
ATOM	17842	C5*	C	A 857	171.420	131.144	-33.534	1.00	78.11	A16S
ATOM	17843	C4*	C	A 857	170.548	132.365	-33.373	1.00	78.11	A16S
ATOM	17844	O4*	C	A 857	169.753	132.549	-34.570	1.00	78.11	A16S
ATOM	17845	C1*	C	A 857	168.556	133.225	-34.239	1.00	78.11	A16S
ATOM	17846	N1	C	A 857	167.407	132.418	-34.658	1.00	66.72	A16S
ATOM	17847	C6	C	A 857	167.532	131.093	-34.981	1.00	66.72	A16S
ATOM	17848	C2	C	A 857	166.159	133.040	-34.697	1.00	66.72	A16S
ATOM	17849	O2	C	A 857	166.090	134.248	-34.409	1.00	66.72	A16S
ATOM	17850	N3	C	A 857	165.065	132.317	-35.038	1.00	66.72	A16S
ATOM	17851	C4	C	A 857	165.193	131.023	-35.332	1.00	66.72	A16S
ATOM	17852	N4	C	A 857	164.092	130.347	-35.641	1.00	66.72	A16S
ATOM	17853	C5	C	A 857	166.460	130.364	-35.317	1.00	66.72	A16S
ATOM	17854	C2*	C	A 857	168.538	133.433	-32.726	1.00	78.11	A16S
ATOM	17855	O2*	C	A 857	168.969	134.744	-32.441	1.00	78.11	A16S
ATOM	17856	C3*	C	A 857	169.524	132.377	-32.249	1.00	78.11	A16S
ATOM	17857	O3*	C	A 857	170.074	132.748	-30.995	1.00	78.11	A16S



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ATOM	17858	P	G	A	858	169.412	132.177	-29.640	1.00	82.37	A16S
ATOM	17859	O1P	G	A	858	170.071	132.923	-28.515	1.00	63.46	A16S
ATOM	17860	O2P	G	A	858	169.486	130.675	-29.673	1.00	63.46	A16S
ATOM	17861	O5*	G	A	858	167.868	132.611	-29.727	1.00	82.37	A16S
ATOM	17862	C5*	G	A	858	167.400	133.831	-29.088	1.00	82.37	A16S
ATOM	17863	C4*	G	A	858	166.023	134.247	-29.598	1.00	82.37	A16S
ATOM	17864	O4*	G	A	858	165.898	133.928	-31.008	1.00	82.37	A16S
ATOM	17865	C1*	G	A	858	164.564	133.574	-31.303	1.00	82.37	A16S
ATOM	17866	N9	G	A	858	164.553	132.159	-31.648	1.00	63.46	A16S
ATOM	17867	C4	G	A	858	163.496	131.448	-32.135	1.00	63.46	A16S
ATOM	17868	N3	G	A	858	162.276	131.942	-32.402	1.00	63.46	A16S
ATOM	17869	C2	G	A	858	161.460	131.010	-32.841	1.00	63.46	A16S
ATOM	17870	N2	G	A	858	160.200	131.324	-33.146	1.00	63.46	A16S
ATOM	17871	N1	G	A	858	161.819	129.692	-33.012	1.00	63.46	A16S
ATOM	17872	C6	G	A	858	163.084	129.163	-32.749	1.00	63.46	A16S
ATOM	17873	O6	G	A	858	163.320	127.957	-32.952	1.00	63.46	A16S
ATOM	17874	C5	G	A	858	163.957	130.150	-32.269	1.00	63.46	A16S
ATOM	17875	N7	G	A	858	165.286	130.053	-31.887	1.00	63.46	A16S
ATOM	17876	C8	G	A	858	165.600	131.267	-31.529	1.00	63.46	A16S
ATOM	17877	C2*	G	A	858	163.741	133.841	-30.047	1.00	82.37	A16S
ATOM	17878	O2*	G	A	858	163.323	135.183	-30.131	1.00	82.37	A16S
ATOM	17879	C3*	G	A	858	164.779	133.648	-28.948	1.00	82.37	A16S
ATOM	17880	O3*	G	A	858	164.432	134.375	-27.758	1.00	82.37	A16S
ATOM	17881	P	A	A	859	163.360	133.763	-26.700	1.00	64.87	A16S
ATOM	17882	O1P	A	A	859	163.440	134.598	-25.457	1.00	73.45	A16S
ATOM	17883	O2P	A	A	859	163.516	132.285	-26.591	1.00	73.45	A16S
ATOM	17884	O5*	A	A	859	161.943	134.048	-27.381	1.00	64.87	A16S
ATOM	17885	C5*	A	A	859	161.549	135.398	-27.684	1.00	64.87	A16S
ATOM	17886	C4*	A	A	859	160.060	135.583	-27.526	1.00	64.87	A16S
ATOM	17887	O4*	A	A	859	159.359	135.234	-28.742	1.00	64.87	A16S
ATOM	17888	C1*	A	A	859	158.019	134.914	-28.424	1.00	64.87	A16S
ATOM	17889	N9	A	A	859	157.679	133.613	-28.996	1.00	73.45	A16S
ATOM	17890	C4	A	A	859	156.403	133.126	-29.135	1.00	73.45	A16S
ATOM	17891	N3	A	A	859	155.257	133.755	-28.833	1.00	73.45	A16S
ATOM	17892	C2	A	A	859	154.213	132.960	-29.062	1.00	73.45	A16S
ATOM	17893	N1	A	A	859	154.190	131.705	-29.514	1.00	73.45	A16S
ATOM	17894	C6	A	A	859	155.362	131.102	-29.800	1.00	73.45	A16S
ATOM	17895	N6	A	A	859	155.340	129.840	-30.228	1.00	73.45	A16S
ATOM	17896	C5	A	A	859	156.538	131.841	-29.619	1.00	73.45	A16S
ATOM	17897	N7	A	A	859	157.873	131.534	-29.826	1.00	73.45	A16S
ATOM	17898	C8	A	A	859	158.508	132.620	-29.451	1.00	73.45	A16S
ATOM	17899	C2*	A	A	859	157.893	134.918	-26.896	1.00	64.87	A16S
ATOM	17900	O2*	A	A	859	157.350	136.150	-26.479	1.00	64.87	A16S
ATOM	17901	C3*	A	A	859	159.340	134.797	-26.451	1.00	64.87	A16S
ATOM	17902	O3*	A	A	859	159.516	135.315	-25.144	1.00	64.87	A16S
ATOM	17903	P	A	A	860	159.531	134.294	-23.900	1.00	63.68	A16S
ATOM	17904	O1P	A	A	860	159.570	135.071	-22.644	1.00	79.92	A16S
ATOM	17905	O2P	A	A	860	160.584	133.273	-24.145	1.00	79.92	A16S
ATOM	17906	O5*	A	A	860	158.100	133.591	-23.992	1.00	63.68	A16S
ATOM	17907	C5*	A	A	860	156.894	134.337	-23.706	1.00	63.68	A16S
ATOM	17908	C4*	A	A	860	155.659	133.482	-23.913	1.00	63.68	A16S
ATOM	17909	O4*	A	A	860	155.490	133.190	-25.324	1.00	63.68	A16S
ATOM	17910	C1*	A	A	860	154.990	131.870	-25.482	1.00	63.68	A16S
ATOM	17911	N9	A	A	860	156.015	131.078	-26.168	1.00	79.92	A16S
ATOM	17912	C4	A	A	860	155.862	129.844	-26.752	1.00	79.92	A16S
ATOM	17913	N3	A	A	860	154.738	129.128	-26.855	1.00	79.92	A16S
ATOM	17914	C2	A	A	860	154.975	127.981	-27.475	1.00	79.92	A16S
ATOM	17915	N1	A	A	860	156.122	127.503	-27.963	1.00	79.92	A16S
ATOM	17916	C6	A	A	860	157.234	128.246	-27.833	1.00	79.92	A16S
ATOM	17917	N6	A	A	860	158.385	127.763	-28.302	1.00	79.92	A16S
ATOM	17918	C5	A	A	860	157.115	129.484	-27.205	1.00	79.92	A16S
ATOM	17919	N7	A	A	860	158.039	130.477	-26.936	1.00	79.92	A16S
ATOM	17920	C8	A	A	860	157.340	131.400	-26.328	1.00	79.92	A16S
ATOM	17921	C2*	A	A	860	154.712	131.312	-24.081	1.00	63.68	A16S
ATOM	17922	O2*	A	A	860	153.363	131.522	-23.731	1.00	63.68	A16S
ATOM	17923	C3*	A	A	860	155.658	132.132	-23.221	1.00	63.68	A16S
ATOM	17924	O3*	A	A	860	155.170	132.229	-21.901	1.00	63.68	A16S
ATOM	17925	P	G	A	861	155.889	131.397	-20.729	1.00	56.26	A16S
ATOM	17926	O1P	G	A	861	155.112	131.641	-19.478	1.00	74.84	A16S
ATOM	17927	O2P	G	A	861	157.355	131.694	-20.759	1.00	74.84	A16S
ATOM	17928	O5*	G	A	861	155.685	129.876	-21.155	1.00	56.26	A16S
ATOM	17929	C5*	G	A	861	154.367	129.348	-21.343	1.00	56.26	A16S
ATOM	17930	C4*	G	A	861	154.421	128.054	-22.120	1.00	56.26	A16S
ATOM	17931	O4*	G	A	861	154.895	128.316	-23.467	1.00	56.26	A16S
ATOM	17932	C1*	G	A	861	155.721	127.248	-23.898	1.00	56.26	A16S
ATOM	17933	N9	G	A	861	157.071	127.774	-24.080	1.00	74.84	A16S
ATOM	17934	C4	G	A	861	158.101	127.191	-24.783	1.00	74.84	A16S



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ATOM	17935	N3	G	A	861	158.057	125.998	-25.416	1.00	74.84	A16S
ATOM	17936	C2	G	A	861	159.198	125.714	-26.015	1.00	74.84	A16S
ATOM	17937	N2	G	A	861	159.329	124.556	-26.670	1.00	74.84	A16S
ATOM	17938	N1	G	A	861	160.296	126.544	-26.011	1.00	74.84	A16S
ATOM	17939	C6	G	A	861	160.365	127.779	-25.365	1.00	74.84	A16S
ATOM	17940	O6	G	A	861	161.405	128.464	-25.428	1.00	74.84	A16S
ATOM	17941	C5	G	A	861	159.150	128.082	-24.699	1.00	74.84	A16S
ATOM	17942	N7	G	A	861	158.800	129.185	-23.930	1.00	74.84	A16S
ATOM	17943	C8	G	A	861	157.563	128.958	-23.586	1.00	74.84	A16S
ATOM	17944	C2*	G	A	861	155.670	126.169	-22.816	1.00	56.26	A16S
ATOM	17945	O2*	G	A	861	154.631	125.256	-23.101	1.00	56.26	A16S
ATOM	17946	C3*	G	A	861	155.362	126.992	-21.579	1.00	56.26	A16S
ATOM	17947	O3*	G	A	861	154.779	126.195	-20.561	1.00	56.26	A16S
ATOM	17948	P	C	A	862	155.738	125.458	-19.502	1.00	66.60	A16S
ATOM	17949	O1P	C	A	862	154.895	124.794	-18.474	1.00	67.00	A16S
ATOM	17950	O2P	C	A	862	156.779	126.424	-19.077	1.00	67.00	A16S
ATOM	17951	O5*	C	A	862	156.465	124.341	-20.366	1.00	66.60	A16S
ATOM	17952	C5*	C	A	862	155.701	123.344	-21.053	1.00	66.60	A16S
ATOM	17953	C4*	C	A	862	156.621	122.395	-21.766	1.00	66.60	A16S
ATOM	17954	O4*	C	A	862	157.250	123.077	-22.871	1.00	66.60	A16S
ATOM	17955	C1*	C	A	862	158.572	122.617	-23.011	1.00	66.60	A16S
ATOM	17956	N1	C	A	862	159.477	123.762	-22.898	1.00	67.00	A16S
ATOM	17957	C6	C	A	862	159.110	124.886	-22.225	1.00	67.00	A16S
ATOM	17958	C2	C	A	862	160.725	123.682	-23.496	1.00	67.00	A16S
ATOM	17959	O2	C	A	862	161.026	122.653	-24.110	1.00	67.00	A16S
ATOM	17960	N3	C	A	862	161.573	124.720	-23.401	1.00	67.00	A16S
ATOM	17961	C4	C	A	862	161.207	125.811	-22.751	1.00	67.00	A16S
ATOM	17962	N4	C	A	862	162.070	126.811	-22.693	1.00	67.00	A16S
ATOM	17963	C5	C	A	862	159.937	125.927	-22.132	1.00	67.00	A16S
ATOM	17964	C2*	C	A	862	158.821	121.530	-21.965	1.00	66.60	A16S
ATOM	17965	O2*	C	A	862	158.615	120.278	-22.591	1.00	66.60	A16S
ATOM	17966	C3*	C	A	862	157.761	121.852	-20.920	1.00	66.60	A16S
ATOM	17967	O3*	C	A	862	157.315	120.696	-20.205	1.00	66.60	A16S
ATOM	17968	P	U	A	863	158.112	120.198	-18.896	1.00	60.67	A16S
ATOM	17969	O1P	U	A	863	157.589	118.834	-18.535	1.00	66.16	A16S
ATOM	17970	O2P	U	A	863	158.138	121.269	-17.856	1.00	66.16	A16S
ATOM	17971	O5*	U	A	863	159.600	120.030	-19.441	1.00	60.67	A16S
ATOM	17972	C5*	U	A	863	159.952	118.907	-20.267	1.00	60.67	A16S
ATOM	17973	C4*	U	A	863	161.447	118.785	-20.365	1.00	60.67	A16S
ATOM	17974	O4*	U	A	863	161.977	119.798	-21.247	1.00	60.67	A16S
ATOM	17975	C1*	U	A	863	163.236	120.225	-20.773	1.00	60.67	A16S
ATOM	17976	N1	U	A	863	163.184	121.683	-20.605	1.00	66.16	A16S
ATOM	17977	C6	U	A	863	162.002	122.319	-20.361	1.00	66.16	A16S
ATOM	17978	C2	U	A	863	164.361	122.389	-20.703	1.00	66.16	A16S
ATOM	17979	O2	U	A	863	165.420	121.866	-20.943	1.00	66.16	A16S
ATOM	17980	N3	U	A	863	164.249	123.735	-20.517	1.00	66.16	A16S
ATOM	17981	C4	U	A	863	163.097	124.431	-20.260	1.00	66.16	A16S
ATOM	17982	O4	U	A	863	163.155	125.642	-20.046	1.00	66.16	A16S
ATOM	17983	C5	U	A	863	161.917	123.630	-20.197	1.00	66.16	A16S
ATOM	17984	C2*	U	A	863	163.557	119.426	-19.503	1.00	60.67	A16S
ATOM	17985	O2*	U	A	863	164.349	118.317	-19.853	1.00	60.67	A16S
ATOM	17986	C3*	U	A	863	162.179	118.968	-19.057	1.00	60.67	A16S
ATOM	17987	O3*	U	A	863	162.224	117.726	-18.390	1.00	60.67	A16S
ATOM	17988	P	A	A	864	162.177	117.687	-16.792	1.00	58.53	A16S
ATOM	17989	O1P	A	A	864	162.356	116.260	-16.393	1.00	71.72	A16S
ATOM	17990	O2P	A	A	864	160.982	118.444	-16.310	1.00	71.72	A16S
ATOM	17991	O5*	A	A	864	163.477	118.498	-16.369	1.00	58.53	A16S
ATOM	17992	C5*	A	A	864	163.855	118.611	-14.991	1.00	58.53	A16S
ATOM	17993	C4*	A	A	864	165.343	118.416	-14.851	1.00	58.53	A16S
ATOM	17994	O4*	A	A	864	165.680	117.026	-15.116	1.00	58.53	A16S
ATOM	17995	C1*	A	A	864	166.932	116.961	-15.780	1.00	58.53	A16S
ATOM	17996	N9	A	A	864	166.758	116.215	-17.038	1.00	71.72	A16S
ATOM	17997	C4	A	A	864	167.744	115.560	-17.738	1.00	71.72	A16S
ATOM	17998	N3	A	A	864	169.047	115.488	-17.429	1.00	71.72	A16S
ATOM	17999	C2	A	A	864	169.693	114.748	-18.316	1.00	71.72	A16S
ATOM	18000	N1	A	A	864	169.223	114.113	-19.395	1.00	71.72	A16S
ATOM	18001	C6	A	A	864	167.910	114.201	-19.677	1.00	71.72	A16S
ATOM	18002	N6	A	A	864	167.445	113.548	-20.743	1.00	71.72	A16S
ATOM	18003	C5	A	A	864	167.114	114.969	-18.819	1.00	71.72	A16S
ATOM	18004	N7	A	A	864	165.761	115.262	-18.821	1.00	71.72	A16S
ATOM	18005	C8	A	A	864	165.598	116.003	-17.750	1.00	71.72	A16S
ATOM	18006	C2*	A	A	864	167.462	118.396	-15.923	1.00	58.53	A16S
ATOM	18007	O2*	A	A	864	168.323	118.694	-14.845	1.00	58.53	A16S
ATOM	18008	C3*	A	A	864	166.182	119.214	-15.834	1.00	58.53	A16S
ATOM	18009	O3*	A	A	864	166.400	120.535	-15.365	1.00	58.53	A16S
ATOM	18010	P	A	A	865	166.079	121.789	-16.329	1.00	60.19	A16S
ATOM	18011	O1P	A	A	865	165.845	122.948	-15.436	1.00	58.27	A16S



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ATOM	18012	O2P	A	A	865	165.027	121.409	-17.312	1.00	58.27	A16S
ATOM	18013	O5*	A	A	865	167.461	122.044	-17.092	1.00	60.19	A16S
ATOM	18014	C5*	A	A	865	168.668	122.377	-16.342	1.00	60.19	A16S
ATOM	18015	C4*	A	A	865	169.907	121.808	-17.009	1.00	60.19	A16S
ATOM	18016	O4*	A	A	865	169.823	120.360	-17.056	1.00	60.19	A16S
ATOM	18017	C1*	A	A	865	170.327	119.890	-18.287	1.00	60.19	A16S
ATOM	18018	N9	A	A	865	169.214	119.316	-19.032	1.00	58.27	A16S
ATOM	18019	C4	A	A	865	169.268	118.278	-19.922	1.00	58.27	A16S
ATOM	18020	N3	A	A	865	170.353	117.580	-20.294	1.00	58.27	A16S
ATOM	18021	C2	A	A	865	170.020	116.639	-21.182	1.00	58.27	A16S
ATOM	18022	N1	A	A	865	168.815	116.338	-21.692	1.00	58.27	A16S
ATOM	18023	C6	A	A	865	167.751	117.059	-21.285	1.00	58.27	A16S
ATOM	18024	N6	A	A	865	166.551	116.747	-21.768	1.00	58.27	A16S
ATOM	18025	C5	A	A	865	167.976	118.094	-20.361	1.00	58.27	A16S
ATOM	18026	N7	A	A	865	167.128	119.010	-19.771	1.00	58.27	A16S
ATOM	18027	C8	A	A	865	167.909	119.705	-18.992	1.00	58.27	A16S
ATOM	18028	C2*	A	A	865	170.924	121.086	-19.021	1.00	60.19	A16S
ATOM	18029	O2*	A	A	865	172.286	121.152	-18.671	1.00	60.19	A16S
ATOM	18030	C3*	A	A	865	170.115	122.239	-18.445	1.00	60.19	A16S
ATOM	18031	O3*	A	A	865	170.822	123.462	-18.480	1.00	60.19	A16S
ATOM	18032	P	C	A	866	170.719	124.394	-19.780	1.00	60.73	A16S
ATOM	18033	O1P	C	A	866	171.578	125.600	-19.572	1.00	62.79	A16S
ATOM	18034	O2P	C	A	866	169.275	124.562	-20.135	1.00	62.79	A16S
ATOM	18035	O5*	C	A	866	171.390	123.519	-20.931	1.00	60.73	A16S
ATOM	18036	C5*	C	A	866	172.783	123.169	-20.876	1.00	60.73	A16S
ATOM	18037	C4*	C	A	866	173.102	122.130	-21.919	1.00	60.73	A16S
ATOM	18038	O4*	C	A	866	172.421	120.881	-21.625	1.00	60.73	A16S
ATOM	18039	C1*	C	A	866	172.026	120.267	-22.835	1.00	60.73	A16S
ATOM	18040	N1	C	A	866	170.558	120.166	-22.861	1.00	62.79	A16S
ATOM	18041	C6	C	A	866	169.766	121.087	-22.233	1.00	62.79	A16S
ATOM	18042	C2	C	A	866	169.982	119.110	-23.554	1.00	62.79	A16S
ATOM	18043	O2	C	A	866	170.728	118.294	-24.117	1.00	62.79	A16S
ATOM	18044	N3	C	A	866	168.631	118.999	-23.597	1.00	62.79	A16S
ATOM	18045	C4	C	A	866	167.872	119.892	-22.973	1.00	62.79	A16S
ATOM	18046	N4	C	A	866	166.554	119.727	-23.015	1.00	62.79	A16S
ATOM	18047	C5	C	A	866	168.432	120.988	-22.267	1.00	62.79	A16S
ATOM	18048	C2*	C	A	866	172.544	121.130	-23.983	1.00	60.73	A16S
ATOM	18049	O2*	C	A	866	173.801	120.620	-24.360	1.00	60.73	A16S
ATOM	18050	C3*	C	A	866	172.659	122.491	-23.319	1.00	60.73	A16S
ATOM	18051	O3*	C	A	866	173.645	123.292	-23.920	1.00	60.73	A16S
ATOM	18052	P	G	A	867	173.224	124.356	-25.045	1.00	59.44	A16S
ATOM	18053	O1P	G	A	867	174.475	125.010	-25.532	1.00	70.76	A16S
ATOM	18054	O2P	G	A	867	172.092	125.206	-24.568	1.00	70.76	A16S
ATOM	18055	O5*	G	A	867	172.669	123.430	-26.204	1.00	59.44	A16S
ATOM	18056	C5*	G	A	867	171.535	123.821	-26.959	1.00	59.44	A16S
ATOM	18057	C4*	G	A	867	170.577	122.681	-27.031	1.00	59.44	A16S
ATOM	18058	O4*	G	A	867	170.112	122.362	-25.694	1.00	59.44	A16S
ATOM	18059	C1*	G	A	867	168.721	122.095	-25.728	1.00	59.44	A16S
ATOM	18060	N9	G	A	867	168.042	123.178	-25.009	1.00	70.76	A16S
ATOM	18061	C4	G	A	867	166.688	123.289	-24.715	1.00	70.76	A16S
ATOM	18062	N3	G	A	867	165.728	122.396	-25.020	1.00	70.76	A16S
ATOM	18063	C2	G	A	867	164.542	122.781	-24.592	1.00	70.76	A16S
ATOM	18064	N2	G	A	867	163.484	121.998	-24.788	1.00	70.76	A16S
ATOM	18065	N1	G	A	867	164.308	123.956	-23.937	1.00	70.76	A16S
ATOM	18066	C6	G	A	867	165.274	124.899	-23.625	1.00	70.76	A16S
ATOM	18067	O6	G	A	867	164.955	125.938	-23.045	1.00	70.76	A16S
ATOM	18068	C5	G	A	867	166.555	124.493	-24.057	1.00	70.76	A16S
ATOM	18069	N7	G	A	867	167.785	125.124	-23.926	1.00	70.76	A16S
ATOM	18070	C8	G	A	867	168.633	124.312	-24.502	1.00	70.76	A16S
ATOM	18071	C2*	G	A	867	168.321	122.037	-27.209	1.00	59.44	A16S
ATOM	18072	O2*	G	A	867	168.489	120.712	-27.669	1.00	59.44	A16S
ATOM	18073	C3*	G	A	867	169.336	122.983	-27.839	1.00	59.44	A16S
ATOM	18074	O3*	G	A	867	169.579	122.753	-29.231	1.00	59.44	A16S
ATOM	18075	P	C	A	868	168.890	123.708	-30.336	1.00	64.92	A16S
ATOM	18076	O1P	C	A	868	169.401	123.307	-31.686	1.00	64.04	A16S
ATOM	18077	O2P	C	A	868	168.980	125.132	-29.921	1.00	64.04	A16S
ATOM	18078	O5*	C	A	868	167.356	123.278	-30.263	1.00	64.92	A16S
ATOM	18079	C5*	C	A	868	166.990	121.886	-30.364	1.00	64.92	A16S
ATOM	18080	C4*	C	A	868	165.493	121.703	-30.247	1.00	64.92	A16S
ATOM	18081	O4*	C	A	868	165.077	121.711	-28.858	1.00	64.92	A16S
ATOM	18082	C1*	C	A	868	163.758	122.220	-28.774	1.00	64.92	A16S
ATOM	18083	N1	C	A	868	163.782	123.485	-28.016	1.00	64.04	A16S
ATOM	18084	C6	C	A	868	164.954	124.127	-27.743	1.00	64.04	A16S
ATOM	18085	C2	C	A	868	162.562	124.054	-27.623	1.00	64.04	A16S
ATOM	18086	O2	C	A	868	161.509	123.394	-27.760	1.00	64.04	A16S
ATOM	18087	N3	C	A	868	162.558	125.294	-27.083	1.00	64.04	A16S
ATOM	18088	C4	C	A	868	163.704	125.931	-26.874	1.00	64.04	A16S



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ATOM	18089	N4	C	A	868	163.645	127.164	-26.375	1.00	64.04	A16S
ATOM	18090	C5	C	A	868	164.961	125.337	-27.176	1.00	64.04	A16S
ATOM	18091	C2*	C	A	868	163.282	122.488	-30.207	1.00	64.92	A16S
ATOM	18092	O2*	C	A	868	162.660	121.342	-30.750	1.00	64.92	A16S
ATOM	18093	C3*	C	A	868	164.591	122.722	-30.926	1.00	64.92	A16S
ATOM	18094	O3*	C	A	868	164.415	122.470	-32.304	1.00	64.92	A16S
ATOM	18095	P	G	A	869	164.335	123.703	-33.330	1.00	59.71	A16S
ATOM	18096	O1P	G	A	869	164.030	123.150	-34.671	1.00	64.98	A16S
ATOM	18097	O2P	G	A	869	165.534	124.569	-33.145	1.00	64.98	A16S
ATOM	18098	O5*	G	A	869	163.057	124.523	-32.857	1.00	59.71	A16S
ATOM	18099	C5*	G	A	869	161.750	123.909	-32.786	1.00	59.71	A16S
ATOM	18100	C4*	G	A	869	160.753	124.870	-32.166	1.00	59.71	A16S
ATOM	18101	O4*	G	A	869	161.057	125.090	-30.766	1.00	59.71	A16S
ATOM	18102	C1*	G	A	869	160.818	126.444	-30.427	1.00	59.71	A16S
ATOM	18103	N9	G	A	869	162.083	127.018	-30.004	1.00	64.98	A16S
ATOM	18104	C4	G	A	869	162.266	128.148	-29.265	1.00	64.98	A16S
ATOM	18105	N3	G	A	869	161.296	128.911	-28.739	1.00	64.98	A16S
ATOM	18106	C2	G	A	869	161.795	129.936	-28.085	1.00	64.98	A16S
ATOM	18107	N2	G	A	869	160.989	130.777	-27.441	1.00	64.98	A16S
ATOM	18108	N1	G	A	869	163.131	130.209	-27.996	1.00	64.98	A16S
ATOM	18109	C6	G	A	869	164.140	129.437	-28.542	1.00	64.98	A16S
ATOM	18110	O6	G	A	869	165.321	129.780	-28.421	1.00	64.98	A16S
ATOM	18111	C5	G	A	869	163.627	128.323	-29.200	1.00	64.98	A16S
ATOM	18112	N7	G	A	869	164.286	127.298	-29.850	1.00	64.98	A16S
ATOM	18113	C8	G	A	869	163.331	126.544	-30.307	1.00	64.98	A16S
ATOM	18114	C2*	G	A	869	160.270	127.158	-31.661	1.00	59.71	A16S
ATOM	18115	O2*	G	A	869	158.865	127.295	-31.558	1.00	59.71	A16S
ATOM	18116	C3*	G	A	869	160.753	126.248	-32.787	1.00	59.71	A16S
ATOM	18117	O3*	G	A	869	159.867	126.229	-33.871	1.00	59.71	A16S
ATOM	18118	P	U	A	870	160.079	127.245	-35.081	1.00	62.29	A16S
ATOM	18119	O1P	U	A	870	161.300	126.750	-35.769	1.00	80.82	A16S
ATOM	18120	O2P	U	A	870	160.007	128.660	-34.600	1.00	80.82	A16S
ATOM	18121	O5*	U	A	870	158.807	126.965	-35.985	1.00	62.29	A16S
ATOM	18122	C5*	U	A	870	158.375	125.636	-36.203	1.00	62.29	A16S
ATOM	18123	C4*	U	A	870	157.237	125.636	-37.163	1.00	62.29	A16S
ATOM	18124	O4*	U	A	870	156.015	126.009	-36.478	1.00	62.29	A16S
ATOM	18125	C1*	U	A	870	155.374	127.039	-37.196	1.00	62.29	A16S
ATOM	18126	N1	U	A	870	154.635	127.897	-36.263	1.00	80.82	A16S
ATOM	18127	C6	U	A	870	155.161	128.274	-35.050	1.00	80.82	A16S
ATOM	18128	C2	U	A	870	153.375	128.303	-36.649	1.00	80.82	A16S
ATOM	18129	O2	U	A	870	152.885	128.005	-37.720	1.00	80.82	A16S
ATOM	18130	N3	U	A	870	152.708	129.069	-35.735	1.00	80.82	A16S
ATOM	18131	C4	U	A	870	153.164	129.463	-34.502	1.00	80.82	A16S
ATOM	18132	O4	U	A	870	152.413	130.088	-33.761	1.00	80.82	A16S
ATOM	18133	C5	U	A	870	154.485	129.022	-34.178	1.00	80.82	A16S
ATOM	18134	C2*	U	A	870	156.473	127.758	-37.960	1.00	62.29	A16S
ATOM	18135	O2*	U	A	870	155.890	128.416	-39.063	1.00	62.29	A16S
ATOM	18136	C3*	U	A	870	157.400	126.598	-38.330	1.00	62.29	A16S
ATOM	18137	O3*	U	A	870	156.966	125.959	-39.521	1.00	62.29	A16S
ATOM	18138	P	U	A	871	158.016	125.718	-40.709	1.00	68.47	A16S
ATOM	18139	O1P	U	A	871	159.089	126.737	-40.573	1.00	81.73	A16S
ATOM	18140	O2P	U	A	871	157.259	125.592	-41.991	1.00	81.73	A16S
ATOM	18141	O5*	U	A	871	158.701	124.333	-40.352	1.00	68.47	A16S
ATOM	18142	C5*	U	A	871	157.975	123.113	-40.453	1.00	68.47	A16S
ATOM	18143	C4*	U	A	871	158.856	121.981	-40.025	1.00	68.47	A16S
ATOM	18144	O4*	U	A	871	159.962	121.873	-40.966	1.00	68.47	A16S
ATOM	18145	C1*	U	A	871	161.179	121.915	-40.254	1.00	68.47	A16S
ATOM	18146	N1	U	A	871	162.221	122.501	-41.114	1.00	81.73	A16S
ATOM	18147	C6	U	A	871	162.371	123.856	-41.245	1.00	81.73	A16S
ATOM	18148	C2	U	A	871	163.070	121.630	-41.770	1.00	81.73	A16S
ATOM	18149	O2	U	A	871	162.942	120.413	-41.736	1.00	81.73	A16S
ATOM	18150	N3	U	A	871	164.075	122.233	-42.479	1.00	81.73	A16S
ATOM	18151	C4	U	A	871	164.307	123.582	-42.607	1.00	81.73	A16S
ATOM	18152	O4	U	A	871	165.352	123.968	-43.135	1.00	81.73	A16S
ATOM	18153	C5	U	A	871	163.356	124.409	-41.949	1.00	81.73	A16S
ATOM	18154	C2*	U	A	871	160.881	122.636	-38.933	1.00	68.47	A16S
ATOM	18155	O2*	U	A	871	161.787	122.266	-37.912	1.00	68.47	A16S
ATOM	18156	C3*	U	A	871	159.468	122.152	-38.634	1.00	68.47	A16S
ATOM	18157	O3*	U	A	871	159.556	120.888	-37.997	1.00	68.47	A16S
ATOM	18158	P	A	A	872	158.386	120.405	-37.014	1.00	65.60	A16S
ATOM	18159	O1P	A	A	872	158.513	118.912	-36.870	1.00	61.81	A16S
ATOM	18160	O2P	A	A	872	157.106	121.007	-37.488	1.00	61.81	A16S
ATOM	18161	O5*	A	A	872	158.760	121.059	-35.617	1.00	65.60	A16S
ATOM	18162	C5*	A	A	872	160.021	120.784	-35.038	1.00	65.60	A16S
ATOM	18163	C4*	A	A	872	159.875	120.515	-33.573	1.00	65.60	A16S
ATOM	18164	O4*	A	A	872	159.610	121.754	-32.872	1.00	65.60	A16S
ATOM	18165	C1*	A	A	872	158.617	121.520	-31.920	1.00	65.60	A16S



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ATOM	18166	N9	A	A 872	158.034	122.795	-31.498	1.00	61.81	A16S
ATOM	18167	C4	A	A 872	156.999	123.510	-32.050	1.00	61.81	A16S
ATOM	18168	N3	A	A 872	156.296	123.212	-33.152	1.00	61.81	A16S
ATOM	18169	C2	A	A 872	155.346	124.119	-33.357	1.00	61.81	A16S
ATOM	18170	N1	A	A 872	155.041	125.203	-32.640	1.00	61.81	A16S
ATOM	18171	C6	A	A 872	155.776	125.475	-31.537	1.00	61.81	A16S
ATOM	18172	N6	A	A 872	155.485	126.562	-30.812	1.00	61.81	A16S
ATOM	18173	C5	A	A 872	156.809	124.596	-31.215	1.00	61.81	A16S
ATOM	18174	N7	A	A 872	157.725	124.588	-30.176	1.00	61.81	A16S
ATOM	18175	C8	A	A 872	158.430	123.508	-30.392	1.00	61.81	A16S
ATOM	18176	C2*	A	A 872	157.729	120.444	-32.541	1.00	65.60	A16S
ATOM	18177	O2*	A	A 872	156.999	119.775	-31.530	1.00	65.60	A16S
ATOM	18178	C3*	A	A 872	158.788	119.532	-33.159	1.00	65.60	A16S
ATOM	18179	O3*	A	A 872	159.301	118.717	-32.114	1.00	65.60	A16S
ATOM	18180	P	A	A 873	160.044	117.339	-32.461	1.00	61.51	A16S
ATOM	18181	O1P	A	A 873	161.402	117.672	-32.940	1.00	61.55	A16S
ATOM	18182	O2P	A	A 873	159.166	116.465	-33.274	1.00	61.55	A16S
ATOM	18183	O5*	A	A 873	160.232	116.680	-31.034	1.00	61.51	A16S
ATOM	18184	C5*	A	A 873	159.118	116.500	-30.152	1.00	61.51	A16S
ATOM	18185	C4*	A	A 873	159.363	117.239	-28.860	1.00	61.51	A16S
ATOM	18186	O4*	A	A 873	160.753	117.077	-28.488	1.00	61.51	A16S
ATOM	18187	C1*	A	A 873	161.390	118.340	-28.433	1.00	61.51	A16S
ATOM	18188	N9	A	A 873	162.765	118.168	-28.918	1.00	61.55	A16S
ATOM	18189	C4	A	A 873	163.916	118.578	-28.290	1.00	61.55	A16S
ATOM	18190	N3	A	A 873	164.016	119.311	-27.179	1.00	61.55	A16S
ATOM	18191	C2	A	A 873	165.287	119.471	-26.841	1.00	61.55	A16S
ATOM	18192	N1	A	A 873	166.387	119.004	-27.429	1.00	61.55	A16S
ATOM	18193	C6	A	A 873	166.253	118.260	-28.541	1.00	61.55	A16S
ATOM	18194	N6	A	A 873	167.352	117.749	-29.109	1.00	61.55	A16S
ATOM	18195	C5	A	A 873	164.956	118.047	-29.024	1.00	61.55	A16S
ATOM	18196	N7	A	A 873	164.479	117.382	-30.140	1.00	61.55	A16S
ATOM	18197	C8	A	A 873	163.177	117.497	-30.041	1.00	61.55	A16S
ATOM	18198	C2*	A	A 873	160.492	119.317	-29.194	1.00	61.51	A16S
ATOM	18199	O2*	A	A 873	160.636	120.621	-28.657	1.00	61.51	A16S
ATOM	18200	C3*	A	A 873	159.108	118.736	-28.909	1.00	61.51	A16S
ATOM	18201	O3*	A	A 873	158.711	119.117	-27.583	1.00	61.51	A16S
ATOM	18202	P	G	A 874	157.195	118.872	-27.077	1.00	66.96	A16S
ATOM	18203	O1P	G	A 874	157.298	118.212	-25.740	1.00	60.18	A16S
ATOM	18204	O2P	G	A 874	156.391	118.230	-28.166	1.00	60.18	A16S
ATOM	18205	O5*	G	A 874	156.634	120.348	-26.875	1.00	66.96	A16S
ATOM	18206	C5*	G	A 874	157.141	121.202	-25.837	1.00	66.96	A16S
ATOM	18207	C4*	G	A 874	156.270	122.419	-25.739	1.00	66.96	A16S
ATOM	18208	O4*	G	A 874	156.404	123.176	-26.967	1.00	66.96	A16S
ATOM	18209	C1*	G	A 874	155.142	123.655	-27.381	1.00	66.96	A16S
ATOM	18210	N9	G	A 874	154.843	123.070	-28.683	1.00	60.18	A16S
ATOM	18211	C4	G	A 874	153.784	123.378	-29.523	1.00	60.18	A16S
ATOM	18212	N3	G	A 874	152.821	124.298	-29.300	1.00	60.18	A16S
ATOM	18213	C2	G	A 874	151.925	124.325	-30.279	1.00	60.18	A16S
ATOM	18214	N2	G	A 874	150.888	125.167	-30.225	1.00	60.18	A16S
ATOM	18215	N1	G	A 874	151.973	123.529	-31.381	1.00	60.18	A16S
ATOM	18216	C6	G	A 874	152.952	122.584	-31.635	1.00	60.18	A16S
ATOM	18217	O6	G	A 874	152.898	121.916	-32.666	1.00	60.18	A16S
ATOM	18218	C5	G	A 874	153.918	122.534	-30.600	1.00	60.18	A16S
ATOM	18219	N7	G	A 874	155.038	121.728	-30.458	1.00	60.18	A16S
ATOM	18220	C8	G	A 874	155.555	122.083	-29.312	1.00	60.18	A16S
ATOM	18221	C2*	G	A 874	154.124	123.277	-26.304	1.00	66.96	A16S
ATOM	18222	O2*	G	A 874	153.963	124.381	-25.437	1.00	66.96	A16S
ATOM	18223	C3*	G	A 874	154.794	122.072	-25.653	1.00	66.96	A16S
ATOM	18224	O3*	G	A 874	154.385	121.807	-24.304	1.00	66.96	A16S
ATOM	18225	P	C	A 875	153.178	120.767	-24.025	1.00	62.01	A16S
ATOM	18226	O1P	C	A 875	152.870	120.750	-22.556	1.00	55.30	A16S
ATOM	18227	O2P	C	A 875	153.468	119.479	-24.733	1.00	55.30	A16S
ATOM	18228	O5*	C	A 875	151.937	121.464	-24.735	1.00	62.01	A16S
ATOM	18229	C5*	C	A 875	151.422	122.694	-24.215	1.00	62.01	A16S
ATOM	18230	C4*	C	A 875	150.123	123.044	-24.884	1.00	62.01	A16S
ATOM	18231	O4*	C	A 875	150.370	123.490	-26.235	1.00	62.01	A16S
ATOM	18232	C1*	C	A 875	149.316	123.070	-27.071	1.00	62.01	A16S
ATOM	18233	N1	C	A 875	149.883	122.226	-28.118	1.00	55.30	A16S
ATOM	18234	C6	C	A 875	151.047	121.536	-27.918	1.00	55.30	A16S
ATOM	18235	C2	C	A 875	149.206	122.128	-29.315	1.00	55.30	A16S
ATOM	18236	O2	C	A 875	148.187	122.805	-29.470	1.00	55.30	A16S
ATOM	18237	N3	C	A 875	149.682	121.306	-30.279	1.00	55.30	A16S
ATOM	18238	C4	C	A 875	150.806	120.614	-30.070	1.00	55.30	A16S
ATOM	18239	N4	C	A 875	151.233	119.792	-31.034	1.00	55.30	A16S
ATOM	18240	C5	C	A 875	151.541	120.727	-28.860	1.00	55.30	A16S
ATOM	18241	C2*	C	A 875	148.295	122.319	-26.217	1.00	62.01	A16S
ATOM	18242	O2*	C	A 875	147.231	123.199	-25.923	1.00	62.01	A16S



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ATOM	18243	C3*	C	A	875	149.138	121.904	-25.011	1.00	62.01	A16S
ATOM	18244	O3*	C	A	875	148.393	121.747	-23.804	1.00	62.01	A16S
ATOM	18245	P	G	A	876	147.713	120.329	-23.476	1.00	56.02	A16S
ATOM	18246	O1P	G	A	876	146.571	120.567	-22.561	1.00	65.09	A16S
ATOM	18247	O2P	G	A	876	148.775	119.352	-23.096	1.00	65.09	A16S
ATOM	18248	O5*	G	A	876	147.095	119.917	-24.881	1.00	56.02	A16S
ATOM	18249	C5*	G	A	876	146.620	118.606	-25.131	1.00	56.02	A16S
ATOM	18250	C4*	G	A	876	145.585	118.659	-26.210	1.00	56.02	A16S
ATOM	18251	O4*	G	A	876	146.072	119.487	-27.295	1.00	56.02	A16S
ATOM	18252	C1*	G	A	876	145.676	118.931	-28.541	1.00	56.02	A16S
ATOM	18253	N9	G	A	876	146.878	118.511	-29.260	1.00	65.09	A16S
ATOM	18254	C4	G	A	876	146.971	118.251	-30.603	1.00	65.09	A16S
ATOM	18255	N3	G	A	876	145.984	118.400	-31.504	1.00	65.09	A16S
ATOM	18256	C2	G	A	876	146.370	118.054	-32.712	1.00	65.09	A16S
ATOM	18257	N2	G	A	876	145.524	118.163	-33.729	1.00	65.09	A16S
ATOM	18258	N1	G	A	876	147.618	117.580	-33.013	1.00	65.09	A16S
ATOM	18259	C6	G	A	876	148.650	117.408	-32.097	1.00	65.09	A16S
ATOM	18260	O6	G	A	876	149.742	116.949	-32.469	1.00	65.09	A16S
ATOM	18261	C5	G	A	876	148.259	117.797	-30.800	1.00	65.09	A16S
ATOM	18262	N7	G	A	876	148.974	117.808	-29.614	1.00	65.09	A16S
ATOM	18263	C8	G	A	876	148.121	118.248	-28.729	1.00	65.09	A16S
ATOM	18264	C2*	G	A	876	144.787	117.723	-28.237	1.00	56.02	A16S
ATOM	18265	O2*	G	A	876	143.425	118.098	-28.277	1.00	56.02	A16S
ATOM	18266	C3*	G	A	876	145.279	117.327	-26.850	1.00	56.02	A16S
ATOM	18267	O3*	G	A	876	144.338	116.594	-26.101	1.00	56.02	A16S
ATOM	18268	P	C	A	877	144.408	114.996	-26.115	1.00	58.80	A16S
ATOM	18269	O1P	C	A	877	143.477	114.498	-25.059	1.00	69.22	A16S
ATOM	18270	O2P	C	A	877	145.842	114.582	-26.091	1.00	69.22	A16S
ATOM	18271	O5*	C	A	877	143.825	114.609	-27.542	1.00	58.80	A16S
ATOM	18272	C5*	C	A	877	142.450	114.814	-27.834	1.00	58.80	A16S
ATOM	18273	C4*	C	A	877	142.146	114.294	-29.198	1.00	58.80	A16S
ATOM	18274	O4*	C	A	877	142.839	115.104	-30.172	1.00	58.80	A16S
ATOM	18275	C1*	C	A	877	143.238	114.297	-31.267	1.00	58.80	A16S
ATOM	18276	N1	C	A	877	144.697	114.393	-31.409	1.00	69.22	A16S
ATOM	18277	C6	C	A	877	145.493	114.638	-30.325	1.00	69.22	A16S
ATOM	18278	C2	C	A	877	145.265	114.202	-32.675	1.00	69.22	A16S
ATOM	18279	O2	C	A	877	144.520	114.013	-33.648	1.00	69.22	A16S
ATOM	18280	N3	C	A	877	146.605	114.224	-32.806	1.00	69.22	A16S
ATOM	18281	C4	C	A	877	147.375	114.427	-31.736	1.00	69.22	A16S
ATOM	18282	N4	C	A	877	148.699	114.392	-31.903	1.00	69.22	A16S
ATOM	18283	C5	C	A	877	146.824	114.662	-30.441	1.00	69.22	A16S
ATOM	18284	C2*	C	A	877	142.795	112.861	-30.978	1.00	58.80	A16S
ATOM	18285	O2*	C	A	877	141.579	112.553	-31.630	1.00	58.80	A16S
ATOM	18286	C3*	C	A	877	142.655	112.894	-29.465	1.00	58.80	A16S
ATOM	18287	O3*	C	A	877	141.774	111.904	-29.005	1.00	58.80	A16S
ATOM	18288	P	G	A	878	142.319	110.416	-28.816	1.00	52.88	A16S
ATOM	18289	O1P	G	A	878	141.189	109.618	-28.260	1.00	65.17	A16S
ATOM	18290	O2P	G	A	878	143.603	110.507	-28.065	1.00	65.17	A16S
ATOM	18291	O5*	G	A	878	142.579	109.932	-30.303	1.00	52.88	A16S
ATOM	18292	C5*	G	A	878	141.476	109.749	-31.172	1.00	52.88	A16S
ATOM	18293	C4*	G	A	878	141.938	109.174	-32.471	1.00	52.88	A16S
ATOM	18294	O4*	G	A	878	142.796	110.138	-33.130	1.00	52.88	A16S
ATOM	18295	C1*	G	A	878	143.771	109.452	-33.902	1.00	52.88	A16S
ATOM	18296	N9	G	A	878	145.104	109.892	-33.481	1.00	65.17	A16S
ATOM	18297	C4	G	A	878	146.245	109.887	-34.257	1.00	65.17	A16S
ATOM	18298	N3	G	A	878	146.334	109.468	-35.537	1.00	65.17	A16S
ATOM	18299	C2	G	A	878	147.555	109.596	-36.014	1.00	65.17	A16S
ATOM	18300	N2	G	A	878	147.818	109.220	-37.269	1.00	65.17	A16S
ATOM	18301	N1	G	A	878	148.606	110.098	-35.298	1.00	65.17	A16S
ATOM	18302	C6	G	A	878	148.539	110.534	-33.983	1.00	65.17	A16S
ATOM	18303	O6	G	A	878	149.549	110.977	-33.434	1.00	65.17	A16S
ATOM	18304	C5	G	A	878	147.238	110.398	-33.452	1.00	65.17	A16S
ATOM	18305	N7	G	A	878	146.742	110.711	-32.194	1.00	65.17	A16S
ATOM	18306	C8	G	A	878	145.475	110.394	-32.257	1.00	65.17	A16S
ATOM	18307	C2*	G	A	878	143.525	107.951	-33.725	1.00	52.88	A16S
ATOM	18308	O2*	G	A	878	142.690	107.472	-34.766	1.00	52.88	A16S
ATOM	18309	C3*	G	A	878	142.802	107.927	-32.391	1.00	52.88	A16S
ATOM	18310	O3*	G	A	878	142.080	106.729	-32.177	1.00	52.88	A16S
ATOM	18311	P	C	A	879	142.710	105.615	-31.208	1.00	58.94	A16S
ATOM	18312	O1P	C	A	879	141.650	104.636	-30.824	1.00	56.26	A16S
ATOM	18313	O2P	C	A	879	143.455	106.338	-30.140	1.00	56.26	A16S
ATOM	18314	O5*	C	A	879	143.783	104.898	-32.144	1.00	58.94	A16S
ATOM	18315	C5*	C	A	879	143.343	104.116	-33.268	1.00	58.94	A16S
ATOM	18316	C4*	C	A	879	144.498	103.764	-34.180	1.00	58.94	A16S
ATOM	18317	O4*	C	A	879	144.992	104.954	-34.852	1.00	58.94	A16S
ATOM	18318	C1*	C	A	879	146.381	104.821	-35.081	1.00	58.94	A16S
ATOM	18319	N1	C	A	879	147.108	105.784	-34.235	1.00	56.26	A16S



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ATOM	18320	C6	C	A	879	146.652	106.133	-32.992	1.00	56.26	A16S
ATOM	18321	C2	C	A	879	148.312	106.290	-34.701	1.00	56.26	A16S
ATOM	18322	O2	C	A	879	148.657	106.016	-35.855	1.00	56.26	A16S
ATOM	18323	N3	C	A	879	149.072	107.066	-33.885	1.00	56.26	A16S
ATOM	18324	C4	C	A	879	148.653	107.343	-32.653	1.00	56.26	A16S
ATOM	18325	N4	C	A	879	149.460	108.039	-31.863	1.00	56.26	A16S
ATOM	18326	C5	C	A	879	147.394	106.899	-32.173	1.00	56.26	A16S
ATOM	18327	C2*	C	A	879	146.778	103.421	-34.622	1.00	58.94	A16S
ATOM	18328	O2*	C	A	879	146.631	102.542	-35.704	1.00	58.94	A16S
ATOM	18329	C3*	C	A	879	145.737	103.150	-33.551	1.00	58.94	A16S
ATOM	18330	O3*	C	A	879	145.616	101.767	-33.276	1.00	58.94	A16S
ATOM	18331	P	C	A	880	146.542	101.115	-32.135	1.00	54.74	A16S
ATOM	18332	O1P	C	A	880	146.009	99.770	-31.809	1.00	62.12	A16S
ATOM	18333	O2P	C	A	880	146.720	102.123	-31.065	1.00	62.12	A16S
ATOM	18334	O5*	C	A	880	147.944	100.891	-32.851	1.00	54.74	A16S
ATOM	18335	C5*	C	A	880	147.995	100.189	-34.103	1.00	54.74	A16S
ATOM	18336	C4*	C	A	880	149.373	100.255	-34.709	1.00	54.74	A16S
ATOM	18337	O4*	C	A	880	149.706	101.623	-35.032	1.00	54.74	A16S
ATOM	18338	C1*	C	A	880	151.102	101.806	-34.901	1.00	54.74	A16S
ATOM	18339	N1	C	A	880	151.361	102.789	-33.840	1.00	62.12	A16S
ATOM	18340	C6	C	A	880	150.531	102.897	-32.763	1.00	62.12	A16S
ATOM	18341	C2	C	A	880	152.498	103.596	-33.940	1.00	62.12	A16S
ATOM	18342	O2	C	A	880	153.214	103.506	-34.958	1.00	62.12	A16S
ATOM	18343	N3	C	A	880	152.789	104.450	-32.938	1.00	62.12	A16S
ATOM	18344	C4	C	A	880	151.991	104.517	-31.873	1.00	62.12	A16S
ATOM	18345	N4	C	A	880	152.339	105.331	-30.879	1.00	62.12	A16S
ATOM	18346	C5	C	A	880	150.805	103.739	-31.769	1.00	62.12	A16S
ATOM	18347	C2*	C	A	880	151.707	100.459	-34.526	1.00	54.74	A16S
ATOM	18348	O2*	C	A	880	152.028	99.786	-35.721	1.00	54.74	A16S
ATOM	18349	C3*	C	A	880	150.534	99.780	-33.853	1.00	54.74	A16S
ATOM	18350	O3*	C	A	880	150.687	98.375	-33.888	1.00	54.74	A16S
ATOM	18351	P	G	A	881	151.200	97.617	-32.575	1.00	61.59	A16S
ATOM	18352	O1P	G	A	881	150.902	96.172	-32.788	1.00	58.02	A16S
ATOM	18353	O2P	G	A	881	150.635	98.315	-31.403	1.00	58.02	A16S
ATOM	18354	O5*	G	A	881	152.769	97.906	-32.537	1.00	61.59	A16S
ATOM	18355	C5*	G	A	881	153.598	97.647	-33.682	1.00	61.59	A16S
ATOM	18356	C4*	G	A	881	155.001	98.183	-33.476	1.00	61.59	A16S
ATOM	18357	O4*	G	A	881	155.042	99.628	-33.638	1.00	61.59	A16S
ATOM	18358	C1*	G	A	881	156.041	100.183	-32.787	1.00	61.59	A16S
ATOM	18359	N9	G	A	881	155.394	101.075	-31.820	1.00	58.02	A16S
ATOM	18360	C4	G	A	881	156.011	101.950	-30.950	1.00	58.02	A16S
ATOM	18361	N3	G	A	881	157.335	102.195	-30.868	1.00	58.02	A16S
ATOM	18362	C2	G	A	881	157.611	103.079	-29.911	1.00	58.02	A16S
ATOM	18363	N2	G	A	881	158.868	103.475	-29.696	1.00	58.02	A16S
ATOM	18364	N1	G	A	881	156.672	103.651	-29.093	1.00	58.02	A16S
ATOM	18365	C6	G	A	881	155.310	103.403	-29.153	1.00	58.02	A16S
ATOM	18366	O6	G	A	881	154.548	103.952	-28.347	1.00	58.02	A16S
ATOM	18367	C5	G	A	881	154.992	102.486	-30.189	1.00	58.02	A16S
ATOM	18368	N7	G	A	881	153.762	101.995	-30.595	1.00	58.02	A16S
ATOM	18369	C8	G	A	881	154.045	101.173	-31.567	1.00	58.02	A16S
ATOM	18370	C2*	G	A	881	156.732	99.006	-32.093	1.00	61.59	A16S
ATOM	18371	O2*	G	A	881	157.850	98.616	-32.867	1.00	61.59	A16S
ATOM	18372	C3*	G	A	881	155.642	97.941	-32.124	1.00	61.59	A16S
ATOM	18373	O3*	G	A	881	156.159	96.632	-31.988	1.00	61.59	A16S
ATOM	18374	P	C	A	882	156.114	95.914	-30.546	1.00	55.32	A16S
ATOM	18375	O1P	C	A	882	156.679	94.549	-30.756	1.00	63.42	A16S
ATOM	18376	O2P	C	A	882	154.760	96.064	-29.941	1.00	63.42	A16S
ATOM	18377	O5*	C	A	882	157.123	96.765	-29.653	1.00	55.32	A16S
ATOM	18378	C5*	C	A	882	158.499	96.853	-30.021	1.00	55.32	A16S
ATOM	18379	C4*	C	A	882	159.196	97.944	-29.250	1.00	55.32	A16S
ATOM	18380	O4*	C	A	882	158.560	99.229	-29.495	1.00	55.32	A16S
ATOM	18381	C1*	C	A	882	158.659	100.028	-28.326	1.00	55.32	A16S
ATOM	18382	N1	C	A	882	157.300	100.334	-27.827	1.00	63.42	A16S
ATOM	18383	C6	C	A	882	156.211	99.657	-28.295	1.00	63.42	A16S
ATOM	18384	C2	C	A	882	157.146	101.325	-26.847	1.00	63.42	A16S
ATOM	18385	O2	C	A	882	158.139	101.938	-26.450	1.00	63.42	A16S
ATOM	18386	N3	C	A	882	155.919	101.587	-26.362	1.00	63.42	A16S
ATOM	18387	C4	C	A	882	154.865	100.909	-26.815	1.00	63.42	A16S
ATOM	18388	N4	C	A	882	153.668	101.190	-26.298	1.00	63.42	A16S
ATOM	18389	C5	C	A	882	154.989	99.908	-27.819	1.00	63.42	A16S
ATOM	18390	C2*	C	A	882	159.461	99.230	-27.298	1.00	55.32	A16S
ATOM	18391	O2*	C	A	882	160.822	99.566	-27.450	1.00	55.32	A16S
ATOM	18392	C3*	C	A	882	159.207	97.804	-27.744	1.00	55.32	A16S
ATOM	18393	O3*	C	A	882	160.247	96.955	-27.321	1.00	55.32	A16S
ATOM	18394	P	C	A	883	160.184	96.301	-25.850	1.00	64.85	A16S
ATOM	18395	O1P	C	A	883	161.211	95.223	-25.771	1.00	65.90	A16S
ATOM	18396	O2P	C	A	883	158.769	95.979	-25.547	1.00	65.90	A16S



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ATOM	18397	O5*	C	A	883	160.622	97.482	-24.871	1.00	64.85	A16S
ATOM	18398	C5*	C	A	883	161.864	98.201	-25.062	1.00	64.85	A16S
ATOM	18399	C4*	C	A	883	162.103	99.142	-23.905	1.00	64.85	A16S
ATOM	18400	O4*	C	A	883	161.188	100.265	-23.954	1.00	64.85	A16S
ATOM	18401	C1*	C	A	883	160.746	100.579	-22.644	1.00	64.85	A16S
ATOM	18402	N1	C	A	883	159.269	100.518	-22.624	1.00	65.90	A16S
ATOM	18403	C6	C	A	883	158.587	99.733	-23.509	1.00	65.90	A16S
ATOM	18404	C2	C	A	883	158.572	101.304	-21.705	1.00	65.90	A16S
ATOM	18405	O2	C	A	883	159.209	101.976	-20.883	1.00	65.90	A16S
ATOM	18406	N3	C	A	883	157.221	101.316	-21.734	1.00	65.90	A16S
ATOM	18407	C4	C	A	883	156.570	100.577	-22.629	1.00	65.90	A16S
ATOM	18408	N4	C	A	883	155.243	100.656	-22.656	1.00	65.90	A16S
ATOM	18409	C5	C	A	883	157.251	99.735	-23.546	1.00	65.90	A16S
ATOM	18410	C2*	C	A	883	161.470	99.653	-21.662	1.00	64.85	A16S
ATOM	18411	O2*	C	A	883	162.616	100.313	-21.186	1.00	64.85	A16S
ATOM	18412	C3*	C	A	883	161.864	98.490	-22.560	1.00	64.85	A16S
ATOM	18413	O3*	C	A	883	163.063	97.874	-22.151	1.00	64.85	A16S
ATOM	18414	P	U	A	884	162.998	96.549	-21.258	1.00	61.29	A16S
ATOM	18415	O1P	U	A	884	164.405	96.095	-21.068	1.00	72.93	A16S
ATOM	18416	O2P	U	A	884	161.975	95.615	-21.822	1.00	72.93	A16S
ATOM	18417	O5*	U	A	884	162.483	97.097	-19.863	1.00	61.29	A16S
ATOM	18418	C5*	U	A	884	163.189	98.148	-19.214	1.00	61.29	A16S
ATOM	18419	C4*	U	A	884	162.517	98.490	-17.926	1.00	61.29	A16S
ATOM	18420	O4*	U	A	884	161.276	99.202	-18.181	1.00	61.29	A16S
ATOM	18421	C1*	U	A	884	160.251	98.615	-17.424	1.00	61.29	A16S
ATOM	18422	N1	U	A	884	158.961	98.870	-18.081	1.00	72.93	A16S
ATOM	18423	C6	U	A	884	158.541	98.156	-19.173	1.00	72.93	A16S
ATOM	18424	C2	U	A	884	158.173	99.870	-17.548	1.00	72.93	A16S
ATOM	18425	O2	U	A	884	158.522	100.544	-16.595	1.00	72.93	A16S
ATOM	18426	N3	U	A	884	156.965	100.060	-18.172	1.00	72.93	A16S
ATOM	18427	C4	U	A	884	156.475	99.368	-19.255	1.00	72.93	A16S
ATOM	18428	O4	U	A	884	155.320	99.570	-19.631	1.00	72.93	A16S
ATOM	18429	C5	U	A	884	157.357	98.368	-19.765	1.00	72.93	A16S
ATOM	18430	C2*	U	A	884	160.664	97.159	-17.228	1.00	61.29	A16S
ATOM	18431	O2*	U	A	884	159.993	96.621	-16.107	1.00	61.29	A16S
ATOM	18432	C3*	U	A	884	162.177	97.296	-17.047	1.00	61.29	A16S
ATOM	18433	O3*	U	A	884	162.504	97.640	-15.712	1.00	61.29	A16S
ATOM	18434	P	G	A	885	163.585	96.769	-14.901	1.00	62.69	A16S
ATOM	18435	O1P	G	A	885	163.518	95.356	-15.379	1.00	65.74	A16S
ATOM	18436	O2P	G	A	885	163.352	97.082	-13.466	1.00	65.74	A16S
ATOM	18437	O5*	G	A	885	165.017	97.348	-15.297	1.00	62.69	A16S
ATOM	18438	C5*	G	A	885	165.251	98.761	-15.366	1.00	62.69	A16S
ATOM	18439	C4*	G	A	885	166.642	99.102	-14.881	1.00	62.69	A16S
ATOM	18440	O4*	G	A	885	166.743	98.923	-13.441	1.00	62.69	A16S
ATOM	18441	C1*	G	A	885	168.074	98.550	-13.094	1.00	62.69	A16S
ATOM	18442	N9	G	A	885	168.051	97.209	-12.512	1.00	65.74	A16S
ATOM	18443	C4	G	A	885	169.075	96.587	-11.830	1.00	65.74	A16S
ATOM	18444	N3	G	A	885	170.278	97.124	-11.542	1.00	65.74	A16S
ATOM	18445	C2	G	A	885	171.058	96.266	-10.906	1.00	65.74	A16S
ATOM	18446	N2	G	A	885	172.285	96.630	-10.551	1.00	65.74	A16S
ATOM	18447	N1	G	A	885	170.688	94.985	-10.574	1.00	65.74	A16S
ATOM	18448	C6	G	A	885	169.457	94.410	-10.863	1.00	65.74	A16S
ATOM	18449	O6	G	A	885	169.228	93.241	-10.533	1.00	65.74	A16S
ATOM	18450	C5	G	A	885	168.609	95.319	-11.544	1.00	65.74	A16S
ATOM	18451	N7	G	A	885	167.315	95.154	-12.014	1.00	65.74	A16S
ATOM	18452	C8	G	A	885	167.022	96.299	-12.571	1.00	65.74	A16S
ATOM	18453	C2*	G	A	885	168.885	98.536	-14.388	1.00	62.69	A16S
ATOM	18454	O2*	G	A	885	169.515	99.793	-14.580	1.00	62.69	A16S
ATOM	18455	C3*	G	A	885	167.796	98.276	-15.421	1.00	62.69	A16S
ATOM	18456	O3*	G	A	885	168.211	98.638	-16.720	1.00	62.69	A16S
ATOM	18457	P	G	A	886	169.008	97.562	-17.607	1.00	59.10	A16S
ATOM	18458	O1P	G	A	886	169.231	98.213	-18.921	1.00	61.07	A16S
ATOM	18459	O2P	G	A	886	168.312	96.246	-17.533	1.00	61.07	A16S
ATOM	18460	O5*	G	A	886	170.421	97.396	-16.889	1.00	59.10	A16S
ATOM	18461	C5*	G	A	886	171.385	98.454	-16.937	1.00	59.10	A16S
ATOM	18462	C4*	G	A	886	172.713	97.995	-16.383	1.00	59.10	A16S
ATOM	18463	O4*	G	A	886	172.597	97.713	-14.964	1.00	59.10	A16S
ATOM	18464	C1*	G	A	886	173.511	96.695	-14.605	1.00	59.10	A16S
ATOM	18465	N9	G	A	886	172.764	95.565	-14.060	1.00	61.07	A16S
ATOM	18466	C4	G	A	886	173.303	94.485	-13.429	1.00	61.07	A16S
ATOM	18467	N3	G	A	886	174.608	94.301	-13.178	1.00	61.07	A16S
ATOM	18468	C2	G	A	886	174.829	93.170	-12.553	1.00	61.07	A16S
ATOM	18469	N2	G	A	886	176.080	92.861	-12.186	1.00	61.07	A16S
ATOM	18470	N1	G	A	886	173.840	92.268	-12.229	1.00	61.07	A16S
ATOM	18471	C6	G	A	886	172.485	92.439	-12.491	1.00	61.07	A16S
ATOM	18472	O6	G	A	886	171.669	91.558	-12.168	1.00	61.07	A16S
ATOM	18473	C5	G	A	886	172.240	93.662	-13.129	1.00	61.07	A16S



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ATOM	18474	N7	G	A	886	171.052	94.227	-13.540	1.00	61.07	A16S
ATOM	18475	C8	G	A	886	171.410	95.358	-14.087	1.00	61.07	A16S
ATOM	18476	C2*	G	A	886	174.281	96.311	-15.865	1.00	59.10	A16S
ATOM	18477	O2*	G	A	886	175.478	97.067	-15.926	1.00	59.10	A16S
ATOM	18478	C3*	G	A	886	173.296	96.716	-16.947	1.00	59.10	A16S
ATOM	18479	O3*	G	A	886	173.910	96.893	-18.207	1.00	59.10	A16S
ATOM	18480	P	G	A	887	173.785	95.720	-19.297	1.00	76.30	A16S
ATOM	18481	O1P	G	A	887	174.422	96.210	-20.561	1.00	65.37	A16S
ATOM	18482	O2P	G	A	887	172.360	95.291	-19.314	1.00	65.37	A16S
ATOM	18483	O5*	G	A	887	174.630	94.526	-18.651	1.00	76.30	A16S
ATOM	18484	C5*	G	A	887	176.008	94.732	-18.296	1.00	76.30	A16S
ATOM	18485	C4*	G	A	887	176.566	93.562	-17.509	1.00	76.30	A16S
ATOM	18486	O4*	G	A	887	175.897	93.435	-16.226	1.00	76.30	A16S
ATOM	18487	C1*	G	A	887	175.959	92.082	-15.798	1.00	76.30	A16S
ATOM	18488	N9	G	A	887	174.608	91.564	-15.609	1.00	65.37	A16S
ATOM	18489	C4	G	A	887	174.305	90.364	-15.035	1.00	65.37	A16S
ATOM	18490	N3	G	A	887	175.196	89.486	-14.552	1.00	65.37	A16S
ATOM	18491	C2	G	A	887	174.609	88.406	-14.085	1.00	65.37	A16S
ATOM	18492	N2	G	A	887	175.349	87.411	-13.590	1.00	65.37	A16S
ATOM	18493	N1	G	A	887	173.257	88.213	-14.073	1.00	65.37	A16S
ATOM	18494	C6	G	A	887	172.320	89.111	-14.560	1.00	65.37	A16S
ATOM	18495	O6	G	A	887	171.116	88.839	-14.495	1.00	65.37	A16S
ATOM	18496	C5	G	A	887	172.934	90.265	-15.083	1.00	65.37	A16S
ATOM	18497	N7	G	A	887	172.379	91.387	-15.679	1.00	65.37	A16S
ATOM	18498	C8	G	A	887	173.410	92.135	-15.972	1.00	65.37	A16S
ATOM	18499	C2*	G	A	887	176.677	91.279	-16.881	1.00	76.30	A16S
ATOM	18500	O2*	G	A	887	178.034	91.091	-16.517	1.00	76.30	A16S
ATOM	18501	C3*	G	A	887	176.475	92.166	-18.106	1.00	76.30	A16S
ATOM	18502	O3*	G	A	887	177.450	91.903	-19.102	1.00	76.30	A16S
ATOM	18503	P	G	A	888	177.069	90.948	-20.339	1.00	63.12	A16S
ATOM	18504	O1P	G	A	888	178.322	90.732	-21.124	1.00	66.23	A16S
ATOM	18505	O2P	G	A	888	175.875	91.527	-21.021	1.00	66.23	A16S
ATOM	18506	O5*	G	A	888	176.622	89.575	-19.642	1.00	63.12	A16S
ATOM	18507	C5*	G	A	888	177.582	88.752	-18.935	1.00	63.12	A16S
ATOM	18508	C4*	G	A	888	176.934	87.490	-18.419	1.00	63.12	A16S
ATOM	18509	O4*	G	A	888	175.974	87.830	-17.396	1.00	63.12	A16S
ATOM	18510	C1*	G	A	888	174.823	87.009	-17.520	1.00	63.12	A16S
ATOM	18511	N9	G	A	888	173.701	87.882	-17.877	1.00	66.23	A16S
ATOM	18512	C4	G	A	888	172.358	87.657	-17.661	1.00	66.23	A16S
ATOM	18513	N3	G	A	888	171.813	86.570	-17.078	1.00	66.23	A16S
ATOM	18514	C2	G	A	888	170.494	86.647	-17.026	1.00	66.23	A16S
ATOM	18515	N2	G	A	888	169.792	85.648	-16.499	1.00	66.23	A16S
ATOM	18516	N1	G	A	888	169.770	87.707	-17.492	1.00	66.23	A16S
ATOM	18517	C6	G	A	888	170.314	88.841	-18.088	1.00	66.23	A16S
ATOM	18518	O6	G	A	888	169.573	89.757	-18.473	1.00	66.23	A16S
ATOM	18519	C5	G	A	888	171.719	88.767	-18.163	1.00	66.23	A16S
ATOM	18520	N7	G	A	888	172.630	89.668	-18.684	1.00	66.23	A16S
ATOM	18521	C8	G	A	888	173.789	89.104	-18.496	1.00	66.23	A16S
ATOM	18522	C2*	G	A	888	175.138	85.950	-18.579	1.00	63.12	A16S
ATOM	18523	O2*	G	A	888	175.701	84.809	-17.956	1.00	63.12	A16S
ATOM	18524	C3*	G	A	888	176.158	86.680	-19.441	1.00	63.12	A16S
ATOM	18525	O3*	G	A	888	177.016	85.774	-20.100	1.00	63.12	A16S
ATOM	18526	P	A	A	889	176.627	85.220	-21.552	1.00	79.42	A16S
ATOM	18527	O1P	A	A	889	175.519	84.233	-21.405	1.00	65.99	A16S
ATOM	18528	O2P	A	A	889	177.901	84.808	-22.201	1.00	65.99	A16S
ATOM	18529	O5*	A	A	889	176.078	86.504	-22.305	1.00	79.42	A16S
ATOM	18530	C5*	A	A	889	176.167	86.611	-23.727	1.00	79.42	A16S
ATOM	18531	C4*	A	A	889	175.157	87.605	-24.219	1.00	79.42	A16S
ATOM	18532	O4*	A	A	889	173.847	87.116	-23.864	1.00	79.42	A16S
ATOM	18533	C1*	A	A	889	173.167	88.098	-23.118	1.00	79.42	A16S
ATOM	18534	N9	A	A	889	172.247	87.425	-22.210	1.00	65.99	A16S
ATOM	18535	C4	A	A	889	170.916	87.722	-22.109	1.00	65.99	A16S
ATOM	18536	N3	A	A	889	170.260	88.698	-22.750	1.00	65.99	A16S
ATOM	18537	C2	A	A	889	168.974	88.672	-22.439	1.00	65.99	A16S
ATOM	18538	N1	A	A	889	168.316	87.841	-21.623	1.00	65.99	A16S
ATOM	18539	C6	A	A	889	169.007	86.866	-20.998	1.00	65.99	A16S
ATOM	18540	N6	A	A	889	168.344	86.029	-20.198	1.00	65.99	A16S
ATOM	18541	C5	A	A	889	170.387	86.794	-21.239	1.00	65.99	A16S
ATOM	18542	N7	A	A	889	171.377	85.946	-20.766	1.00	65.99	A16S
ATOM	18543	C8	A	A	889	172.463	86.373	-21.360	1.00	65.99	A16S
ATOM	18544	C2*	A	A	889	174.229	89.012	-22.519	1.00	79.42	A16S
ATOM	18545	O2*	A	A	889	173.689	90.309	-22.356	1.00	79.42	A16S
ATOM	18546	C3*	A	A	889	175.264	89.012	-23.635	1.00	79.42	A16S
ATOM	18547	O3*	A	A	889	174.772	89.904	-24.614	1.00	79.42	A16S
ATOM	18548	P	G	A	890	175.782	90.654	-25.591	1.00	83.62	A16S
ATOM	18549	O1P	G	A	890	176.650	89.617	-26.214	1.00	89.47	A16S
ATOM	18550	O2P	G	A	890	176.390	91.767	-24.827	1.00	89.47	A16S



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ATOM	18551	O5*	G	A 890	174.824	91.262	-26.709	1.00	83.62	A16S
ATOM	18552	C5*	G	A 890	174.638	90.594	-27.980	1.00	83.62	A16S
ATOM	18553	C4*	G	A 890	173.591	89.502	-27.864	1.00	83.62	A16S
ATOM	18554	O4*	G	A 890	172.313	90.044	-27.411	1.00	83.62	A16S
ATOM	18555	C1*	G	A 890	171.299	89.597	-28.281	1.00	83.62	A16S
ATOM	18556	N9	G	A 890	170.155	90.494	-28.195	1.00	89.47	A16S
ATOM	18557	C4	G	A 890	168.989	90.246	-27.505	1.00	89.47	A16S
ATOM	18558	N3	G	A 890	168.700	89.126	-26.805	1.00	89.47	A16S
ATOM	18559	C2	G	A 890	167.501	89.184	-26.244	1.00	89.47	A16S
ATOM	18560	N2	G	A 890	167.042	88.148	-25.527	1.00	89.47	A16S
ATOM	18561	N1	G	A 890	166.660	90.261	-26.350	1.00	89.47	A16S
ATOM	18562	C6	G	A 890	166.932	91.424	-27.064	1.00	89.47	A16S
ATOM	18563	O6	G	A 890	166.092	92.342	-27.097	1.00	89.47	A16S
ATOM	18564	C5	G	A 890	168.215	91.368	-27.683	1.00	89.47	A16S
ATOM	18565	N7	G	A 890	168.871	92.295	-28.480	1.00	89.47	A16S
ATOM	18566	C8	G	A 890	170.016	91.732	-28.760	1.00	89.47	A16S
ATOM	18567	C2*	G	A 890	171.996	89.417	-29.626	1.00	83.62	A16S
ATOM	18568	O2*	G	A 890	171.253	88.614	-30.512	1.00	83.62	A16S
ATOM	18569	C3*	G	A 890	173.289	88.757	-29.162	1.00	83.62	A16S
ATOM	18570	O3*	G	A 890	173.001	87.411	-28.783	1.00	83.62	A16S
ATOM	18571	P	U	A 891	173.188	86.200	-29.825	1.00	76.51	A16S
ATOM	18572	O1P	U	A 891	174.315	86.573	-30.734	1.00	73.21	A16S
ATOM	18573	O2P	U	A 891	171.863	85.823	-30.410	1.00	73.21	A16S
ATOM	18574	O5*	U	A 891	173.632	85.000	-28.868	1.00	76.51	A16S
ATOM	18575	C5*	U	A 891	174.971	84.933	-28.347	1.00	76.51	A16S
ATOM	18576	C4*	U	A 891	174.986	84.245	-27.006	1.00	76.51	A16S
ATOM	18577	O4*	U	A 891	174.490	85.141	-25.982	1.00	76.51	A16S
ATOM	18578	C1*	U	A 891	173.782	84.400	-25.000	1.00	76.51	A16S
ATOM	18579	N1	U	A 891	172.399	84.910	-24.927	1.00	73.21	A16S
ATOM	18580	C6	U	A 891	171.939	85.874	-25.797	1.00	73.21	A16S
ATOM	18581	C2	U	A 891	171.558	84.376	-23.957	1.00	73.21	A16S
ATOM	18582	O2	U	A 891	171.920	83.532	-23.144	1.00	73.21	A16S
ATOM	18583	N3	U	A 891	170.276	84.864	-23.974	1.00	73.21	A16S
ATOM	18584	C4	U	A 891	169.752	85.804	-24.827	1.00	73.21	A16S
ATOM	18585	O4	U	A 891	168.543	86.041	-24.791	1.00	73.21	A16S
ATOM	18586	C5	U	A 891	170.682	86.327	-25.777	1.00	73.21	A16S
ATOM	18587	C2*	U	A 891	173.856	82.916	-25.386	1.00	76.51	A16S
ATOM	18588	O2*	U	A 891	174.852	82.275	-24.611	1.00	76.51	A16S
ATOM	18589	C3*	U	A 891	174.138	82.992	-26.889	1.00	76.51	A16S
ATOM	18590	O3*	U	A 891	174.819	81.848	-27.399	1.00	76.51	A16S
ATOM	18591	P	A	A 892	174.001	80.725	-28.219	1.00	74.15	A16S
ATOM	18592	O1P	A	A 892	174.991	79.767	-28.777	1.00	63.04	A16S
ATOM	18593	O2P	A	A 892	173.063	81.419	-29.143	1.00	63.04	A16S
ATOM	18594	O5*	A	A 892	173.178	79.953	-27.095	1.00	74.15	A16S
ATOM	18595	C5*	A	A 892	173.870	79.276	-26.034	1.00	74.15	A16S
ATOM	18596	C4*	A	A 892	172.890	78.594	-25.109	1.00	74.15	A16S
ATOM	18597	O4*	A	A 892	172.204	79.579	-24.303	1.00	74.15	A16S
ATOM	18598	C1*	A	A 892	170.867	79.163	-24.078	1.00	74.15	A16S
ATOM	18599	N9	A	A 892	169.982	80.199	-24.614	1.00	63.04	A16S
ATOM	18600	C4	A	A 892	168.644	80.337	-24.364	1.00	63.04	A16S
ATOM	18601	N3	A	A 892	167.874	79.539	-23.611	1.00	63.04	A16S
ATOM	18602	C2	A	A 892	166.623	79.997	-23.582	1.00	63.04	A16S
ATOM	18603	N1	A	A 892	166.097	81.088	-24.171	1.00	63.04	A16S
ATOM	18604	C6	A	A 892	166.909	81.867	-24.918	1.00	63.04	A16S
ATOM	18605	N6	A	A 892	166.401	82.960	-25.497	1.00	63.04	A16S
ATOM	18606	C5	A	A 892	168.251	81.480	-25.038	1.00	63.04	A16S
ATOM	18607	N7	A	A 892	169.316	82.036	-25.723	1.00	63.04	A16S
ATOM	18608	C8	A	A 892	170.316	81.241	-25.443	1.00	63.04	A16S
ATOM	18609	C2*	A	A 892	170.684	77.791	-24.731	1.00	74.15	A16S
ATOM	18610	O2*	A	A 892	170.878	76.761	-23.784	1.00	74.15	A16S
ATOM	18611	C3*	A	A 892	171.784	77.803	-25.782	1.00	74.15	A16S
ATOM	18612	O3*	A	A 892	172.200	76.497	-26.136	1.00	74.15	A16S
ATOM	18613	P	C	A 893	171.738	75.883	-27.544	1.00	69.13	A16S
ATOM	18614	O1P	C	A 893	172.550	74.662	-27.753	1.00	73.90	A16S
ATOM	18615	O2P	C	A 893	171.747	76.964	-28.573	1.00	73.90	A16S
ATOM	18616	O5*	C	A 893	170.233	75.460	-27.278	1.00	69.13	A16S
ATOM	18617	C5*	C	A 893	169.891	74.713	-26.112	1.00	69.13	A16S
ATOM	18618	C4*	C	A 893	168.419	74.826	-25.845	1.00	69.13	A16S
ATOM	18619	O4*	C	A 893	168.091	76.136	-25.313	1.00	69.13	A16S
ATOM	18620	C1*	C	A 893	166.797	76.512	-25.747	1.00	69.13	A16S
ATOM	18621	N1	C	A 893	166.876	77.822	-26.419	1.00	73.90	A16S
ATOM	18622	C6	C	A 893	168.033	78.235	-27.017	1.00	73.90	A16S
ATOM	18623	C2	C	A 893	165.731	78.656	-26.437	1.00	73.90	A16S
ATOM	18624	O2	C	A 893	164.679	78.269	-25.876	1.00	73.90	A16S
ATOM	18625	N3	C	A 893	165.805	79.858	-27.057	1.00	73.90	A16S
ATOM	18626	C4	C	A 893	166.949	80.246	-27.625	1.00	73.90	A16S
ATOM	18627	N4	C	A 893	166.984	81.445	-28.195	1.00	73.90	A16S



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ATOM	18628	C5	C	A	893	168.112	79.425	-27.624	1.00	73.90	A16S
ATOM	18629	C2*	C	A	893	166.259	75.390	-26.638	1.00	69.13	A16S
ATOM	18630	O2*	C	A	893	165.443	74.550	-25.849	1.00	69.13	A16S
ATOM	18631	C3*	C	A	893	167.542	74.690	-27.072	1.00	69.13	A16S
ATOM	18632	O3*	C	A	893	167.364	73.323	-27.430	1.00	69.13	A16S
ATOM	18633	P	G	A	894	167.193	72.922	-28.986	1.00	73.71	A16S
ATOM	18634	O1P	G	A	894	167.238	71.433	-29.007	1.00	61.86	A16S
ATOM	18635	O2P	G	A	894	168.123	73.703	-29.859	1.00	61.86	A16S
ATOM	18636	O5*	G	A	894	165.723	73.419	-29.346	1.00	73.71	A16S
ATOM	18637	C5*	G	A	894	164.586	72.866	-28.677	1.00	73.71	A16S
ATOM	18638	C4*	G	A	894	163.361	73.657	-29.014	1.00	73.71	A16S
ATOM	18639	O4*	G	A	894	163.434	74.968	-28.401	1.00	73.71	A16S
ATOM	18640	C1*	G	A	894	162.790	75.918	-29.237	1.00	73.71	A16S
ATOM	18641	N9	G	A	894	163.743	76.974	-29.582	1.00	61.86	A16S
ATOM	18642	C4	G	A	894	163.437	78.233	-30.072	1.00	61.86	A16S
ATOM	18643	N3	G	A	894	162.198	78.715	-30.320	1.00	61.86	A16S
ATOM	18644	C2	G	A	894	162.235	79.948	-30.792	1.00	61.86	A16S
ATOM	18645	N2	G	A	894	161.101	80.573	-31.115	1.00	61.86	A16S
ATOM	18646	N1	G	A	894	163.386	80.661	-30.989	1.00	61.86	A16S
ATOM	18647	C6	G	A	894	164.669	80.194	-30.733	1.00	61.86	A16S
ATOM	18648	O6	G	A	894	165.643	80.928	-30.936	1.00	61.86	A16S
ATOM	18649	C5	G	A	894	164.652	78.865	-30.241	1.00	61.86	A16S
ATOM	18650	N7	G	A	894	165.698	78.031	-29.869	1.00	61.86	A16S
ATOM	18651	C8	G	A	894	165.114	76.923	-29.486	1.00	61.86	A16S
ATOM	18652	C2*	G	A	894	162.267	75.169	-30.463	1.00	73.71	A16S
ATOM	18653	O2*	G	A	894	160.925	74.787	-30.243	1.00	73.71	A16S
ATOM	18654	C3*	G	A	894	163.181	73.958	-30.485	1.00	73.71	A16S
ATOM	18655	O3*	G	A	894	162.611	72.887	-31.189	1.00	73.71	A16S
ATOM	18656	P	G	A	895	162.848	72.788	-32.772	1.00	73.38	A16S
ATOM	18657	O1P	G	A	895	162.213	71.518	-33.232	1.00	66.28	A16S
ATOM	18658	O2P	G	A	895	164.292	73.032	-33.058	1.00	66.28	A16S
ATOM	18659	O5*	G	A	895	162.027	74.025	-33.359	1.00	73.38	A16S
ATOM	18660	C5*	G	A	895	160.591	74.030	-33.344	1.00	73.38	A16S
ATOM	18661	C4*	G	A	895	160.069	75.344	-33.860	1.00	73.38	A16S
ATOM	18662	O4*	G	A	895	160.594	76.416	-33.042	1.00	73.38	A16S
ATOM	18663	C1*	G	A	895	160.796	77.573	-33.837	1.00	73.38	A16S
ATOM	18664	N9	G	A	895	162.203	77.955	-33.769	1.00	66.28	A16S
ATOM	18665	C4	G	A	895	162.724	79.178	-34.107	1.00	66.28	A16S
ATOM	18666	N3	G	A	895	162.025	80.241	-34.542	1.00	66.28	A16S
ATOM	18667	C2	G	A	895	162.810	81.279	-34.773	1.00	66.28	A16S
ATOM	18668	N2	G	A	895	162.287	82.434	-35.191	1.00	66.28	A16S
ATOM	18669	N1	G	A	895	164.165	81.264	-34.609	1.00	66.28	A16S
ATOM	18670	C6	G	A	895	164.900	80.174	-34.174	1.00	66.28	A16S
ATOM	18671	O6	G	A	895	166.117	80.258	-34.080	1.00	66.28	A16S
ATOM	18672	C5	G	A	895	164.081	79.068	-33.902	1.00	66.28	A16S
ATOM	18673	N7	G	A	895	164.410	77.806	-33.432	1.00	66.28	A16S
ATOM	18674	C8	G	A	895	163.267	77.178	-33.370	1.00	66.28	A16S
ATOM	18675	C2*	G	A	895	160.391	77.231	-35.266	1.00	73.38	A16S
ATOM	18676	O2*	G	A	895	159.080	77.672	-35.516	1.00	73.38	A16S
ATOM	18677	C3*	G	A	895	160.499	75.718	-35.262	1.00	73.38	A16S
ATOM	18678	O3*	G	A	895	159.675	75.160	-36.259	1.00	73.38	A16S
ATOM	18679	P	C	A	896	160.310	74.839	-37.696	1.00	81.46	A16S
ATOM	18680	O1P	C	A	896	159.346	73.964	-38.443	1.00	64.58	A16S
ATOM	18681	O2P	C	A	896	161.694	74.347	-37.425	1.00	64.58	A16S
ATOM	18682	O5*	C	A	896	160.402	76.265	-38.408	1.00	81.46	A16S
ATOM	18683	C5*	C	A	896	159.210	77.013	-38.664	1.00	81.46	A16S
ATOM	18684	C4*	C	A	896	159.530	78.416	-39.129	1.00	81.46	A16S
ATOM	18685	O4*	C	A	896	160.096	79.201	-38.047	1.00	81.46	A16S
ATOM	18686	C1*	C	A	896	161.031	80.127	-38.574	1.00	81.46	A16S
ATOM	18687	N1	C	A	896	162.378	79.753	-38.108	1.00	64.58	A16S
ATOM	18688	C6	C	A	896	162.651	78.481	-37.690	1.00	64.58	A16S
ATOM	18689	C2	C	A	896	163.387	80.721	-38.127	1.00	64.58	A16S
ATOM	18690	O2	C	A	896	163.103	81.885	-38.488	1.00	64.58	A16S
ATOM	18691	N3	C	A	896	164.640	80.368	-37.756	1.00	64.58	A16S
ATOM	18692	C4	C	A	896	164.891	79.119	-37.369	1.00	64.58	A16S
ATOM	18693	N4	C	A	896	166.129	78.812	-37.027	1.00	64.58	A16S
ATOM	18694	C5	C	A	896	163.879	78.127	-37.319	1.00	64.58	A16S
ATOM	18695	C2*	C	A	896	160.978	80.008	-40.094	1.00	81.46	A16S
ATOM	18696	O2*	C	A	896	160.041	80.940	-40.589	1.00	81.46	A16S
ATOM	18697	C3*	C	A	896	160.525	78.567	-40.264	1.00	81.46	A16S
ATOM	18698	O3*	C	A	896	159.955	78.333	-41.535	1.00	81.46	A16S
ATOM	18699	P	C	A	897	160.854	77.660	-42.680	1.00	81.57	A16S
ATOM	18700	O1P	C	A	897	159.980	77.414	-43.853	1.00	63.98	A16S
ATOM	18701	O2P	C	A	897	161.608	76.535	-42.079	1.00	63.98	A16S
ATOM	18702	O5*	C	A	897	161.863	78.822	-43.078	1.00	81.57	A16S
ATOM	18703	C5*	C	A	897	161.350	80.044	-43.619	1.00	81.57	A16S
ATOM	18704	C4*	C	A	897	162.454	81.049	-43.827	1.00	81.57	A16S



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ATOM	18705	O4*	C	A	897	162.978	81.494	-42.550	1.00	81.57	A16S
ATOM	18706	C1*	C	A	897	164.340	81.852	-42.701	1.00	81.57	A16S
ATOM	18707	N1	C	A	897	165.161	81.022	-41.804	1.00	63.98	A16S
ATOM	18708	C6	C	A	897	164.744	79.790	-41.394	1.00	63.98	A16S
ATOM	18709	C2	C	A	897	166.403	81.509	-41.405	1.00	63.98	A16S
ATOM	18710	O2	C	A	897	166.731	82.656	-41.744	1.00	63.98	A16S
ATOM	18711	N3	C	A	897	167.217	80.729	-40.661	1.00	63.98	A16S
ATOM	18712	C4	C	A	897	166.821	79.514	-40.305	1.00	63.98	A16S
ATOM	18713	N4	C	A	897	167.670	78.764	-39.627	1.00	63.98	A16S
ATOM	18714	C5	C	A	897	165.537	79.009	-40.647	1.00	63.98	A16S
ATOM	18715	C2*	C	A	897	164.722	81.609	-44.161	1.00	81.57	A16S
ATOM	18716	O2*	C	A	897	164.592	82.800	-44.914	1.00	81.57	A16S
ATOM	18717	C3*	C	A	897	163.684	80.581	-44.576	1.00	81.57	A16S
ATOM	18718	O3*	C	A	897	163.527	80.526	-45.980	1.00	81.57	A16S
ATOM	18719	P	G	A	898	164.307	79.379	-46.798	1.00	65.64	A16S
ATOM	18720	O1P	G	A	898	163.901	79.482	-48.225	1.00	70.83	A16S
ATOM	18721	O2P	G	A	898	164.150	78.085	-46.067	1.00	70.83	A16S
ATOM	18722	O5*	G	A	898	165.840	79.790	-46.669	1.00	65.64	A16S
ATOM	18723	C5*	G	A	898	166.306	81.021	-47.232	1.00	65.64	A16S
ATOM	18724	C4*	G	A	898	167.778	81.194	-46.971	1.00	65.64	A16S
ATOM	18725	O4*	G	A	898	168.011	81.483	-45.573	1.00	65.64	A16S
ATOM	18726	C1*	G	A	898	169.279	80.993	-45.198	1.00	65.64	A16S
ATOM	18727	N9	G	A	898	169.102	80.008	-44.151	1.00	70.83	A16S
ATOM	18728	C4	G	A	898	170.099	79.466	-43.391	1.00	70.83	A16S
ATOM	18729	N3	G	A	898	171.394	79.839	-43.406	1.00	70.83	A16S
ATOM	18730	C2	G	A	898	172.128	79.086	-42.609	1.00	70.83	A16S
ATOM	18731	N2	G	A	898	173.436	79.334	-42.469	1.00	70.83	A16S
ATOM	18732	N1	G	A	898	171.632	78.037	-41.885	1.00	70.83	A16S
ATOM	18733	C6	G	A	898	170.301	77.631	-41.877	1.00	70.83	A16S
ATOM	18734	O6	G	A	898	169.963	76.635	-41.232	1.00	70.83	A16S
ATOM	18735	C5	G	A	898	169.504	78.455	-42.680	1.00	70.83	A16S
ATOM	18736	N7	G	A	898	168.141	78.421	-42.918	1.00	70.83	A16S
ATOM	18737	C8	G	A	898	167.945	79.373	-43.787	1.00	70.83	A16S
ATOM	18738	C2*	G	A	898	169.888	80.304	-46.415	1.00	65.64	A16S
ATOM	18739	O2*	G	A	898	170.776	81.196	-47.040	1.00	65.64	A16S
ATOM	18740	C3*	G	A	898	168.656	79.994	-47.251	1.00	65.64	A16S
ATOM	18741	O3*	G	A	898	168.937	79.865	-48.639	1.00	65.64	A16S
ATOM	18742	P	C	A	899	168.886	78.408	-49.327	1.00	69.06	A16S
ATOM	18743	O1P	C	A	899	167.659	77.698	-48.856	1.00	68.62	A16S
ATOM	18744	O2P	C	A	899	169.118	78.601	-50.786	1.00	68.62	A16S
ATOM	18745	O5*	C	A	899	170.130	77.641	-48.692	1.00	69.06	A16S
ATOM	18746	C5*	C	A	899	170.457	76.292	-49.067	1.00	69.06	A16S
ATOM	18747	C4*	C	A	899	171.956	76.131	-49.142	1.00	69.06	A16S
ATOM	18748	O4*	C	A	899	172.466	76.880	-50.268	1.00	69.06	A16S
ATOM	18749	C1*	C	A	899	173.709	77.463	-49.929	1.00	69.06	A16S
ATOM	18750	N1	C	A	899	173.621	78.915	-50.148	1.00	68.62	A16S
ATOM	18751	C6	C	A	899	172.411	79.546	-50.183	1.00	68.62	A16S
ATOM	18752	C2	C	A	899	174.791	79.638	-50.333	1.00	68.62	A16S
ATOM	18753	O2	C	A	899	175.880	79.046	-50.265	1.00	68.62	A16S
ATOM	18754	N3	C	A	899	174.714	80.967	-50.574	1.00	68.62	A16S
ATOM	18755	C4	C	A	899	173.527	81.569	-50.620	1.00	68.62	A16S
ATOM	18756	N4	C	A	899	173.496	82.873	-50.870	1.00	68.62	A16S
ATOM	18757	C5	C	A	899	172.319	80.858	-50.414	1.00	68.62	A16S
ATOM	18758	C2*	C	A	899	174.063	77.048	-48.501	1.00	69.06	A16S
ATOM	18759	O2*	C	A	899	174.957	75.958	-48.559	1.00	69.06	A16S
ATOM	18760	C3*	C	A	899	172.703	76.666	-47.935	1.00	69.06	A16S
ATOM	18761	O3*	C	A	899	172.811	75.625	-46.986	1.00	69.06	A16S
ATOM	18762	P	A	A	900	172.726	75.954	-45.418	1.00	65.27	A16S
ATOM	18763	O1P	A	A	900	172.780	74.614	-44.763	1.00	53.00	A16S
ATOM	18764	O2P	A	A	900	171.553	76.834	-45.171	1.00	53.00	A16S
ATOM	18765	O5*	A	A	900	174.087	76.744	-45.122	1.00	65.27	A16S
ATOM	18766	C5*	A	A	900	175.366	76.055	-45.188	1.00	65.27	A16S
ATOM	18767	C4*	A	A	900	176.510	77.038	-45.326	1.00	65.27	A16S
ATOM	18768	O4*	A	A	900	176.330	77.847	-46.517	1.00	65.27	A16S
ATOM	18769	C1*	A	A	900	176.728	79.180	-46.258	1.00	65.27	A16S
ATOM	18770	N9	A	A	900	175.571	80.057	-46.476	1.00	53.00	A16S
ATOM	18771	C4	A	A	900	175.622	81.378	-46.855	1.00	53.00	A16S
ATOM	18772	N3	A	A	900	176.719	82.131	-47.024	1.00	53.00	A16S
ATOM	18773	C2	A	A	900	176.386	83.336	-47.490	1.00	53.00	A16S
ATOM	18774	N1	A	A	900	175.177	83.833	-47.783	1.00	53.00	A16S
ATOM	18775	C6	A	A	900	174.099	83.051	-47.591	1.00	53.00	A16S
ATOM	18776	N6	A	A	900	172.905	83.540	-47.895	1.00	53.00	A16S
ATOM	18777	C5	A	A	900	174.308	81.758	-47.093	1.00	53.00	A16S
ATOM	18778	N7	A	A	900	173.434	80.719	-46.801	1.00	53.00	A16S
ATOM	18779	C8	A	A	900	174.225	79.738	-46.424	1.00	53.00	A16S
ATOM	18780	C2*	A	A	900	177.308	79.221	-44.850	1.00	65.27	A16S
ATOM	18781	O2*	A	A	900	178.698	79.005	-44.927	1.00	65.27	A16S



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ATOM	18782	C3*	A	A	900	176.619	78.036	-44.199	1.00	65.27	A16S
ATOM	18783	O3*	A	A	900	177.394	77.523	-43.143	1.00	65.27	A16S
ATOM	18784	P	A	A	901	177.100	78.032	-41.656	1.00	66.09	A16S
ATOM	18785	O1P	A	A	901	177.927	77.248	-40.706	1.00	62.27	A16S
ATOM	18786	O2P	A	A	901	175.618	78.042	-41.513	1.00	62.27	A16S
ATOM	18787	O5*	A	A	901	177.630	79.536	-41.637	1.00	66.09	A16S
ATOM	18788	C5*	A	A	901	179.041	79.810	-41.674	1.00	66.09	A16S
ATOM	18789	C4*	A	A	901	179.290	81.276	-41.940	1.00	66.09	A16S
ATOM	18790	O4*	A	A	901	178.723	81.631	-43.223	1.00	66.09	A16S
ATOM	18791	C1*	A	A	901	178.180	82.937	-43.166	1.00	66.09	A16S
ATOM	18792	N9	A	A	901	176.739	82.828	-43.397	1.00	62.27	A16S
ATOM	18793	C4	A	A	901	175.921	83.759	-43.980	1.00	62.27	A16S
ATOM	18794	N3	A	A	901	176.277	84.940	-44.500	1.00	62.27	A16S
ATOM	18795	C2	A	A	901	175.199	85.589	-44.956	1.00	62.27	A16S
ATOM	18796	N1	A	A	901	173.908	85.218	-44.931	1.00	62.27	A16S
ATOM	18797	C6	A	A	901	173.593	84.031	-44.380	1.00	62.27	A16S
ATOM	18798	N6	A	A	901	172.313	83.681	-44.301	1.00	62.27	A16S
ATOM	18799	C5	A	A	901	174.639	83.239	-43.898	1.00	62.27	A16S
ATOM	18800	N7	A	A	901	174.653	81.986	-43.313	1.00	62.27	A16S
ATOM	18801	C8	A	A	901	175.919	81.785	-43.039	1.00	62.27	A16S
ATOM	18802	C2*	A	A	901	178.510	83.505	-41.782	1.00	66.09	A16S
ATOM	18803	O2*	A	A	901	179.728	84.221	-41.815	1.00	66.09	A16S
ATOM	18804	C3*	A	A	901	178.656	82.239	-40.958	1.00	66.09	A16S
ATOM	18805	O3*	A	A	901	179.500	82.457	-39.844	1.00	66.09	A16S
ATOM	18806	P	G	A	902	178.927	82.231	-38.357	1.00	67.02	A16S
ATOM	18807	O1P	G	A	902	179.772	83.088	-37.491	1.00	58.35	A16S
ATOM	18808	O2P	G	A	902	178.825	80.763	-38.077	1.00	58.35	A16S
ATOM	18809	O5*	G	A	902	177.442	82.820	-38.403	1.00	67.02	A16S
ATOM	18810	C5*	G	A	902	177.153	84.181	-38.013	1.00	67.02	A16S
ATOM	18811	C4*	G	A	902	176.149	84.804	-38.961	1.00	67.02	A16S
ATOM	18812	O4*	G	A	902	175.806	83.852	-40.001	1.00	67.02	A16S
ATOM	18813	C1*	G	A	902	174.437	83.969	-40.328	1.00	67.02	A16S
ATOM	18814	N9	G	A	902	173.774	82.736	-39.930	1.00	58.35	A16S
ATOM	18815	C4	G	A	902	172.499	82.376	-40.253	1.00	58.35	A16S
ATOM	18816	N3	G	A	902	171.649	83.099	-41.005	1.00	58.35	A16S
ATOM	18817	C2	G	A	902	170.474	82.510	-41.127	1.00	58.35	A16S
ATOM	18818	N2	G	A	902	169.504	83.114	-41.841	1.00	58.35	A16S
ATOM	18819	N1	G	A	902	170.164	81.293	-40.556	1.00	58.35	A16S
ATOM	18820	C6	G	A	902	171.035	80.532	-39.777	1.00	58.35	A16S
ATOM	18821	O6	G	A	902	170.665	79.448	-39.305	1.00	58.35	A16S
ATOM	18822	C5	G	A	902	172.292	81.162	-39.638	1.00	58.35	A16S
ATOM	18823	N7	G	A	902	173.424	80.760	-38.947	1.00	58.35	A16S
ATOM	18824	C8	G	A	902	174.280	81.723	-39.151	1.00	58.35	A16S
ATOM	18825	C2*	G	A	902	173.873	85.158	-39.556	1.00	67.02	A16S
ATOM	18826	O2*	G	A	902	173.931	86.300	-40.389	1.00	67.02	A16S
ATOM	18827	C3*	G	A	902	174.811	85.200	-38.351	1.00	67.02	A16S
ATOM	18828	O3*	G	A	902	174.838	86.462	-37.676	1.00	67.02	A16S
ATOM	18829	P	G	A	903	173.795	86.733	-36.481	1.00	66.38	A16S
ATOM	18830	O1P	G	A	903	174.198	87.978	-35.731	1.00	61.35	A16S
ATOM	18831	O2P	G	A	903	173.599	85.457	-35.739	1.00	61.35	A16S
ATOM	18832	O5*	G	A	903	172.432	86.994	-37.256	1.00	66.38	A16S
ATOM	18833	C5*	G	A	903	172.357	87.996	-38.279	1.00	66.38	A16S
ATOM	18834	C4*	G	A	903	170.977	88.018	-38.898	1.00	66.38	A16S
ATOM	18835	O4*	G	A	903	170.724	86.785	-39.618	1.00	66.38	A16S
ATOM	18836	C1*	G	A	903	169.357	86.448	-39.508	1.00	66.38	A16S
ATOM	18837	N9	G	A	903	169.283	85.140	-38.869	1.00	61.35	A16S
ATOM	18838	C4	G	A	903	168.160	84.383	-38.695	1.00	61.35	A16S
ATOM	18839	N3	G	A	903	166.911	84.733	-39.058	1.00	61.35	A16S
ATOM	18840	C2	G	A	903	166.037	83.777	-38.786	1.00	61.35	A16S
ATOM	18841	N2	G	A	903	164.737	83.955	-39.088	1.00	61.35	A16S
ATOM	18842	N1	G	A	903	166.372	82.577	-38.201	1.00	61.35	A16S
ATOM	18843	C6	G	A	903	167.656	82.206	-37.821	1.00	61.35	A16S
ATOM	18844	O6	G	A	903	167.852	81.107	-37.310	1.00	61.35	A16S
ATOM	18845	C5	G	A	903	168.592	83.213	-38.105	1.00	61.35	A16S
ATOM	18846	N7	G	A	903	169.960	83.245	-37.891	1.00	61.35	A16S
ATOM	18847	C8	G	A	903	170.328	84.409	-38.351	1.00	61.35	A16S
ATOM	18848	C2*	G	A	903	168.658	87.568	-38.733	1.00	66.38	A16S
ATOM	18849	O2*	G	A	903	168.134	88.525	-39.640	1.00	66.38	A16S
ATOM	18850	C3*	G	A	903	169.813	88.153	-37.936	1.00	66.38	A16S
ATOM	18851	O3*	G	A	903	169.597	89.513	-37.625	1.00	66.38	A16S
ATOM	18852	P	C	A	904	168.991	89.911	-36.193	1.00	63.88	A16S
ATOM	18853	O1P	C	A	904	168.894	91.400	-36.235	1.00	51.43	A16S
ATOM	18854	O2P	C	A	904	169.788	89.254	-35.120	1.00	51.43	A16S
ATOM	18855	O5*	C	A	904	167.507	89.328	-36.231	1.00	63.88	A16S
ATOM	18856	C5*	C	A	904	166.536	89.912	-37.124	1.00	63.88	A16S
ATOM	18857	C4*	C	A	904	165.217	89.197	-37.029	1.00	63.88	A16S
ATOM	18858	O4*	C	A	904	165.346	87.841	-37.521	1.00	63.88	A16S



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ATOM	18859	C1*	C	A	904	164.497	86.986	-36.779	1.00	63.88	A16S
ATOM	18860	N1	C	A	904	165.317	85.943	-36.133	1.00	51.43	A16S
ATOM	18861	C6	C	A	904	166.658	86.119	-35.934	1.00	51.43	A16S
ATOM	18862	C2	C	A	904	164.694	84.751	-35.722	1.00	51.43	A16S
ATOM	18863	O2	C	A	904	163.474	84.618	-35.894	1.00	51.43	A16S
ATOM	18864	N3	C	A	904	165.434	83.780	-35.145	1.00	51.43	A16S
ATOM	18865	C4	C	A	904	166.737	83.961	-34.962	1.00	51.43	A16S
ATOM	18866	N4	C	A	904	167.417	82.983	-34.392	1.00	51.43	A16S
ATOM	18867	C5	C	A	904	167.398	85.161	-35.357	1.00	51.43	A16S
ATOM	18868	C2*	C	A	904	163.738	87.845	-35.770	1.00	63.88	A16S
ATOM	18869	O2*	C	A	904	162.482	88.205	-36.305	1.00	63.88	A16S
ATOM	18870	C3*	C	A	904	164.665	89.040	-35.631	1.00	63.88	A16S
ATOM	18871	O3*	C	A	904	163.988	90.201	-35.192	1.00	63.88	A16S
ATOM	18872	P	U	A	905	164.046	90.600	-33.630	1.00	63.31	A16S
ATOM	18873	O1P	U	A	905	163.255	91.868	-33.497	1.00	65.60	A16S
ATOM	18874	O2P	U	A	905	165.470	90.557	-33.144	1.00	65.60	A16S
ATOM	18875	O5*	U	A	905	163.253	89.426	-32.894	1.00	63.31	A16S
ATOM	18876	C5*	U	A	905	161.859	89.250	-33.121	1.00	63.31	A16S
ATOM	18877	C4*	U	A	905	161.416	87.912	-32.622	1.00	63.31	A16S
ATOM	18878	O4*	U	A	905	162.161	86.866	-33.287	1.00	63.31	A16S
ATOM	18879	C1*	U	A	905	162.236	85.729	-32.446	1.00	63.31	A16S
ATOM	18880	N1	U	A	905	163.644	85.363	-32.246	1.00	65.60	A16S
ATOM	18881	C6	U	A	905	164.644	86.302	-32.277	1.00	65.60	A16S
ATOM	18882	C2	U	A	905	163.928	84.033	-32.000	1.00	65.60	A16S
ATOM	18883	O2	U	A	905	163.075	83.162	-32.013	1.00	65.60	A16S
ATOM	18884	N3	U	A	905	165.249	83.758	-31.745	1.00	65.60	A16S
ATOM	18885	C4	U	A	905	166.295	84.657	-31.729	1.00	65.60	A16S
ATOM	18886	O4	U	A	905	167.410	84.281	-31.373	1.00	65.60	A16S
ATOM	18887	C5	U	A	905	165.926	86.002	-32.037	1.00	65.60	A16S
ATOM	18888	C2*	U	A	905	161.558	86.096	-31.130	1.00	63.31	A16S
ATOM	18889	O2*	U	A	905	160.225	85.622	-31.180	1.00	63.31	A16S
ATOM	18890	C3*	U	A	905	161.645	87.615	-31.159	1.00	63.31	A16S
ATOM	18891	O3*	U	A	905	160.669	88.233	-30.352	1.00	63.31	A16S
ATOM	18892	P	G	A	906	161.137	89.218	-29.170	1.00	64.15	A16S
ATOM	18893	O1P	G	A	906	159.911	89.638	-28.430	1.00	68.36	A16S
ATOM	18894	O2P	G	A	906	162.041	90.263	-29.757	1.00	68.36	A16S
ATOM	18895	O5*	G	A	906	161.996	88.262	-28.225	1.00	64.15	A16S
ATOM	18896	C5*	G	A	906	161.373	87.148	-27.572	1.00	64.15	A16S
ATOM	18897	C4*	G	A	906	162.395	86.312	-26.846	1.00	64.15	A16S
ATOM	18898	O4*	G	A	906	163.217	85.590	-27.794	1.00	64.15	A16S
ATOM	18899	C1*	G	A	906	164.524	85.445	-27.272	1.00	64.15	A16S
ATOM	18900	N9	G	A	906	165.406	86.276	-28.073	1.00	68.36	A16S
ATOM	18901	C4	G	A	906	166.733	86.061	-28.320	1.00	68.36	A16S
ATOM	18902	N3	G	A	906	167.464	85.019	-27.877	1.00	68.36	A16S
ATOM	18903	C2	G	A	906	168.713	85.092	-28.291	1.00	68.36	A16S
ATOM	18904	N2	G	A	906	169.586	84.149	-27.946	1.00	68.36	A16S
ATOM	18905	N1	G	A	906	169.199	86.099	-29.078	1.00	68.36	A16S
ATOM	18906	C6	G	A	906	168.457	87.177	-29.545	1.00	68.36	A16S
ATOM	18907	O6	G	A	906	168.982	88.030	-30.263	1.00	68.36	A16S
ATOM	18908	C5	G	A	906	167.130	87.119	-29.102	1.00	68.36	A16S
ATOM	18909	N7	G	A	906	166.076	87.988	-29.332	1.00	68.36	A16S
ATOM	18910	C8	G	A	906	165.073	87.444	-28.710	1.00	68.36	A16S
ATOM	18911	C2*	G	A	906	164.506	85.996	-25.852	1.00	64.15	A16S
ATOM	18912	O2*	G	A	906	164.185	84.944	-24.963	1.00	64.15	A16S
ATOM	18913	C3*	G	A	906	163.396	87.026	-25.956	1.00	64.15	A16S
ATOM	18914	O3*	G	A	906	162.871	87.328	-24.693	1.00	64.15	A16S
ATOM	18915	P	A	A	907	163.677	88.318	-23.725	1.00	66.88	A16S
ATOM	18916	O1P	A	A	907	162.769	88.602	-22.582	1.00	53.49	A16S
ATOM	18917	O2P	A	A	907	164.246	89.446	-24.515	1.00	53.49	A16S
ATOM	18918	O5*	A	A	907	164.890	87.438	-23.188	1.00	66.88	A16S
ATOM	18919	C5*	A	A	907	165.011	87.111	-21.792	1.00	66.88	A16S
ATOM	18920	C4*	A	A	907	164.352	85.790	-21.519	1.00	66.88	A16S
ATOM	18921	O4*	A	A	907	164.777	84.818	-22.500	1.00	66.88	A16S
ATOM	18922	C1*	A	A	907	165.000	83.568	-21.875	1.00	66.88	A16S
ATOM	18923	N9	A	A	907	166.436	83.318	-21.901	1.00	53.49	A16S
ATOM	18924	C4	A	A	907	167.096	82.230	-21.385	1.00	53.49	A16S
ATOM	18925	N3	A	A	907	166.558	81.174	-20.757	1.00	53.49	A16S
ATOM	18926	C2	A	A	907	167.506	80.315	-20.405	1.00	53.49	A16S
ATOM	18927	N1	A	A	907	168.831	80.386	-20.594	1.00	53.49	A16S
ATOM	18928	C6	A	A	907	169.334	81.471	-21.216	1.00	53.49	A16S
ATOM	18929	N6	A	A	907	170.653	81.562	-21.391	1.00	53.49	A16S
ATOM	18930	C5	A	A	907	168.436	82.449	-21.638	1.00	53.49	A16S
ATOM	18931	N7	A	A	907	168.621	83.659	-22.291	1.00	53.49	A16S
ATOM	18932	C8	A	A	907	167.409	84.130	-22.429	1.00	53.49	A16S
ATOM	18933	C2*	A	A	907	164.518	83.698	-20.435	1.00	66.88	A16S
ATOM	18934	O2*	A	A	907	163.166	83.302	-20.389	1.00	66.88	A16S
ATOM	18935	C3*	A	A	907	164.716	85.183	-20.188	1.00	66.88	A16S



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ATOM	18936	O3*	A	A	907	163.865	85.676	-19.192	1.00	66.88	A16S
ATOM	18937	P	A	A	908	164.492	86.235	-17.839	1.00	75.58	A16S
ATOM	18938	O1P	A	A	908	163.401	86.906	-17.095	1.00	70.35	A16S
ATOM	18939	O2P	A	A	908	165.713	87.000	-18.195	1.00	70.35	A16S
ATOM	18940	O5*	A	A	908	164.907	84.919	-17.052	1.00	75.58	A16S
ATOM	18941	C5*	A	A	908	163.937	83.920	-16.732	1.00	75.58	A16S
ATOM	18942	C4*	A	A	908	164.632	82.652	-16.316	1.00	75.58	A16S
ATOM	18943	O4*	A	A	908	165.346	82.106	-17.458	1.00	75.58	A16S
ATOM	18944	C1*	A	A	908	166.556	81.495	-17.026	1.00	75.58	A16S
ATOM	18945	N9	A	A	908	167.682	82.235	-17.603	1.00	70.35	A16S
ATOM	18946	C4	A	A	908	169.000	81.838	-17.649	1.00	70.35	A16S
ATOM	18947	N3	A	A	908	169.523	80.688	-17.199	1.00	70.35	A16S
ATOM	18948	C2	A	A	908	170.845	80.653	-17.415	1.00	70.35	A16S
ATOM	18949	N1	A	A	908	171.641	81.566	-17.986	1.00	70.35	A16S
ATOM	18950	C6	A	A	908	171.083	82.712	-18.429	1.00	70.35	A16S
ATOM	18951	N6	A	A	908	171.876	83.622	-19.005	1.00	70.35	A16S
ATOM	18952	C5	A	A	908	169.687	82.873	-18.257	1.00	70.35	A16S
ATOM	18953	N7	A	A	908	168.820	83.901	-18.593	1.00	70.35	A16S
ATOM	18954	C8	A	A	908	167.648	83.472	-18.190	1.00	70.35	A16S
ATOM	18955	C2*	A	A	908	166.569	81.566	-15.501	1.00	75.58	A16S
ATOM	18956	O2*	A	A	908	165.955	80.402	-14.980	1.00	75.58	A16S
ATOM	18957	C3*	A	A	908	165.715	82.799	-15.256	1.00	75.58	A16S
ATOM	18958	O3*	A	A	908	165.215	82.858	-13.930	1.00	75.58	A16S
ATOM	18959	P	A	A	909	166.057	83.644	-12.794	1.00	75.17	A16S
ATOM	18960	O1P	A	A	909	165.105	83.760	-11.655	1.00	81.88	A16S
ATOM	18961	O2P	A	A	909	166.695	84.880	-13.362	1.00	81.88	A16S
ATOM	18962	O5*	A	A	909	167.193	82.608	-12.374	1.00	75.17	A16S
ATOM	18963	C5*	A	A	909	166.830	81.302	-11.905	1.00	75.17	A16S
ATOM	18964	C4*	A	A	909	168.028	80.398	-11.886	1.00	75.17	A16S
ATOM	18965	O4*	A	A	909	168.559	80.264	-13.225	1.00	75.17	A16S
ATOM	18966	C1*	A	A	909	169.964	80.145	-13.163	1.00	75.17	A16S
ATOM	18967	N9	A	A	909	170.545	81.272	-13.885	1.00	81.88	A16S
ATOM	18968	C4	A	A	909	171.868	81.411	-14.225	1.00	81.88	A16S
ATOM	18969	N3	A	A	909	172.864	80.542	-13.984	1.00	81.88	A16S
ATOM	18970	C2	A	A	909	174.014	81.006	-14.464	1.00	81.88	A16S
ATOM	18971	N1	A	A	909	174.264	82.157	-15.103	1.00	81.88	A16S
ATOM	18972	C6	A	A	909	173.240	83.013	-15.316	1.00	81.88	A16S
ATOM	18973	N6	A	A	909	173.492	84.172	-15.931	1.00	81.88	A16S
ATOM	18974	C5	A	A	909	171.967	82.631	-14.868	1.00	81.88	A16S
ATOM	18975	N7	A	A	909	170.727	83.249	-14.943	1.00	81.88	A16S
ATOM	18976	C8	A	A	909	169.919	82.404	-14.348	1.00	81.88	A16S
ATOM	18977	C2*	A	A	909	170.367	80.158	-11.687	1.00	75.17	A16S
ATOM	18978	O2*	A	A	909	170.445	78.835	-11.197	1.00	75.17	A16S
ATOM	18979	C3*	A	A	909	169.197	80.888	-11.057	1.00	75.17	A16S
ATOM	18980	O3*	A	A	909	169.043	80.509	-9.701	1.00	75.17	A16S
ATOM	18981	P	C	A	910	169.178	81.619	-8.546	1.00	64.16	A16S
ATOM	18982	O1P	C	A	910	168.940	80.866	-7.283	1.00	70.50	A16S
ATOM	18983	O2P	C	A	910	168.314	82.793	-8.882	1.00	70.50	A16S
ATOM	18984	O5*	C	A	910	170.691	82.112	-8.632	1.00	64.16	A16S
ATOM	18985	C5*	C	A	910	171.767	81.173	-8.584	1.00	64.16	A16S
ATOM	18986	C4*	C	A	910	173.008	81.774	-9.190	1.00	64.16	A16S
ATOM	18987	O4*	C	A	910	172.802	82.005	-10.609	1.00	64.16	A16S
ATOM	18988	C1*	C	A	910	173.484	83.181	-11.007	1.00	64.16	A16S
ATOM	18989	N1	C	A	910	172.485	84.123	-11.538	1.00	70.50	A16S
ATOM	18990	C6	C	A	910	171.146	83.870	-11.409	1.00	70.50	A16S
ATOM	18991	C2	C	A	910	172.921	85.295	-12.163	1.00	70.50	A16S
ATOM	18992	O2	C	A	910	174.130	85.487	-12.296	1.00	70.50	A16S
ATOM	18993	N3	C	A	910	172.010	86.188	-12.609	1.00	70.50	A16S
ATOM	18994	C4	C	A	910	170.708	85.942	-12.461	1.00	70.50	A16S
ATOM	18995	N4	C	A	910	169.844	86.857	-12.903	1.00	70.50	A16S
ATOM	18996	C5	C	A	910	170.232	84.745	-11.851	1.00	70.50	A16S
ATOM	18997	C2*	C	A	910	174.223	83.724	-9.778	1.00	64.16	A16S
ATOM	18998	O2*	C	A	910	175.559	83.272	-9.786	1.00	64.16	A16S
ATOM	18999	C3*	C	A	910	173.412	83.124	-8.638	1.00	64.16	A16S
ATOM	19000	O3*	C	A	910	174.156	82.982	-7.446	1.00	64.16	A16S
ATOM	19001	P	U	A	911	173.955	84.049	-6.262	1.00	72.81	A16S
ATOM	19002	O1P	U	A	911	174.751	83.564	-5.087	1.00	72.92	A16S
ATOM	19003	O2P	U	A	911	172.494	84.317	-6.105	1.00	72.92	A16S
ATOM	19004	O5*	U	A	911	174.642	85.369	-6.833	1.00	72.81	A16S
ATOM	19005	C5*	U	A	911	176.019	85.344	-7.220	1.00	72.81	A16S
ATOM	19006	C4*	U	A	911	176.392	86.594	-7.978	1.00	72.81	A16S
ATOM	19007	O4*	U	A	911	175.743	86.637	-9.269	1.00	72.81	A16S
ATOM	19008	C1*	U	A	911	175.491	87.981	-9.628	1.00	72.81	A16S
ATOM	19009	N1	U	A	911	174.043	88.139	-9.795	1.00	72.92	A16S
ATOM	19010	C6	U	A	911	173.158	87.334	-9.122	1.00	72.92	A16S
ATOM	19011	C2	U	A	911	173.605	89.124	-10.640	1.00	72.92	A16S
ATOM	19012	O2	U	A	911	174.360	89.845	-11.253	1.00	72.92	A16S



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ATOM	19013	N3	U	A	911	172.245	89.235	-10.741	1.00	72.92	A16S
ATOM	19014	C4	U	A	911	171.303	88.468	-10.090	1.00	72.92	A16S
ATOM	19015	O4	U	A	911	170.110	88.709	-10.253	1.00	72.92	A16S
ATOM	19016	C5	U	A	911	171.841	87.460	-9.238	1.00	72.92	A16S
ATOM	19017	C2*	U	A	911	176.040	88.871	-8.514	1.00	72.81	A16S
ATOM	19018	O2*	U	A	911	177.335	89.303	-8.868	1.00	72.81	A16S
ATOM	19019	C3*	U	A	911	176.044	87.913	-7.331	1.00	72.81	A16S
ATOM	19020	O3*	U	A	911	177.026	88.250	-6.386	1.00	72.81	A16S
ATOM	19021	P	C	A	912	176.677	89.305	-5.241	1.00	75.45	A16S
ATOM	19022	O1P	C	A	912	177.814	89.304	-4.275	1.00	59.67	A16S
ATOM	19023	O2P	C	A	912	175.290	89.011	-4.767	1.00	59.67	A16S
ATOM	19024	O5*	C	A	912	176.696	90.692	-6.013	1.00	75.45	A16S
ATOM	19025	C5*	C	A	912	177.906	91.142	-6.619	1.00	75.45	A16S
ATOM	19026	C4*	C	A	912	177.664	92.404	-7.393	1.00	75.45	A16S
ATOM	19027	O4*	C	A	912	176.788	92.128	-8.502	1.00	75.45	A16S
ATOM	19028	C1*	C	A	912	175.965	93.250	-8.735	1.00	75.45	A16S
ATOM	19029	N1	C	A	912	174.568	92.825	-8.659	1.00	59.67	A16S
ATOM	19030	C6	C	A	912	174.211	91.647	-8.062	1.00	59.67	A16S
ATOM	19031	C2	C	A	912	173.605	93.647	-9.230	1.00	59.67	A16S
ATOM	19032	O2	C	A	912	173.970	94.728	-9.735	1.00	59.67	A16S
ATOM	19033	N3	C	A	912	172.309	93.256	-9.220	1.00	59.67	A16S
ATOM	19034	C4	C	A	912	171.971	92.092	-8.661	1.00	59.67	A16S
ATOM	19035	N4	C	A	912	170.687	91.729	-8.700	1.00	59.67	A16S
ATOM	19036	C5	C	A	912	172.938	91.244	-8.043	1.00	59.67	A16S
ATOM	19037	C2*	C	A	912	176.326	94.335	-7.726	1.00	75.45	A16S
ATOM	19038	O2*	C	A	912	177.201	95.247	-8.356	1.00	75.45	A16S
ATOM	19039	C3*	C	A	912	176.982	93.516	-6.625	1.00	75.45	A16S
ATOM	19040	O3*	C	A	912	177.949	94.249	-5.915	1.00	75.45	A16S
ATOM	19041	P	A	A	913	177.577	94.891	-4.498	1.00	95.62	A16S
ATOM	19042	O1P	A	A	913	178.707	94.584	-3.599	1.00	65.46	A16S
ATOM	19043	O2P	A	A	913	176.197	94.512	-4.083	1.00	65.46	A16S
ATOM	19044	O5*	A	A	913	177.623	96.446	-4.829	1.00	95.62	A16S
ATOM	19045	C5*	A	A	913	176.970	97.401	-3.989	1.00	95.62	A16S
ATOM	19046	C4*	A	A	913	176.309	98.456	-4.833	1.00	95.62	A16S
ATOM	19047	O4*	A	A	913	175.591	97.791	-5.886	1.00	95.62	A16S
ATOM	19048	C1*	A	A	913	174.337	98.393	-6.053	1.00	95.62	A16S
ATOM	19049	N9	A	A	913	173.329	97.339	-6.086	1.00	65.46	A16S
ATOM	19050	C4	A	A	913	172.170	97.369	-6.825	1.00	65.46	A16S
ATOM	19051	N3	A	A	913	171.726	98.374	-7.600	1.00	65.46	A16S
ATOM	19052	C2	A	A	913	170.587	98.040	-8.178	1.00	65.46	A16S
ATOM	19053	N1	A	A	913	169.892	96.898	-8.081	1.00	65.46	A16S
ATOM	19054	C6	A	A	913	170.370	95.915	-7.296	1.00	65.46	A16S
ATOM	19055	N6	A	A	913	169.684	94.785	-7.206	1.00	65.46	A16S
ATOM	19056	C5	A	A	913	171.564	96.143	-6.626	1.00	65.46	A16S
ATOM	19057	N7	A	A	913	172.311	95.356	-5.761	1.00	65.46	A16S
ATOM	19058	C8	A	A	913	173.340	96.115	-5.458	1.00	65.46	A16S
ATOM	19059	C2*	A	A	913	174.173	99.545	-5.056	1.00	95.62	A16S
ATOM	19060	O2*	A	A	913	174.261	100.768	-5.744	1.00	95.62	A16S
ATOM	19061	C3*	A	A	913	175.297	99.280	-4.061	1.00	95.62	A16S
ATOM	19062	O3*	A	A	913	175.962	100.405	-3.432	1.00	95.62	A16S
ATOM	19063	P	A	A	914	176.295	101.776	-4.253	1.00	72.03	A16S
ATOM	19064	O1P	A	A	914	177.380	102.439	-3.470	1.00	101.89	A16S
ATOM	19065	O2P	A	A	914	175.051	102.542	-4.557	1.00	101.89	A16S
ATOM	19066	O5*	A	A	914	176.912	101.303	-5.639	1.00	58.55	A16S
ATOM	19067	C5*	A	A	914	176.658	102.022	-6.869	1.00	58.55	A16S
ATOM	19068	C4*	A	A	914	176.526	101.023	-7.993	1.00	58.55	A16S
ATOM	19069	O4*	A	A	914	175.238	100.368	-7.910	1.00	58.55	A16S
ATOM	19070	C1*	A	A	914	174.800	99.998	-9.198	1.00	58.55	A16S
ATOM	19071	N9	A	A	914	173.522	100.664	-9.467	1.00	62.55	A16S
ATOM	19072	C4	A	A	914	172.708	100.434	-10.549	1.00	62.55	A16S
ATOM	19073	N3	A	A	914	172.904	99.557	-11.547	1.00	62.55	A16S
ATOM	19074	C2	A	A	914	171.922	99.622	-12.427	1.00	62.55	A16S
ATOM	19075	N1	A	A	914	170.852	100.405	-12.433	1.00	62.55	A16S
ATOM	19076	C6	A	A	914	170.685	101.275	-11.422	1.00	62.55	A16S
ATOM	19077	N6	A	A	914	169.615	102.067	-11.439	1.00	62.55	A16S
ATOM	19078	C5	A	A	914	171.650	101.300	-10.415	1.00	62.55	A16S
ATOM	19079	N7	A	A	914	171.775	102.053	-9.259	1.00	62.55	A16S
ATOM	19080	C8	A	A	914	172.895	101.636	-8.731	1.00	62.55	A16S
ATOM	19081	C2*	A	A	914	175.910	100.383	-10.174	1.00	58.55	A16S
ATOM	19082	O2*	A	A	914	176.758	99.255	-10.304	1.00	58.55	A16S
ATOM	19083	C3*	A	A	914	176.613	101.506	-9.424	1.00	58.55	A16S
ATOM	19084	O3*	A	A	914	177.974	101.563	-9.807	1.00	58.55	A16S
ATOM	19085	P	A	A	915	178.401	102.424	-11.090	1.00	68.41	A16S
ATOM	19086	O1P	A	A	915	179.795	102.016	-11.390	1.00	70.25	A16S
ATOM	19087	O2P	A	A	915	178.089	103.876	-10.849	1.00	70.25	A16S
ATOM	19088	O5*	A	A	915	177.465	101.881	-12.264	1.00	68.41	A16S
ATOM	19089	C5*	A	A	915	177.780	100.665	-12.943	1.00	68.41	A16S



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ATOM	19090	C4*	A	A	915	176.833	100.439	-14.091	1.00	68.41	A16S
ATOM	19091	O4*	A	A	915	175.500	100.156	-13.596	1.00	68.41	A16S
ATOM	19092	C1*	A	A	915	174.535	100.596	-14.545	1.00	68.41	A16S
ATOM	19093	N9	A	A	915	173.686	101.615	-13.938	1.00	70.25	A16S
ATOM	19094	C4	A	A	915	172.517	102.075	-14.483	1.00	70.25	A16S
ATOM	19095	N3	A	A	915	171.919	101.637	-15.597	1.00	70.25	A16S
ATOM	19096	C2	A	A	915	170.819	102.335	-15.836	1.00	70.25	A16S
ATOM	19097	N1	A	A	915	170.298	103.353	-15.148	1.00	70.25	A16S
ATOM	19098	C6	A	A	915	170.936	103.771	-14.040	1.00	70.25	A16S
ATOM	19099	N6	A	A	915	170.439	104.806	-13.375	1.00	70.25	A16S
ATOM	19100	C5	A	A	915	172.096	103.096	-13.664	1.00	70.25	A16S
ATOM	19101	N7	A	A	915	172.954	103.246	-12.589	1.00	70.25	A16S
ATOM	19102	C8	A	A	915	173.876	102.340	-12.795	1.00	70.25	A16S
ATOM	19103	C2*	A	A	915	175.295	101.230	-15.705	1.00	68.41	A16S
ATOM	19104	O2*	A	A	915	175.448	100.294	-16.753	1.00	68.41	A16S
ATOM	19105	C3*	A	A	915	176.605	101.602	-15.030	1.00	68.41	A16S
ATOM	19106	O3*	A	A	915	177.643	101.818	-15.946	1.00	68.41	A16S
ATOM	19107	P	G	A	916	178.244	103.299	-16.078	1.00	66.26	A16S
ATOM	19108	O1P	G	A	916	179.288	103.272	-17.143	1.00	66.75	A16S
ATOM	19109	O2P	G	A	916	178.593	103.744	-14.691	1.00	66.75	A16S
ATOM	19110	O5*	G	A	916	177.031	104.202	-16.589	1.00	66.26	A16S
ATOM	19111	C5*	G	A	916	176.278	103.800	-17.736	1.00	66.26	A16S
ATOM	19112	C4*	G	A	916	175.008	104.613	-17.879	1.00	66.26	A16S
ATOM	19113	O4*	G	A	916	174.105	104.415	-16.757	1.00	66.26	A16S
ATOM	19114	C1*	G	A	916	173.238	105.537	-16.659	1.00	66.26	A16S
ATOM	19115	N9	G	A	916	173.318	106.108	-15.315	1.00	66.75	A16S
ATOM	19116	C4	G	A	916	172.636	107.221	-14.860	1.00	66.75	A16S
ATOM	19117	N3	G	A	916	171.736	107.940	-15.558	1.00	66.75	A16S
ATOM	19118	C2	G	A	916	171.282	108.967	-14.867	1.00	66.75	A16S
ATOM	19119	N2	G	A	916	170.367	109.767	-15.400	1.00	66.75	A16S
ATOM	19120	N1	G	A	916	171.688	109.284	-13.606	1.00	66.75	A16S
ATOM	19121	C6	G	A	916	172.624	108.576	-12.873	1.00	66.75	A16S
ATOM	19122	O6	G	A	916	172.958	108.981	-11.758	1.00	66.75	A16S
ATOM	19123	C5	G	A	916	173.097	107.438	-13.588	1.00	66.75	A16S
ATOM	19124	N7	G	A	916	174.007	106.455	-13.222	1.00	66.75	A16S
ATOM	19125	C8	G	A	916	174.102	105.687	-14.274	1.00	66.75	A16S
ATOM	19126	C2*	G	A	916	173.670	106.539	-17.734	1.00	66.26	A16S
ATOM	19127	O2*	G	A	916	172.887	106.323	-18.892	1.00	66.26	A16S
ATOM	19128	C3*	G	A	916	175.107	106.121	-17.996	1.00	66.26	A16S
ATOM	19129	O3*	G	A	916	175.484	106.506	-19.300	1.00	66.26	A16S
ATOM	19130	P	G	A	917	176.231	107.914	-19.532	1.00	54.81	A16S
ATOM	19131	O1P	G	A	917	176.868	107.796	-20.879	1.00	58.26	A16S
ATOM	19132	O2P	G	A	917	177.065	108.281	-18.348	1.00	58.26	A16S
ATOM	19133	O5*	G	A	917	175.057	108.995	-19.607	1.00	54.81	A16S
ATOM	19134	C5*	G	A	917	174.016	108.885	-20.594	1.00	54.81	A16S
ATOM	19135	C4*	G	A	917	172.963	109.942	-20.373	1.00	54.81	A16S
ATOM	19136	O4*	G	A	917	172.275	109.727	-19.121	1.00	54.81	A16S
ATOM	19137	C1*	G	A	917	171.950	110.974	-18.541	1.00	54.81	A16S
ATOM	19138	N9	G	A	917	172.662	111.058	-17.276	1.00	58.26	A16S
ATOM	19139	C4	G	A	917	172.499	112.014	-16.308	1.00	58.26	A16S
ATOM	19140	N3	G	A	917	171.688	113.088	-16.382	1.00	58.26	A16S
ATOM	19141	C2	G	A	917	171.709	113.803	-15.272	1.00	58.26	A16S
ATOM	19142	N2	G	A	917	170.957	114.903	-15.185	1.00	58.26	A16S
ATOM	19143	N1	G	A	917	172.467	113.492	-14.173	1.00	58.26	A16S
ATOM	19144	C6	G	A	917	173.317	112.391	-14.079	1.00	58.26	A16S
ATOM	19145	O6	G	A	917	173.968	112.193	-13.038	1.00	58.26	A16S
ATOM	19146	C5	G	A	917	173.303	111.618	-15.270	1.00	58.26	A16S
ATOM	19147	N7	G	A	917	173.995	110.460	-15.599	1.00	58.26	A16S
ATOM	19148	C8	G	A	917	173.593	110.175	-16.802	1.00	58.26	A16S
ATOM	19149	C2*	G	A	917	172.371	112.059	-19.521	1.00	54.81	A16S
ATOM	19150	O2*	G	A	917	171.299	112.318	-20.403	1.00	54.81	A16S
ATOM	19151	C3*	G	A	917	173.479	111.354	-20.260	1.00	54.81	A16S
ATOM	19152	O3*	G	A	917	173.635	111.900	-21.513	1.00	54.81	A16S
ATOM	19153	P	A	A	918	174.899	112.804	-21.781	1.00	56.44	A16S
ATOM	19154	O1P	A	A	918	174.928	113.098	-23.257	1.00	56.88	A16S
ATOM	19155	O2P	A	A	918	176.061	112.140	-21.111	1.00	56.88	A16S
ATOM	19156	O5*	A	A	918	174.532	114.155	-21.037	1.00	56.44	A16S
ATOM	19157	C5*	A	A	918	173.543	115.002	-21.598	1.00	56.44	A16S
ATOM	19158	C4*	A	A	918	173.254	116.123	-20.671	1.00	56.44	A16S
ATOM	19159	O4*	A	A	918	172.744	115.579	-19.438	1.00	56.44	A16S
ATOM	19160	C1*	A	A	918	173.174	116.377	-18.357	1.00	56.44	A16S
ATOM	19161	N9	A	A	918	173.993	115.549	-17.480	1.00	56.88	A16S
ATOM	19162	C4	A	A	918	174.269	115.758	-16.150	1.00	56.88	A16S
ATOM	19163	N3	A	A	918	173.825	116.751	-15.363	1.00	56.88	A16S
ATOM	19164	C2	A	A	918	174.302	116.617	-14.126	1.00	56.88	A16S
ATOM	19165	N1	A	A	918	175.112	115.682	-13.626	1.00	56.88	A16S
ATOM	19166	C6	A	A	918	175.535	114.701	-14.446	1.00	56.88	A16S



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ATOM	19167	N6	A	A	918	176.340	113.757	-13.961	1.00	56.88	A16S
ATOM	19168	C5	A	A	918	175.100	114.726	-15.775	1.00	56.88	A16S
ATOM	19169	N7	A	A	918	175.339	113.877	-16.842	1.00	56.88	A16S
ATOM	19170	C8	A	A	918	174.655	114.406	-17.823	1.00	56.88	A16S
ATOM	19171	C2*	A	A	918	173.962	117.547	-18.943	1.00	56.44	A16S
ATOM	19172	O2*	A	A	918	173.052	118.614	-19.154	1.00	56.44	A16S
ATOM	19173	C3*	A	A	918	174.446	116.960	-20.261	1.00	56.44	A16S
ATOM	19174	O3*	A	A	918	174.691	117.965	-21.235	1.00	56.44	A16S
ATOM	19175	P	A	A	919	176.080	118.783	-21.222	1.00	56.31	A16S
ATOM	19176	O1P	A	A	919	175.936	119.814	-22.307	1.00	61.74	A16S
ATOM	19177	O2P	A	A	919	177.232	117.826	-21.238	1.00	61.74	A16S
ATOM	19178	O5*	A	A	919	176.131	119.527	-19.809	1.00	56.31	A16S
ATOM	19179	C5*	A	A	919	175.475	120.793	-19.611	1.00	56.31	A16S
ATOM	19180	C4*	A	A	919	175.436	121.125	-18.143	1.00	56.31	A16S
ATOM	19181	O4*	A	A	919	174.936	119.970	-17.430	1.00	56.31	A16S
ATOM	19182	C1*	A	A	919	175.600	119.843	-16.195	1.00	56.31	A16S
ATOM	19183	N9	A	A	919	176.390	118.628	-16.255	1.00	61.74	A16S
ATOM	19184	C4	A	A	919	176.991	118.013	-15.187	1.00	61.74	A16S
ATOM	19185	N3	A	A	919	176.954	118.395	-13.900	1.00	61.74	A16S
ATOM	19186	C2	A	A	919	177.647	117.557	-13.143	1.00	61.74	A16S
ATOM	19187	N1	A	A	919	178.323	116.471	-13.495	1.00	61.74	A16S
ATOM	19188	C6	A	A	919	178.343	116.116	-14.796	1.00	61.74	A16S
ATOM	19189	N6	A	A	919	179.017	115.026	-15.148	1.00	61.74	A16S
ATOM	19190	C5	A	A	919	177.645	116.919	-15.703	1.00	61.74	A16S
ATOM	19191	N7	A	A	919	177.460	116.842	-17.078	1.00	61.74	A16S
ATOM	19192	C8	A	A	919	176.708	117.876	-17.353	1.00	61.74	A16S
ATOM	19193	C2*	A	A	919	176.512	121.051	-16.032	1.00	56.31	A16S
ATOM	19194	O2*	A	A	919	175.786	122.048	-15.356	1.00	56.31	A16S
ATOM	19195	C3*	A	A	919	176.769	121.427	-17.481	1.00	56.31	A16S
ATOM	19196	O3*	A	A	919	177.068	122.804	-17.600	1.00	56.31	A16S
ATOM	19197	P	U	A	920	178.539	123.331	-17.232	1.00	51.54	A16S
ATOM	19198	O1P	U	A	920	178.497	124.801	-17.486	1.00	67.03	A16S
ATOM	19199	O2P	U	A	920	179.567	122.496	-17.894	1.00	67.03	A16S
ATOM	19200	O5*	U	A	920	178.702	123.058	-15.670	1.00	51.54	A16S
ATOM	19201	C5*	U	A	920	178.082	123.930	-14.725	1.00	51.54	A16S
ATOM	19202	C4*	U	A	920	178.701	123.761	-13.372	1.00	51.54	A16S
ATOM	19203	O4*	U	A	920	178.444	122.426	-12.877	1.00	51.54	A16S
ATOM	19204	C1*	U	A	920	179.534	122.000	-12.079	1.00	51.54	A16S
ATOM	19205	N1	U	A	920	180.075	120.742	-12.629	1.00	67.03	A16S
ATOM	19206	C6	U	A	920	179.863	120.370	-13.934	1.00	67.03	A16S
ATOM	19207	C2	U	A	920	180.808	119.927	-11.771	1.00	67.03	A16S
ATOM	19208	O2	U	A	920	181.039	120.212	-10.606	1.00	67.03	A16S
ATOM	19209	N3	U	A	920	181.259	118.760	-12.322	1.00	67.03	A16S
ATOM	19210	C4	U	A	920	181.061	118.316	-13.600	1.00	67.03	A16S
ATOM	19211	O4	U	A	920	181.411	117.165	-13.894	1.00	67.03	A16S
ATOM	19212	C5	U	A	920	180.317	119.217	-14.434	1.00	67.03	A16S
ATOM	19213	C2*	U	A	920	180.550	123.142	-12.047	1.00	51.54	A16S
ATOM	19214	O2*	U	A	920	180.335	123.924	-10.888	1.00	51.54	A16S
ATOM	19215	C3*	U	A	920	180.203	123.892	-13.321	1.00	51.54	A16S
ATOM	19216	O3*	U	A	920	180.614	125.238	-13.272	1.00	51.54	A16S
ATOM	19217	P	U	A	921	182.070	125.630	-13.821	1.00	57.96	A16S
ATOM	19218	O1P	U	A	921	182.095	127.113	-13.972	1.00	58.28	A16S
ATOM	19219	O2P	U	A	921	182.320	124.772	-15.011	1.00	58.28	A16S
ATOM	19220	O5*	U	A	921	183.057	125.184	-12.645	1.00	57.96	A16S
ATOM	19221	C5*	U	A	921	183.086	125.910	-11.408	1.00	57.96	A16S
ATOM	19222	C4*	U	A	921	183.833	125.138	-10.362	1.00	57.96	A16S
ATOM	19223	O4*	U	A	921	183.226	123.828	-10.241	1.00	57.96	A16S
ATOM	19224	C1*	U	A	921	184.214	122.862	-9.908	1.00	57.96	A16S
ATOM	19225	N1	U	A	921	184.204	121.795	-10.922	1.00	58.28	A16S
ATOM	19226	C6	U	A	921	183.626	121.982	-12.153	1.00	58.28	A16S
ATOM	19227	C2	U	A	921	184.807	120.583	-10.597	1.00	58.28	A16S
ATOM	19228	O2	U	A	921	185.338	120.371	-9.524	1.00	58.28	A16S
ATOM	19229	N3	U	A	921	184.772	119.631	-11.585	1.00	58.28	A16S
ATOM	19230	C4	U	A	921	184.224	119.760	-12.840	1.00	58.28	A16S
ATOM	19231	O4	U	A	921	184.400	118.863	-13.672	1.00	58.28	A16S
ATOM	19232	C5	U	A	921	183.613	121.032	-13.094	1.00	58.28	A16S
ATOM	19233	C2*	U	A	921	185.557	123.583	-9.828	1.00	57.96	A16S
ATOM	19234	O2*	U	A	921	185.863	123.845	-8.475	1.00	57.96	A16S
ATOM	19235	C3*	U	A	921	185.288	124.835	-10.662	1.00	57.96	A16S
ATOM	19236	O3*	U	A	921	186.161	125.907	-10.333	1.00	57.96	A16S
ATOM	19237	P	G	A	922	187.463	126.167	-11.250	1.00	68.89	A16S
ATOM	19238	O1P	G	A	922	188.204	127.291	-10.617	1.00	60.85	A16S
ATOM	19239	O2P	G	A	922	187.025	126.287	-12.668	1.00	60.85	A16S
ATOM	19240	O5*	G	A	922	188.328	124.822	-11.099	1.00	68.89	A16S
ATOM	19241	C5*	G	A	922	189.085	124.591	-9.896	1.00	68.89	A16S
ATOM	19242	C4*	G	A	922	189.596	123.164	-9.794	1.00	68.89	A16S
ATOM	19243	O4*	G	A	922	188.540	122.196	-10.020	1.00	68.89	A16S



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ATOM	19244	C1*	G	A	922	189.119	120.946	-10.373	1.00	68.89	A16S
ATOM	19245	N9	G	A	922	188.566	120.508	-11.656	1.00	60.85	A16S
ATOM	19246	C4	G	A	922	188.632	119.238	-12.202	1.00	60.85	A16S
ATOM	19247	N3	G	A	922	189.230	118.168	-11.652	1.00	60.85	A16S
ATOM	19248	C2	G	A	922	189.112	117.095	-12.410	1.00	60.85	A16S
ATOM	19249	N2	G	A	922	189.650	115.945	-12.014	1.00	60.85	A16S
ATOM	19250	N1	G	A	922	188.455	117.069	-13.607	1.00	60.85	A16S
ATOM	19251	C6	G	A	922	187.821	118.156	-14.190	1.00	60.85	A16S
ATOM	19252	O6	G	A	922	187.222	118.023	-15.267	1.00	60.85	A16S
ATOM	19253	C5	G	A	922	187.955	119.318	-13.400	1.00	60.85	A16S
ATOM	19254	N7	G	A	922	187.492	120.608	-13.622	1.00	60.85	A16S
ATOM	19255	C8	G	A	922	187.876	121.279	-12.566	1.00	60.85	A16S
ATOM	19256	C2*	G	A	922	190.633	121.157	-10.437	1.00	68.89	A16S
ATOM	19257	O2*	G	A	922	191.203	120.791	-9.193	1.00	68.89	A16S
ATOM	19258	C3*	G	A	922	190.740	122.662	-10.660	1.00	68.89	A16S
ATOM	19259	O3*	G	A	922	192.013	123.106	-10.191	1.00	68.89	A16S
ATOM	19260	P	A	A	923	193.277	123.142	-11.195	1.00	70.81	A16S
ATOM	19261	O1P	A	A	923	194.422	123.739	-10.484	1.00	55.51	A16S
ATOM	19262	O2P	A	A	923	192.859	123.713	-12.507	1.00	55.51	A16S
ATOM	19263	O5*	A	A	923	193.649	121.614	-11.391	1.00	70.81	A16S
ATOM	19264	C5*	A	A	923	194.191	120.853	-10.314	1.00	70.81	A16S
ATOM	19265	C4*	A	A	923	194.347	119.418	-10.740	1.00	70.81	A16S
ATOM	19266	O4*	A	A	923	193.032	118.874	-11.019	1.00	70.81	A16S
ATOM	19267	C1*	A	A	923	193.082	118.041	-12.165	1.00	70.81	A16S
ATOM	19268	N9	A	A	923	192.314	118.705	-13.225	1.00	55.51	A16S
ATOM	19269	C4	A	A	923	191.625	118.120	-14.257	1.00	55.51	A16S
ATOM	19270	N3	A	A	923	191.521	116.809	-14.532	1.00	55.51	A16S
ATOM	19271	C2	A	A	923	190.765	116.615	-15.622	1.00	55.51	A16S
ATOM	19272	N1	A	A	923	190.150	117.521	-16.404	1.00	55.51	A16S
ATOM	19273	C6	A	A	923	190.277	118.829	-16.091	1.00	55.51	A16S
ATOM	19274	N6	A	A	923	189.660	119.731	-16.855	1.00	55.51	A16S
ATOM	19275	C5	A	A	923	191.051	119.163	-14.965	1.00	55.51	A16S
ATOM	19276	N7	A	A	923	191.378	120.381	-14.395	1.00	55.51	A16S
ATOM	19277	C8	A	A	923	192.130	120.057	-13.378	1.00	55.51	A16S
ATOM	19278	C2*	A	A	923	194.557	117.885	-12.527	1.00	70.81	A16S
ATOM	19279	O2*	A	A	923	195.123	116.802	-11.805	1.00	70.81	A16S
ATOM	19280	C3*	A	A	923	195.120	119.205	-12.033	1.00	70.81	A16S
ATOM	19281	O3*	A	A	923	196.530	119.161	-11.855	1.00	70.81	A16S
ATOM	19282	P	C	A	924	197.490	119.691	-13.038	1.00	78.61	A16S
ATOM	19283	O1P	C	A	924	198.893	119.588	-12.513	1.00	63.33	A16S
ATOM	19284	O2P	C	A	924	196.980	121.007	-13.540	1.00	63.33	A16S
ATOM	19285	O5*	C	A	924	197.277	118.608	-14.194	1.00	78.61	A16S
ATOM	19286	C5*	C	A	924	197.602	117.220	-13.960	1.00	78.61	A16S
ATOM	19287	C4*	C	A	924	197.086	116.337	-15.076	1.00	78.61	A16S
ATOM	19288	O4*	C	A	924	195.638	116.346	-15.086	1.00	78.61	A16S
ATOM	19289	C1*	C	A	924	195.175	116.205	-16.413	1.00	78.61	A16S
ATOM	19290	N1	C	A	924	194.489	117.450	-16.792	1.00	63.33	A16S
ATOM	19291	C6	C	A	924	194.841	118.639	-16.223	1.00	63.33	A16S
ATOM	19292	C2	C	A	924	193.491	117.407	-17.765	1.00	63.33	A16S
ATOM	19293	O2	C	A	924	193.175	116.315	-18.250	1.00	63.33	A16S
ATOM	19294	N3	C	A	924	192.894	118.555	-18.155	1.00	63.33	A16S
ATOM	19295	C4	C	A	924	193.261	119.712	-17.609	1.00	63.33	A16S
ATOM	19296	N4	C	A	924	192.665	120.831	-18.035	1.00	63.33	A16S
ATOM	19297	C5	C	A	924	194.262	119.783	-16.602	1.00	63.33	A16S
ATOM	19298	C2*	C	A	924	196.400	115.981	-17.300	1.00	78.61	A16S
ATOM	19299	O2*	C	A	924	196.659	114.592	-17.418	1.00	78.61	A16S
ATOM	19300	C3*	C	A	924	197.485	116.681	-16.500	1.00	78.61	A16S
ATOM	19301	O3*	C	A	924	198.771	116.179	-16.838	1.00	78.61	A16S
ATOM	19302	P	G	A	925	199.651	116.924	-17.963	1.00	74.16	A16S
ATOM	19303	O1P	G	A	925	201.002	116.318	-17.847	1.00	72.99	A16S
ATOM	19304	O2P	G	A	925	199.500	118.399	-17.858	1.00	72.99	A16S
ATOM	19305	O5*	G	A	925	198.978	116.486	-19.340	1.00	74.16	A16S
ATOM	19306	C5*	G	A	925	199.060	115.124	-19.805	1.00	74.16	A16S
ATOM	19307	C4*	G	A	925	198.436	115.007	-21.168	1.00	74.16	A16S
ATOM	19308	O4*	G	A	925	197.001	115.151	-21.049	1.00	74.16	A16S
ATOM	19309	C1*	G	A	925	196.501	115.900	-22.143	1.00	74.16	A16S
ATOM	19310	N9	G	A	925	195.895	117.114	-21.603	1.00	72.99	A16S
ATOM	19311	C4	G	A	925	194.846	117.839	-22.126	1.00	72.99	A16S
ATOM	19312	N3	G	A	925	194.154	117.549	-23.247	1.00	72.99	A16S
ATOM	19313	C2	G	A	925	193.211	118.450	-23.486	1.00	72.99	A16S
ATOM	19314	N2	G	A	925	192.418	118.330	-24.562	1.00	72.99	A16S
ATOM	19315	N1	G	A	925	192.972	119.546	-22.693	1.00	72.99	A16S
ATOM	19316	C6	G	A	925	193.682	119.871	-21.542	1.00	72.99	A16S
ATOM	19317	O6	G	A	925	193.412	120.911	-20.910	1.00	72.99	A16S
ATOM	19318	C5	G	A	925	194.681	118.909	-21.267	1.00	72.99	A16S
ATOM	19319	N7	G	A	925	195.590	118.848	-20.224	1.00	72.99	A16S
ATOM	19320	C8	G	A	925	196.285	117.770	-20.462	1.00	72.99	A16S



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ATOM	19321	C2*	G	A	925	197.679	116.196	-23.080	1.00	74.16	A16S
ATOM	19322	O2*	G	A	925	197.724	115.250	-24.124	1.00	74.16	A16S
ATOM	19323	C3*	G	A	925	198.873	116.083	-22.143	1.00	74.16	A16S
ATOM	19324	O3*	G	A	925	200.049	115.691	-22.837	1.00	74.16	A16S
ATOM	19325	P	G	A	926	201.242	116.751	-23.062	1.00	84.44	A16S
ATOM	19326	O1P	G	A	926	202.320	116.435	-22.076	1.00	67.16	A16S
ATOM	19327	O2P	G	A	926	200.685	118.129	-23.150	1.00	67.16	A16S
ATOM	19328	O5*	G	A	926	201.790	116.410	-24.509	1.00	84.44	A16S
ATOM	19329	C5*	G	A	926	200.877	116.065	-25.535	1.00	84.44	A16S
ATOM	19330	C4*	G	A	926	201.502	115.084	-26.474	1.00	84.44	A16S
ATOM	19331	O4*	G	A	926	202.488	114.271	-25.789	1.00	84.44	A16S
ATOM	19332	C1*	G	A	926	202.449	112.950	-26.298	1.00	84.44	A16S
ATOM	19333	N9	G	A	926	202.209	112.022	-25.193	1.00	67.16	A16S
ATOM	19334	C4	G	A	926	202.502	110.670	-25.162	1.00	67.16	A16S
ATOM	19335	N3	G	A	926	203.088	109.959	-26.147	1.00	67.16	A16S
ATOM	19336	C2	G	A	926	203.229	108.680	-25.823	1.00	67.16	A16S
ATOM	19337	N2	G	A	926	203.791	107.832	-26.692	1.00	67.16	A16S
ATOM	19338	N1	G	A	926	202.830	108.139	-24.629	1.00	67.16	A16S
ATOM	19339	C6	G	A	926	202.217	108.844	-23.599	1.00	67.16	A16S
ATOM	19340	O6	G	A	926	201.874	108.247	-22.554	1.00	67.16	A16S
ATOM	19341	C5	G	A	926	202.060	110.227	-23.934	1.00	67.16	A16S
ATOM	19342	N7	G	A	926	201.508	111.270	-23.205	1.00	67.16	A16S
ATOM	19343	C8	G	A	926	201.628	112.313	-23.984	1.00	67.16	A16S
ATOM	19344	C2*	G	A	926	201.373	112.909	-27.390	1.00	84.44	A16S
ATOM	19345	O2*	G	A	926	202.015	113.090	-28.631	1.00	84.44	A16S
ATOM	19346	C3*	G	A	926	200.496	114.103	-27.022	1.00	84.44	A16S
ATOM	19347	O3*	G	A	926	199.798	114.688	-28.116	1.00	84.44	A16S
ATOM	19348	P	G	A	927	198.388	115.438	-27.862	1.00	80.01	A16S
ATOM	19349	O1P	G	A	927	197.660	114.710	-26.798	1.00	69.70	A16S
ATOM	19350	O2P	G	A	927	197.720	115.664	-29.182	1.00	69.70	A16S
ATOM	19351	O5*	G	A	927	198.808	116.865	-27.292	1.00	80.01	A16S
ATOM	19352	C5*	G	A	927	197.863	117.669	-26.592	1.00	80.01	A16S
ATOM	19353	C4*	G	A	927	197.020	118.460	-27.565	1.00	80.01	A16S
ATOM	19354	O4*	G	A	927	195.664	118.467	-27.061	1.00	80.01	A16S
ATOM	19355	C1*	G	A	927	195.072	119.737	-27.276	1.00	80.01	A16S
ATOM	19356	N9	G	A	927	194.915	120.379	-25.977	1.00	69.70	A16S
ATOM	19357	C4	G	A	927	194.184	121.496	-25.723	1.00	69.70	A16S
ATOM	19358	N3	G	A	927	193.444	122.164	-26.622	1.00	69.70	A16S
ATOM	19359	C2	G	A	927	192.888	123.231	-26.097	1.00	69.70	A16S
ATOM	19360	N2	G	A	927	192.129	124.015	-26.868	1.00	69.70	A16S
ATOM	19361	N1	G	A	927	193.039	123.610	-24.782	1.00	69.70	A16S
ATOM	19362	C6	G	A	927	193.798	122.930	-23.834	1.00	69.70	A16S
ATOM	19363	O6	G	A	927	193.877	123.358	-22.665	1.00	69.70	A16S
ATOM	19364	C5	G	A	927	194.404	121.784	-24.394	1.00	69.70	A16S
ATOM	19365	N7	G	A	927	195.237	120.839	-23.817	1.00	69.70	A16S
ATOM	19366	C8	G	A	927	195.506	120.019	-24.789	1.00	69.70	A16S
ATOM	19367	C2*	G	A	927	196.039	120.553	-28.129	1.00	80.01	A16S
ATOM	19368	O2*	G	A	927	195.703	120.401	-29.492	1.00	80.01	A16S
ATOM	19369	C3*	G	A	927	197.373	119.931	-27.746	1.00	80.01	A16S
ATOM	19370	O3*	G	A	927	198.346	120.168	-28.738	1.00	80.01	A16S
ATOM	19371	P	G	A	928	199.160	121.552	-28.727	1.00	68.55	A16S
ATOM	19372	O1P	G	A	928	199.972	121.581	-29.964	1.00	76.28	A16S
ATOM	19373	O2P	G	A	928	199.834	121.681	-27.402	1.00	76.28	A16S
ATOM	19374	O5*	G	A	928	198.043	122.679	-28.893	1.00	68.55	A16S
ATOM	19375	C5*	G	A	928	197.424	122.896	-30.171	1.00	68.55	A16S
ATOM	19376	C4*	G	A	928	196.578	124.153	-30.171	1.00	68.55	A16S
ATOM	19377	O4*	G	A	928	195.437	124.004	-29.283	1.00	68.55	A16S
ATOM	19378	C1*	G	A	928	195.115	125.255	-28.693	1.00	68.55	A16S
ATOM	19379	N9	G	A	928	195.387	125.167	-27.256	1.00	76.28	A16S
ATOM	19380	C4	G	A	928	195.029	126.080	-26.287	1.00	76.28	A16S
ATOM	19381	N3	G	A	928	194.323	127.216	-26.482	1.00	76.28	A16S
ATOM	19382	C2	G	A	928	194.134	127.883	-25.350	1.00	76.28	A16S
ATOM	19383	N2	G	A	928	193.417	129.018	-25.350	1.00	76.28	A16S
ATOM	19384	N1	G	A	928	194.626	127.480	-24.133	1.00	76.28	A16S
ATOM	19385	C6	G	A	928	195.362	126.320	-23.914	1.00	76.28	A16S
ATOM	19386	O6	G	A	928	195.764	126.051	-22.781	1.00	76.28	A16S
ATOM	19387	C5	G	A	928	195.549	125.584	-25.109	1.00	76.28	A16S
ATOM	19388	N7	G	A	928	196.200	124.379	-25.324	1.00	76.28	A16S
ATOM	19389	C8	G	A	928	196.077	124.170	-26.605	1.00	76.28	A16S
ATOM	19390	C2*	G	A	928	196.019	126.290	-29.359	1.00	68.55	A16S
ATOM	19391	O2*	G	A	928	195.365	126.781	-30.513	1.00	68.55	A16S
ATOM	19392	C3*	G	A	928	197.230	125.445	-29.724	1.00	68.55	A16S
ATOM	19393	O3*	G	A	928	198.000	126.048	-30.745	1.00	68.55	A16S
ATOM	19394	P	G	A	929	199.200	127.043	-30.341	1.00	84.15	A16S
ATOM	19395	O1P	G	A	929	199.862	127.510	-31.589	1.00	77.01	A16S
ATOM	19396	O2P	G	A	929	200.019	126.411	-29.276	1.00	77.01	A16S
ATOM	19397	O5*	G	A	929	198.440	128.291	-29.725	1.00	84.15	A16S



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ATOM	19398	C5*	G	A	929	197.515	129.020	-30.527	1.00	84.15	A16S
ATOM	19399	C4*	G	A	929	196.982	130.192	-29.762	1.00	84.15	A16S
ATOM	19400	O4*	G	A	929	196.139	129.728	-28.683	1.00	84.15	A16S
ATOM	19401	C1*	G	A	929	196.259	130.607	-27.585	1.00	84.15	A16S
ATOM	19402	N9	G	A	929	196.722	129.846	-26.433	1.00	77.01	A16S
ATOM	19403	C4	G	A	929	196.665	130.272	-25.134	1.00	77.01	A16S
ATOM	19404	N3	G	A	929	196.181	131.461	-24.717	1.00	77.01	A16S
ATOM	19405	C2	G	A	929	196.243	131.583	-23.406	1.00	77.01	A16S
ATOM	19406	N2	G	A	929	195.801	132.706	-22.829	1.00	77.01	A16S
ATOM	19407	N1	G	A	929	196.742	130.614	-22.568	1.00	77.01	A16S
ATOM	19408	C6	G	A	929	197.252	129.388	-22.978	1.00	77.01	A16S
ATOM	19409	O6	G	A	929	197.685	128.602	-22.147	1.00	77.01	A16S
ATOM	19410	C5	G	A	929	197.190	129.240	-24.383	1.00	77.01	A16S
ATOM	19411	N7	G	A	929	197.578	128.184	-25.200	1.00	77.01	A16S
ATOM	19412	C8	G	A	929	197.284	128.589	-26.409	1.00	77.01	A16S
ATOM	19413	C2*	G	A	929	197.231	131.717	-27.971	1.00	84.15	A16S
ATOM	19414	O2*	G	A	929	196.514	132.831	-28.461	1.00	84.15	A16S
ATOM	19415	C3*	G	A	929	198.027	131.045	-29.074	1.00	84.15	A16S
ATOM	19416	O3*	G	A	929	198.607	131.980	-29.950	1.00	84.15	A16S
ATOM	19417	P	C	A	930	200.080	132.517	-29.640	1.00	86.61	A16S
ATOM	19418	O1P	C	A	930	200.363	133.463	-30.750	1.00	71.19	A16S
ATOM	19419	O2P	C	A	930	201.010	131.369	-29.376	1.00	71.19	A16S
ATOM	19420	O5*	C	A	930	199.899	133.323	-28.279	1.00	86.61	A16S
ATOM	19421	C5*	C	A	930	199.034	134.460	-28.229	1.00	86.61	A16S
ATOM	19422	C4*	C	A	930	199.016	135.057	-26.845	1.00	86.61	A16S
ATOM	19423	O4*	C	A	930	198.282	134.218	-25.922	1.00	86.61	A16S
ATOM	19424	C1*	C	A	930	198.779	134.421	-24.613	1.00	86.61	A16S
ATOM	19425	N1	C	A	930	199.250	133.146	-24.068	1.00	71.19	A16S
ATOM	19426	C6	C	A	930	199.573	132.102	-24.881	1.00	71.19	A16S
ATOM	19427	C2	C	A	930	199.378	133.025	-22.683	1.00	71.19	A16S
ATOM	19428	O2	C	A	930	199.074	133.993	-21.967	1.00	71.19	A16S
ATOM	19429	N3	C	A	930	199.828	131.865	-22.159	1.00	71.19	A16S
ATOM	19430	C4	C	A	930	200.140	130.855	-22.963	1.00	71.19	A16S
ATOM	19431	N4	C	A	930	200.568	129.733	-22.410	1.00	71.19	A16S
ATOM	19432	C5	C	A	930	200.020	130.950	-24.373	1.00	71.19	A16S
ATOM	19433	C2*	C	A	930	199.942	135.401	-24.701	1.00	86.61	A16S
ATOM	19434	O2*	C	A	930	199.492	136.700	-24.363	1.00	86.61	A16S
ATOM	19435	C3*	C	A	930	200.349	135.265	-26.160	1.00	86.61	A16S
ATOM	19436	O3*	C	A	930	200.981	136.438	-26.604	1.00	86.61	A16S
ATOM	19437	P	C	A	931	202.560	136.627	-26.367	1.00	92.64	A16S
ATOM	19438	O1P	C	A	931	202.755	138.101	-26.593	1.00	64.63	A16S
ATOM	19439	O2P	C	A	931	203.325	135.636	-27.185	1.00	64.63	A16S
ATOM	19440	O5*	C	A	931	202.790	136.284	-24.822	1.00	92.64	A16S
ATOM	19441	C5*	C	A	931	202.346	137.202	-23.811	1.00	92.64	A16S
ATOM	19442	C4*	C	A	931	202.817	136.780	-22.443	1.00	92.64	A16S
ATOM	19443	O4*	C	A	931	202.182	135.549	-22.028	1.00	92.64	A16S
ATOM	19444	C1*	C	A	931	202.908	135.021	-20.938	1.00	92.64	A16S
ATOM	19445	N1	C	A	931	203.141	133.583	-21.115	1.00	64.63	A16S
ATOM	19446	C6	C	A	931	203.151	132.991	-22.349	1.00	64.63	A16S
ATOM	19447	C2	C	A	931	203.407	132.824	-19.968	1.00	64.63	A16S
ATOM	19448	O2	C	A	931	203.327	133.375	-18.854	1.00	64.63	A16S
ATOM	19449	N3	C	A	931	203.740	131.522	-20.098	1.00	64.63	A16S
ATOM	19450	C4	C	A	931	203.799	130.970	-21.304	1.00	64.63	A16S
ATOM	19451	N4	C	A	931	204.186	129.712	-21.379	1.00	64.63	A16S
ATOM	19452	C5	C	A	931	203.476	131.695	-22.487	1.00	64.63	A16S
ATOM	19453	C2*	C	A	931	204.248	135.748	-20.884	1.00	92.64	A16S
ATOM	19454	O2*	C	A	931	204.244	136.633	-19.786	1.00	92.64	A16S
ATOM	19455	C3*	C	A	931	204.283	136.462	-22.232	1.00	92.64	A16S
ATOM	19456	O3*	C	A	931	205.114	137.614	-22.165	1.00	92.64	A16S
ATOM	19457	P	C	A	932	206.699	137.440	-21.891	1.00	65.94	A16S
ATOM	19458	O1P	C	A	932	207.402	138.608	-22.519	1.00	67.80	A16S
ATOM	19459	O2P	C	A	932	207.135	136.044	-22.236	1.00	67.80	A16S
ATOM	19460	O5*	C	A	932	206.791	137.575	-20.307	1.00	65.94	A16S
ATOM	19461	C5*	C	A	932	207.907	137.056	-19.601	1.00	65.94	A16S
ATOM	19462	C4*	C	A	932	207.487	136.622	-18.236	1.00	65.94	A16S
ATOM	19463	O4*	C	A	932	206.466	135.608	-18.351	1.00	65.94	A16S
ATOM	19464	C1*	C	A	932	206.671	134.611	-17.363	1.00	65.94	A16S
ATOM	19465	N1	C	A	932	206.907	133.314	-18.039	1.00	67.80	A16S
ATOM	19466	C6	C	A	932	206.798	133.192	-19.402	1.00	67.80	A16S
ATOM	19467	C2	C	A	932	207.280	132.186	-17.249	1.00	67.80	A16S
ATOM	19468	O2	C	A	932	207.335	132.301	-16.016	1.00	67.80	A16S
ATOM	19469	N3	C	A	932	207.566	131.012	-17.863	1.00	67.80	A16S
ATOM	19470	C4	C	A	932	207.489	130.919	-19.194	1.00	67.80	A16S
ATOM	19471	N4	C	A	932	207.817	129.756	-19.745	1.00	67.80	A16S
ATOM	19472	C5	C	A	932	207.077	132.025	-20.016	1.00	67.80	A16S
ATOM	19473	C2*	C	A	932	207.876	135.042	-16.516	1.00	65.94	A16S
ATOM	19474	O2*	C	A	932	207.461	135.704	-15.347	1.00	65.94	A16S



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ATOM	19475	C3*	C	A	932	208.609	135.957	-17.476	1.00	65.94	A16S
ATOM	19476	O3*	C	A	932	209.427	136.921	-16.845	1.00	65.94	A16S
ATOM	19477	P	G	A	933	211.001	136.970	-17.186	1.00	76.63	A16S
ATOM	19478	O1P	G	A	933	211.471	138.313	-16.756	1.00	61.72	A16S
ATOM	19479	O2P	G	A	933	211.290	136.511	-18.587	1.00	61.72	A16S
ATOM	19480	O5*	G	A	933	211.599	135.908	-16.170	1.00	76.63	A16S
ATOM	19481	C5*	G	A	933	211.550	136.170	-14.784	1.00	76.63	A16S
ATOM	19482	C4*	G	A	933	211.866	134.932	-14.029	1.00	76.63	A16S
ATOM	19483	O4*	G	A	933	210.919	133.919	-14.422	1.00	76.63	A16S
ATOM	19484	C1*	G	A	933	211.530	132.646	-14.325	1.00	76.63	A16S
ATOM	19485	N9	G	A	933	211.340	131.917	-15.580	1.00	61.72	A16S
ATOM	19486	C4	G	A	933	211.288	130.552	-15.705	1.00	61.72	A16S
ATOM	19487	N3	G	A	933	211.403	129.662	-14.694	1.00	61.72	A16S
ATOM	19488	C2	G	A	933	211.307	128.412	-15.124	1.00	61.72	A16S
ATOM	19489	N2	G	A	933	211.400	127.401	-14.252	1.00	61.72	A16S
ATOM	19490	N1	G	A	933	211.115	128.061	-16.443	1.00	61.72	A16S
ATOM	19491	C6	G	A	933	211.006	128.960	-17.501	1.00	61.72	A16S
ATOM	19492	O6	G	A	933	210.857	128.540	-18.648	1.00	61.72	A16S
ATOM	19493	C5	G	A	933	211.099	130.310	-17.054	1.00	61.72	A16S
ATOM	19494	N7	G	A	933	211.034	131.501	-17.766	1.00	61.72	A16S
ATOM	19495	C8	G	A	933	211.180	132.428	-16.854	1.00	61.72	A16S
ATOM	19496	C2*	G	A	933	212.992	132.856	-13.920	1.00	76.63	A16S
ATOM	19497	O2*	G	A	933	213.121	132.644	-12.525	1.00	76.63	A16S
ATOM	19498	C3*	G	A	933	213.219	134.311	-14.321	1.00	76.63	A16S
ATOM	19499	O3*	G	A	933	214.264	134.943	-13.581	1.00	76.63	A16S
ATOM	19500	P	C	A	934	215.532	135.571	-14.360	1.00	70.85	A16S
ATOM	19501	O1P	C	A	934	216.324	136.346	-13.370	1.00	84.79	A16S
ATOM	19502	O2P	C	A	934	215.050	136.242	-15.603	1.00	84.79	A16S
ATOM	19503	O5*	C	A	934	216.401	134.294	-14.754	1.00	70.85	A16S
ATOM	19504	C5*	C	A	934	216.921	133.407	-13.739	1.00	70.85	A16S
ATOM	19505	C4*	C	A	934	217.482	132.162	-14.378	1.00	70.85	A16S
ATOM	19506	O4*	C	A	934	218.543	132.539	-15.297	1.00	70.85	A16S
ATOM	19507	C1*	C	A	934	219.622	131.657	-15.117	1.00	70.85	A16S
ATOM	19508	N1	C	A	934	220.843	132.251	-15.683	1.00	84.79	A16S
ATOM	19509	C6	C	A	934	221.786	132.842	-14.890	1.00	84.79	A16S
ATOM	19510	C2	C	A	934	221.030	132.184	-17.073	1.00	84.79	A16S
ATOM	19511	O2	C	A	934	220.147	131.655	-17.780	1.00	84.79	A16S
ATOM	19512	N3	C	A	934	222.160	132.695	-17.612	1.00	84.79	A16S
ATOM	19513	C4	C	A	934	223.075	133.263	-16.826	1.00	84.79	A16S
ATOM	19514	N4	C	A	934	224.172	133.761	-17.404	1.00	84.79	A16S
ATOM	19515	C5	C	A	934	222.906	133.354	-15.414	1.00	84.79	A16S
ATOM	19516	C2*	C	A	934	219.581	131.272	-13.640	1.00	70.85	A16S
ATOM	19517	O2*	C	A	934	220.295	130.068	-13.422	1.00	70.85	A16S
ATOM	19518	C3*	C	A	934	218.076	131.100	-13.443	1.00	70.85	A16S
ATOM	19519	O3*	C	A	934	217.745	129.793	-13.937	1.00	70.85	A16S
ATOM	19520	P	A	A	935	216.411	129.047	-13.429	1.00	84.23	A16S
ATOM	19521	O1P	A	A	935	215.379	130.096	-13.215	1.00	59.43	A16S
ATOM	19522	O2P	A	A	935	216.768	128.115	-12.313	1.00	59.43	A16S
ATOM	19523	O5*	A	A	935	215.935	128.208	-14.697	1.00	84.23	A16S
ATOM	19524	C5*	A	A	935	215.303	126.925	-14.545	1.00	84.23	A16S
ATOM	19525	C4*	A	A	935	214.976	126.351	-15.897	1.00	84.23	A16S
ATOM	19526	O4*	A	A	935	213.856	127.070	-16.462	1.00	84.23	A16S
ATOM	19527	C1*	A	A	935	214.040	127.229	-17.854	1.00	84.23	A16S
ATOM	19528	N9	A	A	935	214.111	128.657	-18.142	1.00	59.43	A16S
ATOM	19529	C4	A	A	935	214.021	129.255	-19.377	1.00	59.43	A16S
ATOM	19530	N3	A	A	935	213.846	128.655	-20.564	1.00	59.43	A16S
ATOM	19531	C2	A	A	935	213.829	129.552	-21.547	1.00	59.43	A16S
ATOM	19532	N1	A	A	935	213.953	130.885	-21.489	1.00	59.43	A16S
ATOM	19533	C6	A	A	935	214.117	131.464	-20.285	1.00	59.43	A16S
ATOM	19534	N6	A	A	935	214.226	132.800	-20.231	1.00	59.43	A16S
ATOM	19535	C5	A	A	935	214.159	130.614	-19.152	1.00	59.43	A16S
ATOM	19536	N7	A	A	935	214.326	130.868	-17.797	1.00	59.43	A16S
ATOM	19537	C8	A	A	935	214.291	129.678	-17.245	1.00	59.43	A16S
ATOM	19538	C2*	A	A	935	215.325	126.500	-18.240	1.00	84.23	A16S
ATOM	19539	O2*	A	A	935	214.980	125.210	-18.686	1.00	84.23	A16S
ATOM	19540	C3*	A	A	935	216.089	126.490	-16.922	1.00	84.23	A16S
ATOM	19541	O3*	A	A	935	217.052	125.432	-16.816	1.00	84.23	A16S
ATOM	19542	P	C	A	936	218.567	125.658	-17.348	1.00	69.14	A16S
ATOM	19543	O1P	C	A	936	219.334	124.422	-16.976	1.00	65.89	A16S
ATOM	19544	O2P	C	A	936	219.075	126.994	-16.886	1.00	65.89	A16S
ATOM	19545	O5*	C	A	936	218.385	125.704	-18.937	1.00	69.14	A16S
ATOM	19546	C5*	C	A	936	217.965	124.522	-19.646	1.00	69.14	A16S
ATOM	19547	C4*	C	A	936	217.647	124.830	-21.087	1.00	69.14	A16S
ATOM	19548	O4*	C	A	936	216.562	125.786	-21.152	1.00	69.14	A16S
ATOM	19549	C1*	C	A	936	216.689	126.569	-22.327	1.00	69.14	A16S
ATOM	19550	N1	C	A	936	216.828	127.994	-21.970	1.00	65.89	A16S
ATOM	19551	C6	C	A	936	217.132	128.392	-20.697	1.00	65.89	A16S



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ATOM	19552	C2	C	A	936	216.677	128.944	-22.989	1.00	65.89	A16S
ATOM	19553	O2	C	A	936	216.336	128.557	-24.118	1.00	65.89	A16S
ATOM	19554	N3	C	A	936	216.900	130.249	-22.720	1.00	65.89	A16S
ATOM	19555	C4	C	A	936	217.243	130.623	-21.488	1.00	65.89	A16S
ATOM	19556	N4	C	A	936	217.515	131.917	-21.280	1.00	65.89	A16S
ATOM	19557	C5	C	A	936	217.343	129.684	-20.414	1.00	65.89	A16S
ATOM	19558	C2*	C	A	936	217.943	126.102	-23.064	1.00	69.14	A16S
ATOM	19559	O2*	C	A	936	217.594	125.230	-24.125	1.00	69.14	A16S
ATOM	19560	C3*	C	A	936	218.739	125.454	-21.938	1.00	69.14	A16S
ATOM	19561	O3*	C	A	936	219.684	124.518	-22.438	1.00	69.14	A16S
ATOM	19562	P	A	A	937	221.176	125.012	-22.797	1.00	71.13	A16S
ATOM	19563	O1P	A	A	937	221.804	123.860	-23.490	1.00	77.78	A16S
ATOM	19564	O2P	A	A	937	221.831	125.580	-21.580	1.00	77.78	A16S
ATOM	19565	O5*	A	A	937	220.976	126.164	-23.887	1.00	71.13	A16S
ATOM	19566	C5*	A	A	937	220.604	125.827	-25.244	1.00	71.13	A16S
ATOM	19567	C4*	A	A	937	220.347	127.071	-26.063	1.00	71.13	A16S
ATOM	19568	O4*	A	A	937	219.307	127.851	-25.414	1.00	71.13	A16S
ATOM	19569	C1*	A	A	937	219.578	129.242	-25.556	1.00	71.13	A16S
ATOM	19570	N9	A	A	937	219.973	129.791	-24.248	1.00	77.78	A16S
ATOM	19571	C4	A	A	937	220.055	131.131	-23.929	1.00	77.78	A16S
ATOM	19572	N3	A	A	937	219.790	132.183	-24.728	1.00	77.78	A16S
ATOM	19573	C2	A	A	937	219.994	133.334	-24.081	1.00	77.78	A16S
ATOM	19574	N1	A	A	937	220.391	133.536	-22.824	1.00	77.78	A16S
ATOM	19575	C6	A	A	937	220.654	132.458	-22.050	1.00	77.78	A16S
ATOM	19576	N6	A	A	937	221.053	132.659	-20.798	1.00	77.78	A16S
ATOM	19577	C5	A	A	937	220.489	131.181	-22.617	1.00	77.78	A16S
ATOM	19578	N7	A	A	937	220.689	129.900	-22.113	1.00	77.78	A16S
ATOM	19579	C8	A	A	937	220.364	129.114	-23.109	1.00	77.78	A16S
ATOM	19580	C2*	A	A	937	220.747	129.351	-26.525	1.00	71.13	A16S
ATOM	19581	O2*	A	A	937	220.218	129.383	-27.833	1.00	71.13	A16S
ATOM	19582	C3*	A	A	937	221.493	128.059	-26.224	1.00	71.13	A16S
ATOM	19583	O3*	A	A	937	222.430	127.719	-27.236	1.00	71.13	A16S
ATOM	19584	P	A	A	938	224.009	127.848	-26.922	1.00	75.05	A16S
ATOM	19585	O1P	A	A	938	224.782	127.315	-28.086	1.00	67.70	A16S
ATOM	19586	O2P	A	A	938	224.236	127.279	-25.554	1.00	67.70	A16S
ATOM	19587	O5*	A	A	938	224.277	129.414	-26.846	1.00	75.05	A16S
ATOM	19588	C5*	A	A	938	224.383	130.203	-28.033	1.00	75.05	A16S
ATOM	19589	C4*	A	A	938	224.796	131.599	-27.670	1.00	75.05	A16S
ATOM	19590	O4*	A	A	938	223.792	132.130	-26.772	1.00	75.05	A16S
ATOM	19591	C1*	A	A	938	224.411	132.845	-25.716	1.00	75.05	A16S
ATOM	19592	N9	A	A	938	224.198	132.074	-24.493	1.00	67.70	A16S
ATOM	19593	C4	A	A	938	224.347	132.501	-23.198	1.00	67.70	A16S
ATOM	19594	N3	A	A	938	224.722	133.716	-22.776	1.00	67.70	A16S
ATOM	19595	C2	A	A	938	224.738	133.763	-21.447	1.00	67.70	A16S
ATOM	19596	N1	A	A	938	224.447	132.808	-20.566	1.00	67.70	A16S
ATOM	19597	C6	A	A	938	224.083	131.594	-21.029	1.00	67.70	A16S
ATOM	19598	N6	A	A	938	223.796	130.626	-20.158	1.00	67.70	A16S
ATOM	19599	C5	A	A	938	224.026	131.415	-22.407	1.00	67.70	A16S
ATOM	19600	N7	A	A	938	223.691	130.317	-23.183	1.00	67.70	A16S
ATOM	19601	C8	A	A	938	223.808	130.759	-24.410	1.00	67.70	A16S
ATOM	19602	C2*	A	A	938	225.897	132.946	-26.054	1.00	75.05	A16S
ATOM	19603	O2*	A	A	938	226.154	134.126	-26.798	1.00	75.05	A16S
ATOM	19604	C3*	A	A	938	226.095	131.688	-26.883	1.00	75.05	A16S
ATOM	19605	O3*	A	A	938	227.239	131.775	-27.711	1.00	75.05	A16S
ATOM	19606	P	G	A	939	228.556	130.960	-27.312	1.00	85.41	A16S
ATOM	19607	O1P	G	A	939	229.554	131.334	-28.330	1.00	71.45	A16S
ATOM	19608	O2P	G	A	939	228.186	129.528	-27.121	1.00	71.45	A16S
ATOM	19609	O5*	G	A	939	228.991	131.547	-25.892	1.00	85.41	A16S
ATOM	19610	C5*	G	A	939	229.381	132.927	-25.744	1.00	85.41	A16S
ATOM	19611	C4*	G	A	939	229.586	133.298	-24.273	1.00	85.41	A16S
ATOM	19612	O4*	G	A	939	228.355	133.142	-23.515	1.00	85.41	A16S
ATOM	19613	C1*	G	A	939	228.671	132.995	-22.141	1.00	85.41	A16S
ATOM	19614	N9	G	A	939	227.928	131.874	-21.578	1.00	71.45	A16S
ATOM	19615	C4	G	A	939	227.613	131.713	-20.256	1.00	71.45	A16S
ATOM	19616	N3	G	A	939	227.930	132.566	-19.261	1.00	71.45	A16S
ATOM	19617	C2	G	A	939	227.473	132.154	-18.090	1.00	71.45	A16S
ATOM	19618	N2	G	A	939	227.677	132.908	-16.997	1.00	71.45	A16S
ATOM	19619	N1	G	A	939	226.778	130.980	-17.906	1.00	71.45	A16S
ATOM	19620	C6	G	A	939	226.448	130.082	-18.915	1.00	71.45	A16S
ATOM	19621	O6	G	A	939	225.823	129.046	-18.642	1.00	71.45	A16S
ATOM	19622	C5	G	A	939	226.918	130.528	-20.185	1.00	71.45	A16S
ATOM	19623	N7	G	A	939	226.792	129.957	-21.442	1.00	71.45	A16S
ATOM	19624	C8	G	A	939	227.410	130.787	-22.236	1.00	71.45	A16S
ATOM	19625	C2*	G	A	939	230.187	132.853	-22.006	1.00	85.41	A16S
ATOM	19626	O2*	G	A	939	230.711	134.075	-21.529	1.00	85.41	A16S
ATOM	19627	C3*	G	A	939	230.621	132.550	-23.438	1.00	85.41	A16S
ATOM	19628	O3*	G	A	939	231.929	133.067	-23.632	1.00	85.41	A16S



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ATOM	19629	P	C	A	940	233.202	132.153	-23.288	1.00	70.35	A16S
ATOM	19630	O1P	C	A	940	234.379	132.819	-23.899	1.00	83.51	A16S
ATOM	19631	O2P	C	A	940	232.886	130.746	-23.632	1.00	83.51	A16S
ATOM	19632	O5*	C	A	940	233.360	132.225	-21.709	1.00	70.35	A16S
ATOM	19633	C5*	C	A	940	233.966	133.366	-21.099	1.00	70.35	A16S
ATOM	19634	C4*	C	A	940	233.808	133.306	-19.602	1.00	70.35	A16S
ATOM	19635	O4*	C	A	940	232.400	133.318	-19.238	1.00	70.35	A16S
ATOM	19636	C1*	C	A	940	232.214	132.579	-18.045	1.00	70.35	A16S
ATOM	19637	N1	C	A	940	231.281	131.481	-18.304	1.00	83.51	A16S
ATOM	19638	C6	C	A	940	231.047	131.039	-19.575	1.00	83.51	A16S
ATOM	19639	C2	C	A	940	230.641	130.874	-17.213	1.00	83.51	A16S
ATOM	19640	O2	C	A	940	230.858	131.305	-16.065	1.00	83.51	A16S
ATOM	19641	N3	C	A	940	229.810	129.836	-17.434	1.00	83.51	A16S
ATOM	19642	C4	C	A	940	229.606	129.400	-18.677	1.00	83.51	A16S
ATOM	19643	N4	C	A	940	228.797	128.354	-18.842	1.00	83.51	A16S
ATOM	19644	C5	C	A	940	230.228	130.012	-19.806	1.00	83.51	A16S
ATOM	19645	C2*	C	A	940	233.575	132.037	-17.616	1.00	70.35	A16S
ATOM	19646	O2*	C	A	940	234.140	132.880	-16.627	1.00	70.35	A16S
ATOM	19647	C3*	C	A	940	234.333	132.056	-18.934	1.00	70.35	A16S
ATOM	19648	O3*	C	A	940	235.720	132.081	-18.741	1.00	70.35	A16S
ATOM	19649	P	G	A	941	236.500	130.690	-18.630	1.00	62.86	A16S
ATOM	19650	O1P	G	A	941	237.971	130.957	-18.549	1.00	83.25	A16S
ATOM	19651	O2P	G	A	941	235.962	129.818	-19.721	1.00	83.25	A16S
ATOM	19652	O5*	G	A	941	236.037	130.109	-17.219	1.00	62.86	A16S
ATOM	19653	C5*	G	A	941	236.497	130.717	-16.001	1.00	62.86	A16S
ATOM	19654	C4*	G	A	941	235.769	130.153	-14.809	1.00	62.86	A16S
ATOM	19655	O4*	G	A	941	234.346	130.400	-14.944	1.00	62.86	A16S
ATOM	19656	C1*	G	A	941	233.626	129.375	-14.274	1.00	62.86	A16S
ATOM	19657	N9	G	A	941	232.773	128.680	-15.229	1.00	83.25	A16S
ATOM	19658	C4	G	A	941	231.725	127.851	-14.916	1.00	83.25	A16S
ATOM	19659	N3	G	A	941	231.260	127.595	-13.677	1.00	83.25	A16S
ATOM	19660	C2	G	A	941	230.269	126.723	-13.695	1.00	83.25	A16S
ATOM	19661	N2	G	A	941	229.672	126.363	-12.557	1.00	83.25	A16S
ATOM	19662	N1	G	A	941	229.782	126.144	-14.834	1.00	83.25	A16S
ATOM	19663	C6	G	A	941	230.241	126.400	-16.121	1.00	83.25	A16S
ATOM	19664	O6	G	A	941	229.723	125.824	-17.088	1.00	83.25	A16S
ATOM	19665	C5	G	A	941	231.296	127.338	-16.118	1.00	83.25	A16S
ATOM	19666	N7	G	A	941	232.030	127.867	-17.170	1.00	83.25	A16S
ATOM	19667	C8	G	A	941	232.886	128.665	-16.596	1.00	83.25	A16S
ATOM	19668	C2*	G	A	941	234.647	128.389	-13.706	1.00	62.86	A16S
ATOM	19669	O2*	G	A	941	234.902	128.678	-12.351	1.00	62.86	A16S
ATOM	19670	C3*	G	A	941	235.861	128.657	-14.579	1.00	62.86	A16S
ATOM	19671	O3*	G	A	941	237.031	128.281	-13.886	1.00	62.86	A16S
ATOM	19672	P	G	A	942	237.575	126.770	-14.010	1.00	70.70	A16S
ATOM	19673	O1P	G	A	942	238.785	126.690	-13.132	1.00	90.09	A16S
ATOM	19674	O2P	G	A	942	237.683	126.422	-15.451	1.00	90.09	A16S
ATOM	19675	O5*	G	A	942	236.428	125.857	-13.371	1.00	70.70	A16S
ATOM	19676	C5*	G	A	942	236.268	125.814	-11.941	1.00	70.70	A16S
ATOM	19677	C4*	G	A	942	235.027	125.044	-11.524	1.00	70.70	A16S
ATOM	19678	O4*	G	A	942	233.875	125.379	-12.339	1.00	70.70	A16S
ATOM	19679	C1*	G	A	942	232.853	124.441	-12.069	1.00	70.70	A16S
ATOM	19680	N9	G	A	942	232.244	123.962	-13.304	1.00	90.09	A16S
ATOM	19681	C4	G	A	942	231.271	122.984	-13.380	1.00	90.09	A16S
ATOM	19682	N3	G	A	942	230.673	122.371	-12.328	1.00	90.09	A16S
ATOM	19683	C2	G	A	942	229.809	121.441	-12.715	1.00	90.09	A16S
ATOM	19684	N2	G	A	942	229.108	120.752	-11.800	1.00	90.09	A16S
ATOM	19685	N1	G	A	942	229.567	121.121	-14.025	1.00	90.09	A16S
ATOM	19686	C6	G	A	942	230.168	121.731	-15.123	1.00	90.09	A16S
ATOM	19687	O6	G	A	942	229.885	121.347	-16.269	1.00	90.09	A16S
ATOM	19688	C5	G	A	942	231.085	122.759	-14.722	1.00	90.09	A16S
ATOM	19689	N7	G	A	942	231.874	123.618	-15.479	1.00	90.09	A16S
ATOM	19690	C8	G	A	942	232.534	124.320	-14.595	1.00	90.09	A16S
ATOM	19691	C2*	G	A	942	233.509	123.277	-11.330	1.00	70.70	A16S
ATOM	19692	O2*	G	A	942	233.159	123.416	-9.966	1.00	70.70	A16S
ATOM	19693	C3*	G	A	942	234.995	123.528	-11.566	1.00	70.70	A16S
ATOM	19694	O3*	G	A	942	235.731	122.920	-10.506	1.00	70.70	A16S
ATOM	19695	P	U	A	943	236.033	121.331	-10.552	1.00	61.89	A16S
ATOM	19696	O1P	U	A	943	236.886	120.914	-9.390	1.00	77.35	A16S
ATOM	19697	O2P	U	A	943	236.465	120.999	-11.948	1.00	77.35	A16S
ATOM	19698	O5*	U	A	943	234.612	120.647	-10.311	1.00	61.89	A16S
ATOM	19699	C5*	U	A	943	234.005	120.648	-9.010	1.00	61.89	A16S
ATOM	19700	C4*	U	A	943	232.840	119.699	-8.978	1.00	61.89	A16S
ATOM	19701	O4*	U	A	943	231.837	120.129	-9.930	1.00	61.89	A16S
ATOM	19702	C1*	U	A	943	231.234	118.996	-10.530	1.00	61.89	A16S
ATOM	19703	N1	U	A	943	231.530	119.019	-11.974	1.00	77.35	A16S
ATOM	19704	C6	U	A	943	232.438	119.908	-12.501	1.00	77.35	A16S
ATOM	19705	C2	U	A	943	230.877	118.102	-12.798	1.00	77.35	A16S



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ATOM	19706	O2	U	A	943	230.054	117.294	-12.391	1.00	77.35	A16S
ATOM	19707	N3	U	A	943	231.230	118.164	-14.122	1.00	77.35	A16S
ATOM	19708	C4	U	A	943	232.134	119.018	-14.696	1.00	77.35	A16S
ATOM	19709	O4	U	A	943	232.380	118.913	-15.891	1.00	77.35	A16S
ATOM	19710	C5	U	A	943	232.748	119.936	-13.794	1.00	77.35	A16S
ATOM	19711	C2*	U	A	943	231.822	117.755	-9.855	1.00	61.89	A16S
ATOM	19712	O2*	U	A	943	230.977	117.349	-8.799	1.00	61.89	A16S
ATOM	19713	C3*	U	A	943	233.163	118.274	-9.373	1.00	61.89	A16S
ATOM	19714	O3*	U	A	943	233.650	117.530	-8.280	1.00	61.89	A16S
ATOM	19715	P	G	A	944	234.719	116.361	-8.536	1.00	64.62	A16S
ATOM	19716	O1P	G	A	944	234.967	115.699	-7.216	1.00	73.27	A16S
ATOM	19717	O2P	G	A	944	235.871	116.934	-9.311	1.00	73.27	A16S
ATOM	19718	O5*	G	A	944	233.933	115.332	-9.467	1.00	64.62	A16S
ATOM	19719	C5*	G	A	944	232.751	114.662	-8.999	1.00	64.62	A16S
ATOM	19720	C4*	G	A	944	232.281	113.651	-10.016	1.00	64.62	A16S
ATOM	19721	O4*	G	A	944	231.636	114.307	-11.134	1.00	64.62	A16S
ATOM	19722	C1*	G	A	944	232.005	113.674	-12.339	1.00	64.62	A16S
ATOM	19723	N9	G	A	944	232.752	114.665	-13.104	1.00	73.27	A16S
ATOM	19724	C4	G	A	944	232.969	114.705	-14.457	1.00	73.27	A16S
ATOM	19725	N3	G	A	944	232.525	113.815	-15.361	1.00	73.27	A16S
ATOM	19726	C2	G	A	944	232.880	114.153	-16.588	1.00	73.27	A16S
ATOM	19727	N2	G	A	944	232.507	113.407	-17.622	1.00	73.27	A16S
ATOM	19728	N1	G	A	944	233.626	115.255	-16.897	1.00	73.27	A16S
ATOM	19729	C6	G	A	944	234.105	116.174	-15.979	1.00	73.27	A16S
ATOM	19730	O6	G	A	944	234.787	117.132	-16.358	1.00	73.27	A16S
ATOM	19731	C5	G	A	944	233.716	115.845	-14.671	1.00	73.27	A16S
ATOM	19732	N7	G	A	944	233.960	116.505	-13.482	1.00	73.27	A16S
ATOM	19733	C8	G	A	944	233.377	115.769	-12.582	1.00	73.27	A16S
ATOM	19734	C2*	G	A	944	232.811	112.424	-11.965	1.00	64.62	A16S
ATOM	19735	O2*	G	A	944	231.932	111.330	-11.794	1.00	64.62	A16S
ATOM	19736	C3*	G	A	944	233.385	112.807	-10.611	1.00	64.62	A16S
ATOM	19737	O3*	G	A	944	233.565	111.662	-9.793	1.00	64.62	A16S
ATOM	19738	P	G	A	945	234.920	111.493	-8.941	1.00	66.07	A16S
ATOM	19739	O1P	G	A	945	234.666	110.483	-7.841	1.00	78.77	A16S
ATOM	19740	O2P	G	A	945	235.402	112.865	-8.594	1.00	78.77	A16S
ATOM	19741	O5*	G	A	945	235.947	110.809	-9.956	1.00	66.07	A16S
ATOM	19742	C5*	G	A	945	236.139	111.320	-11.289	1.00	66.07	A16S
ATOM	19743	C4*	G	A	945	237.368	110.702	-11.915	1.00	66.07	A16S
ATOM	19744	O4*	G	A	945	237.688	111.478	-13.099	1.00	66.07	A16S
ATOM	19745	C1*	G	A	945	238.992	112.001	-12.987	1.00	66.07	A16S
ATOM	19746	N9	G	A	945	238.856	113.417	-12.642	1.00	78.77	A16S
ATOM	19747	C4	G	A	945	239.844	114.270	-12.206	1.00	78.77	A16S
ATOM	19748	N3	G	A	945	241.142	113.952	-12.024	1.00	78.77	A16S
ATOM	19749	C2	G	A	945	241.838	114.978	-11.575	1.00	78.77	A16S
ATOM	19750	N2	G	A	945	243.144	114.828	-11.320	1.00	78.77	A16S
ATOM	19751	N1	G	A	945	241.301	116.224	-11.341	1.00	78.77	A16S
ATOM	19752	C6	G	A	945	239.969	116.571	-11.541	1.00	78.77	A16S
ATOM	19753	O6	G	A	945	239.590	117.725	-11.332	1.00	78.77	A16S
ATOM	19754	C5	G	A	945	239.215	115.482	-11.995	1.00	78.77	A16S
ATOM	19755	N7	G	A	945	237.867	115.397	-12.294	1.00	78.77	A16S
ATOM	19756	C8	G	A	945	237.699	114.161	-12.678	1.00	78.77	A16S
ATOM	19757	C2*	G	A	945	239.717	111.150	-11.934	1.00	66.07	A16S
ATOM	19758	O2*	G	A	945	240.273	109.994	-12.516	1.00	66.07	A16S
ATOM	19759	C3*	G	A	945	238.584	110.769	-11.001	1.00	66.07	A16S
ATOM	19760	O3*	G	A	945	238.826	109.479	-10.454	1.00	66.07	A16S
ATOM	19761	P	A	A	946	239.280	109.329	-8.919	1.00	71.07	A16S
ATOM	19762	O1P	A	A	946	239.682	107.916	-8.666	1.00	64.43	A16S
ATOM	19763	O2P	A	A	946	238.238	109.955	-8.054	1.00	64.43	A16S
ATOM	19764	O5*	A	A	946	240.595	110.216	-8.832	1.00	71.07	A16S
ATOM	19765	C5*	A	A	946	241.848	109.683	-9.255	1.00	71.07	A16S
ATOM	19766	C4*	A	A	946	242.968	110.549	-8.762	1.00	71.07	A16S
ATOM	19767	O4*	A	A	946	242.825	111.875	-9.319	1.00	71.07	A16S
ATOM	19768	C1*	A	A	946	243.308	112.825	-8.394	1.00	71.07	A16S
ATOM	19769	N9	A	A	946	242.296	113.872	-8.235	1.00	64.43	A16S
ATOM	19770	C4	A	A	946	242.436	115.056	-7.557	1.00	64.43	A16S
ATOM	19771	N3	A	A	946	243.501	115.472	-6.861	1.00	64.43	A16S
ATOM	19772	C2	A	A	946	243.282	116.677	-6.345	1.00	64.43	A16S
ATOM	19773	N1	A	A	946	242.203	117.458	-6.441	1.00	64.43	A16S
ATOM	19774	C6	A	A	946	241.150	117.013	-7.151	1.00	64.43	A16S
ATOM	19775	N6	A	A	946	240.074	117.800	-7.253	1.00	64.43	A16S
ATOM	19776	C5	A	A	946	241.255	115.741	-7.745	1.00	64.43	A16S
ATOM	19777	N7	A	A	946	240.373	114.993	-8.509	1.00	64.43	A16S
ATOM	19778	C8	A	A	946	241.033	113.893	-8.763	1.00	64.43	A16S
ATOM	19779	C2*	A	A	946	243.755	112.080	-7.131	1.00	71.07	A16S
ATOM	19780	O2*	A	A	946	245.153	111.902	-7.192	1.00	71.07	A16S
ATOM	19781	C3*	A	A	946	243.023	110.752	-7.261	1.00	71.07	A16S
ATOM	19782	O3*	A	A	946	243.757	109.686	-6.675	1.00	71.07	A16S



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ATOM	19783	P	G	A	947	243.297	109.082	-5.262	1.00	77.12	A16S
ATOM	19784	O1P	G	A	947	244.021	107.798	-5.039	1.00	74.06	A16S
ATOM	19785	O2P	G	A	947	241.805	109.090	-5.239	1.00	74.06	A16S
ATOM	19786	O5*	G	A	947	243.863	110.145	-4.218	1.00	77.12	A16S
ATOM	19787	C5*	G	A	947	245.280	110.199	-3.926	1.00	77.12	A16S
ATOM	19788	C4*	G	A	947	245.606	111.420	-3.107	1.00	77.12	A16S
ATOM	19789	O4*	G	A	947	245.376	112.611	-3.898	1.00	77.12	A16S
ATOM	19790	C1*	G	A	947	244.805	113.621	-3.087	1.00	77.12	A16S
ATOM	19791	N9	G	A	947	243.463	113.890	-3.584	1.00	74.06	A16S
ATOM	19792	C4	G	A	947	242.771	115.062	-3.453	1.00	74.06	A16S
ATOM	19793	N3	G	A	947	243.210	116.170	-2.831	1.00	74.06	A16S
ATOM	19794	C2	G	A	947	242.325	117.147	-2.900	1.00	74.06	A16S
ATOM	19795	N2	G	A	947	242.602	118.337	-2.370	1.00	74.06	A16S
ATOM	19796	N1	G	A	947	241.100	117.034	-3.503	1.00	74.06	A16S
ATOM	19797	C6	G	A	947	240.622	115.896	-4.132	1.00	74.06	A16S
ATOM	19798	O6	G	A	947	239.491	115.896	-4.630	1.00	74.06	A16S
ATOM	19799	C5	G	A	947	241.567	114.850	-4.093	1.00	74.06	A16S
ATOM	19800	N7	G	A	947	241.501	113.562	-4.605	1.00	74.06	A16S
ATOM	19801	C8	G	A	947	242.643	113.027	-4.274	1.00	74.06	A16S
ATOM	19802	C2*	G	A	947	244.754	113.101	-1.654	1.00	77.12	A16S
ATOM	19803	O2*	G	A	947	245.881	113.584	-0.947	1.00	77.12	A16S
ATOM	19804	C3*	G	A	947	244.731	111.596	-1.884	1.00	77.12	A16S
ATOM	19805	O3*	G	A	947	245.185	110.830	-0.783	1.00	77.12	A16S
ATOM	19806	P	C	A	948	244.101	110.210	0.222	1.00	72.60	A16S
ATOM	19807	O1P	C	A	948	244.784	109.320	1.200	1.00	86.28	A16S
ATOM	19808	O2P	C	A	948	243.011	109.648	-0.644	1.00	86.28	A16S
ATOM	19809	O5*	C	A	948	243.553	111.501	0.996	1.00	72.60	A16S
ATOM	19810	C5*	C	A	948	244.440	112.302	1.814	1.00	72.60	A16S
ATOM	19811	C4*	C	A	948	243.849	113.677	2.107	1.00	72.60	A16S
ATOM	19812	O4*	C	A	948	243.600	114.403	0.873	1.00	72.60	A16S
ATOM	19813	C1*	C	A	948	242.487	115.262	1.040	1.00	72.60	A16S
ATOM	19814	N1	C	A	948	241.430	114.864	0.099	1.00	86.28	A16S
ATOM	19815	C6	C	A	948	241.318	113.571	-0.338	1.00	86.28	A16S
ATOM	19816	C2	C	A	948	240.511	115.828	-0.312	1.00	86.28	A16S
ATOM	19817	O2	C	A	948	240.660	117.005	0.075	1.00	86.28	A16S
ATOM	19818	N3	C	A	948	239.482	115.459	-1.112	1.00	86.28	A16S
ATOM	19819	C4	C	A	948	239.357	114.185	-1.496	1.00	86.28	A16S
ATOM	19820	N4	C	A	948	238.300	113.853	-2.241	1.00	86.28	A16S
ATOM	19821	C5	C	A	948	240.303	113.192	-1.123	1.00	86.28	A16S
ATOM	19822	C2*	C	A	948	241.990	115.114	2.476	1.00	72.60	A16S
ATOM	19823	O2*	C	A	948	242.498	116.176	3.238	1.00	72.60	A16S
ATOM	19824	C3*	C	A	948	242.529	113.737	2.854	1.00	72.60	A16S
ATOM	19825	O3*	C	A	948	242.701	113.582	4.257	1.00	72.60	A16S
ATOM	19826	P	A	A	949	241.446	113.143	5.166	1.00	68.77	A16S
ATOM	19827	O1P	A	A	949	241.966	112.964	6.548	1.00	92.75	A16S
ATOM	19828	O2P	A	A	949	240.726	112.015	4.517	1.00	92.75	A16S
ATOM	19829	O5*	A	A	949	240.524	114.444	5.137	1.00	68.77	A16S
ATOM	19830	C5*	A	A	949	241.019	115.664	5.705	1.00	68.77	A16S
ATOM	19831	C4*	A	A	949	239.954	116.730	5.736	1.00	68.77	A16S
ATOM	19832	O4*	A	A	949	239.731	117.255	4.404	1.00	68.77	A16S
ATOM	19833	C1*	A	A	949	238.359	117.563	4.244	1.00	68.77	A16S
ATOM	19834	N9	A	A	949	237.816	116.612	3.274	1.00	92.75	A16S
ATOM	19835	C4	A	A	949	236.639	116.703	2.574	1.00	92.75	A16S
ATOM	19836	N3	A	A	949	235.736	117.694	2.621	1.00	92.75	A16S
ATOM	19837	C2	A	A	949	234.719	117.432	1.811	1.00	92.75	A16S
ATOM	19838	N1	A	A	949	234.516	116.372	1.017	1.00	92.75	A16S
ATOM	19839	C6	A	A	949	235.445	115.393	0.997	1.00	92.75	A16S
ATOM	19840	N6	A	A	949	235.247	114.326	0.211	1.00	92.75	A16S
ATOM	19841	C5	A	A	949	236.568	115.552	1.811	1.00	92.75	A16S
ATOM	19842	N7	A	A	949	237.679	114.752	2.024	1.00	92.75	A16S
ATOM	19843	C8	A	A	949	238.387	115.423	2.892	1.00	92.75	A16S
ATOM	19844	C2*	A	A	949	237.694	117.392	5.615	1.00	68.77	A16S
ATOM	19845	O2*	A	A	949	237.751	118.617	6.327	1.00	68.77	A16S
ATOM	19846	C3*	A	A	949	238.581	116.331	6.251	1.00	68.77	A16S
ATOM	19847	O3*	A	A	949	238.507	116.358	7.670	1.00	68.77	A16S
ATOM	19848	P	U	A	950	237.585	115.284	8.435	1.00	84.72	A16S
ATOM	19849	O1P	U	A	950	237.606	115.648	9.872	1.00	72.84	A16S
ATOM	19850	O2P	U	A	950	237.986	113.916	8.020	1.00	72.84	A16S
ATOM	19851	O5*	U	A	950	236.114	115.574	7.894	1.00	84.72	A16S
ATOM	19852	C5*	U	A	950	235.433	116.777	8.283	1.00	84.72	A16S
ATOM	19853	C4*	U	A	950	234.191	117.002	7.450	1.00	84.72	A16S
ATOM	19854	O4*	U	A	950	234.539	117.066	6.039	1.00	84.72	A16S
ATOM	19855	C1*	U	A	950	233.456	116.581	5.255	1.00	84.72	A16S
ATOM	19856	N1	U	A	950	233.870	115.352	4.551	1.00	72.84	A16S
ATOM	19857	C6	U	A	950	234.983	114.625	4.922	1.00	72.84	A16S
ATOM	19858	C2	U	A	950	233.087	114.940	3.496	1.00	72.84	A16S
ATOM	19859	O2	U	A	950	232.094	115.545	3.142	1.00	72.84	A16S



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ATOM	19860	N3	U	A	950	233.501	113.788	2.871	1.00	72.84	A16S
ATOM	19861	C4	U	A	950	234.596	113.014	3.187	1.00	72.84	A16S
ATOM	19862	O4	U	A	950	234.829	111.994	2.531	1.00	72.84	A16S
ATOM	19863	C5	U	A	950	235.361	113.501	4.293	1.00	72.84	A16S
ATOM	19864	C2*	U	A	950	232.320	116.281	6.223	1.00	84.72	A16S
ATOM	19865	O2*	U	A	950	231.535	117.454	6.367	1.00	84.72	A16S
ATOM	19866	C3*	U	A	950	233.099	115.951	7.484	1.00	84.72	A16S
ATOM	19867	O3*	U	A	950	232.286	115.991	8.629	1.00	84.72	A16S
ATOM	19868	P	G	A	951	231.682	114.612	9.193	1.00	75.72	A16S
ATOM	19869	O1P	G	A	951	231.340	114.842	10.627	1.00	75.59	A16S
ATOM	19870	O2P	G	A	951	232.584	113.474	8.830	1.00	75.59	A16S
ATOM	19871	O5*	G	A	951	230.329	114.435	8.373	1.00	75.72	A16S
ATOM	19872	C5*	G	A	951	229.210	115.302	8.619	1.00	75.72	A16S
ATOM	19873	C4*	G	A	951	228.091	115.004	7.653	1.00	75.72	A16S
ATOM	19874	O4*	G	A	951	228.520	115.373	6.316	1.00	75.72	A16S
ATOM	19875	C1*	G	A	951	227.991	114.455	5.380	1.00	75.72	A16S
ATOM	19876	N9	G	A	951	229.087	113.664	4.814	1.00	75.59	A16S
ATOM	19877	C4	G	A	951	229.018	112.913	3.664	1.00	75.59	A16S
ATOM	19878	N3	G	A	951	227.959	112.837	2.835	1.00	75.59	A16S
ATOM	19879	C2	G	A	951	228.163	112.002	1.848	1.00	75.59	A16S
ATOM	19880	N2	G	A	951	227.212	111.820	0.946	1.00	75.59	A16S
ATOM	19881	N1	G	A	951	229.311	111.288	1.672	1.00	75.59	A16S
ATOM	19882	C6	G	A	951	230.421	111.347	2.499	1.00	75.59	A16S
ATOM	19883	O6	G	A	951	231.409	110.654	2.241	1.00	75.59	A16S
ATOM	19884	C5	G	A	951	230.220	112.254	3.580	1.00	75.59	A16S
ATOM	19885	N7	G	A	951	231.052	112.613	4.633	1.00	75.59	A16S
ATOM	19886	C8	G	A	951	230.343	113.461	5.331	1.00	75.59	A16S
ATOM	19887	C2*	G	A	951	227.042	113.535	6.151	1.00	75.72	A16S
ATOM	19888	O2*	G	A	951	225.752	114.105	6.205	1.00	75.72	A16S
ATOM	19889	C3*	G	A	951	227.670	113.546	7.526	1.00	75.72	A16S
ATOM	19890	O3*	G	A	951	226.740	113.115	8.504	1.00	75.72	A16S
ATOM	19891	P	U	A	952	226.607	111.541	8.830	1.00	68.18	A16S
ATOM	19892	O1P	U	A	952	225.572	111.393	9.895	1.00	82.14	A16S
ATOM	19893	O2P	U	A	952	227.956	110.954	9.036	1.00	82.14	A16S
ATOM	19894	O5*	U	A	952	226.025	110.912	7.483	1.00	68.18	A16S
ATOM	19895	C5*	U	A	952	224.715	111.282	6.999	1.00	68.18	A16S
ATOM	19896	C4*	U	A	952	224.386	110.554	5.710	1.00	68.18	A16S
ATOM	19897	O4*	U	A	952	225.323	110.956	4.673	1.00	68.18	A16S
ATOM	19898	C1*	U	A	952	225.518	109.878	3.768	1.00	68.18	A16S
ATOM	19899	N1	U	A	952	226.940	109.474	3.772	1.00	82.14	A16S
ATOM	19900	C6	U	A	952	227.824	109.910	4.725	1.00	82.14	A16S
ATOM	19901	C2	U	A	952	227.360	108.601	2.776	1.00	82.14	A16S
ATOM	19902	O2	U	A	952	226.627	108.208	1.884	1.00	82.14	A16S
ATOM	19903	N3	U	A	952	228.669	108.203	2.860	1.00	82.14	A16S
ATOM	19904	C4	U	A	952	229.589	108.578	3.799	1.00	82.14	A16S
ATOM	19905	O4	U	A	952	230.717	108.083	3.769	1.00	82.14	A16S
ATOM	19906	C5	U	A	952	229.099	109.501	4.772	1.00	82.14	A16S
ATOM	19907	C2*	U	A	952	224.607	108.729	4.217	1.00	68.18	A16S
ATOM	19908	O2*	U	A	952	223.368	108.756	3.514	1.00	68.18	A16S
ATOM	19909	C3*	U	A	952	224.447	109.028	5.701	1.00	68.18	A16S
ATOM	19910	O3*	U	A	952	223.290	108.379	6.222	1.00	68.18	A16S
ATOM	19911	P	G	A	953	223.315	106.779	6.458	1.00	81.06	A16S
ATOM	19912	O1P	G	A	953	221.996	106.302	6.963	1.00	73.79	A16S
ATOM	19913	O2P	G	A	953	224.562	106.408	7.190	1.00	73.79	A16S
ATOM	19914	O5*	G	A	953	223.469	106.189	4.992	1.00	81.06	A16S
ATOM	19915	C5*	G	A	953	222.354	106.097	4.108	1.00	81.06	A16S
ATOM	19916	C4*	G	A	953	222.674	105.129	3.017	1.00	81.06	A16S
ATOM	19917	O4*	G	A	953	223.881	105.591	2.366	1.00	81.06	A16S
ATOM	19918	C1*	G	A	953	224.666	104.479	1.978	1.00	81.06	A16S
ATOM	19919	N9	G	A	953	225.982	104.572	2.608	1.00	73.79	A16S
ATOM	19920	C4	G	A	953	227.107	103.867	2.239	1.00	73.79	A16S
ATOM	19921	N3	G	A	953	227.187	102.981	1.227	1.00	73.79	A16S
ATOM	19922	C2	G	A	953	228.394	102.469	1.116	1.00	73.79	A16S
ATOM	19923	N2	G	A	953	228.654	101.577	0.152	1.00	73.79	A16S
ATOM	19924	N1	G	A	953	229.440	102.793	1.938	1.00	73.79	A16S
ATOM	19925	C6	G	A	953	229.382	103.699	2.985	1.00	73.79	A16S
ATOM	19926	O6	G	A	953	230.387	103.914	3.661	1.00	73.79	A16S
ATOM	19927	C5	G	A	953	228.094	104.266	3.112	1.00	73.79	A16S
ATOM	19928	N7	G	A	953	227.609	105.209	4.007	1.00	73.79	A16S
ATOM	19929	C8	G	A	953	226.355	105.360	3.672	1.00	73.79	A16S
ATOM	19930	C2*	G	A	953	223.900	103.211	2.355	1.00	81.06	A16S
ATOM	19931	O2*	G	A	953	223.166	102.759	1.222	1.00	81.06	A16S
ATOM	19932	C3*	G	A	953	223.015	103.720	3.483	1.00	81.06	A16S
ATOM	19933	O3*	G	A	953	221.859	102.910	3.664	1.00	81.06	A16S
ATOM	19934	P	G	A	954	221.868	101.741	4.776	1.00	90.50	A16S
ATOM	19935	O1P	G	A	954	220.587	100.978	4.634	1.00	90.53	A16S
ATOM	19936	O2P	G	A	954	222.221	102.359	6.087	1.00	90.53	A16S



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ATOM	19937	O5*	G	A	954	223.063	100.780	4.337	1.00	90.50	A16S
ATOM	19938	C5*	G	A	954	222.973	100.026	3.116	1.00	90.50	A16S
ATOM	19939	C4*	G	A	954	224.305	99.420	2.760	1.00	90.50	A16S
ATOM	19940	O4*	G	A	954	225.291	100.466	2.602	1.00	90.50	A16S
ATOM	19941	C1*	G	A	954	226.558	99.988	3.005	1.00	90.50	A16S
ATOM	19942	N9	G	A	954	227.063	100.843	4.073	1.00	90.53	A16S
ATOM	19943	C4	G	A	954	228.357	100.894	4.515	1.00	90.53	A16S
ATOM	19944	N3	G	A	954	229.383	100.176	4.025	1.00	90.53	A16S
ATOM	19945	C2	G	A	954	230.508	100.442	4.654	1.00	90.53	A16S
ATOM	19946	N2	G	A	954	231.632	99.831	4.279	1.00	90.53	A16S
ATOM	19947	N1	G	A	954	230.616	101.328	5.693	1.00	90.53	A16S
ATOM	19948	C6	G	A	954	229.568	102.067	6.220	1.00	90.53	A16S
ATOM	19949	O6	G	A	954	229.767	102.820	7.176	1.00	90.53	A16S
ATOM	19950	C5	G	A	954	228.360	101.809	5.541	1.00	90.53	A16S
ATOM	19951	N7	G	A	954	227.093	102.338	5.730	1.00	90.53	A16S
ATOM	19952	C8	G	A	954	226.356	101.736	4.838	1.00	90.53	A16S
ATOM	19953	C2*	G	A	954	226.392	98.534	3.448	1.00	90.50	A16S
ATOM	19954	O2*	G	A	954	226.724	97.681	2.372	1.00	90.50	A16S
ATOM	19955	C3*	G	A	954	224.910	98.480	3.782	1.00	90.50	A16S
ATOM	19956	O3*	G	A	954	224.405	97.173	3.618	1.00	90.50	A16S
ATOM	19957	P	U	A	955	224.340	96.194	4.884	1.00	78.07	A16S
ATOM	19958	O1P	U	A	955	223.769	94.892	4.440	1.00	95.37	A16S
ATOM	19959	O2P	U	A	955	223.673	96.955	5.977	1.00	95.37	A16S
ATOM	19960	O5*	U	A	955	225.872	95.964	5.269	1.00	78.07	A16S
ATOM	19961	C5*	U	A	955	226.739	95.202	4.409	1.00	78.07	A16S
ATOM	19962	C4*	U	A	955	228.188	95.388	4.802	1.00	78.07	A16S
ATOM	19963	O4*	U	A	955	228.535	96.795	4.732	1.00	78.07	A16S
ATOM	19964	C1*	U	A	955	229.474	97.108	5.746	1.00	78.07	A16S
ATOM	19965	N1	U	A	955	228.882	98.118	6.644	1.00	95.37	A16S
ATOM	19966	C6	U	A	955	227.538	98.411	6.616	1.00	95.37	A16S
ATOM	19967	C2	U	A	955	229.725	98.768	7.527	1.00	95.37	A16S
ATOM	19968	O2	U	A	955	230.916	98.544	7.586	1.00	95.37	A16S
ATOM	19969	N3	U	A	955	229.121	99.693	8.339	1.00	95.37	A16S
ATOM	19970	C4	U	A	955	227.790	100.032	8.360	1.00	95.37	A16S
ATOM	19971	O4	U	A	955	227.400	100.915	9.130	1.00	95.37	A16S
ATOM	19972	C5	U	A	955	226.980	99.318	7.421	1.00	95.37	A16S
ATOM	19973	C2*	U	A	955	229.816	95.804	6.462	1.00	78.07	A16S
ATOM	19974	O2*	U	A	955	230.918	95.208	5.821	1.00	78.07	A16S
ATOM	19975	C3*	U	A	955	228.566	94.984	6.213	1.00	78.07	A16S
ATOM	19976	O3*	U	A	955	228.838	93.601	6.316	1.00	78.07	A16S
ATOM	19977	P	U	A	956	228.553	92.843	7.712	1.00	86.56	A16S
ATOM	19978	O1P	U	A	956	228.817	91.382	7.495	1.00	82.59	A16S
ATOM	19979	O2P	U	A	956	227.222	93.282	8.231	1.00	82.59	A16S
ATOM	19980	O5*	U	A	956	229.672	93.423	8.685	1.00	86.56	A16S
ATOM	19981	C5*	U	A	956	231.043	93.109	8.457	1.00	86.56	A16S
ATOM	19982	C4*	U	A	956	231.922	93.861	9.414	1.00	86.56	A16S
ATOM	19983	O4*	U	A	956	231.773	95.282	9.197	1.00	86.56	A16S
ATOM	19984	C1*	U	A	956	231.965	95.971	10.415	1.00	86.56	A16S
ATOM	19985	N1	U	A	956	230.739	96.714	10.725	1.00	82.59	A16S
ATOM	19986	C6	U	A	956	229.518	96.308	10.248	1.00	82.59	A16S
ATOM	19987	C2	U	A	956	230.858	97.837	11.514	1.00	82.59	A16S
ATOM	19988	O2	U	A	956	231.925	98.228	11.962	1.00	82.59	A16S
ATOM	19989	N3	U	A	956	229.681	98.491	11.766	1.00	82.59	A16S
ATOM	19990	C4	U	A	956	228.428	98.141	11.322	1.00	82.59	A16S
ATOM	19991	O4	U	A	956	227.457	98.824	11.655	1.00	82.59	A16S
ATOM	19992	C5	U	A	956	228.391	96.964	10.511	1.00	82.59	A16S
ATOM	19993	C2*	U	A	956	232.291	94.931	11.479	1.00	86.56	A16S
ATOM	19994	O2*	U	A	956	233.699	94.806	11.540	1.00	86.56	A16S
ATOM	19995	C3*	U	A	956	231.640	93.690	10.892	1.00	86.56	A16S
ATOM	19996	O3*	U	A	956	232.200	92.495	11.403	1.00	86.56	A16S
ATOM	19997	P	U	A	957	231.497	91.779	12.652	1.00	85.31	A16S
ATOM	19998	O1P	U	A	957	232.259	90.535	12.961	1.00	100.32	A16S
ATOM	19999	O2P	U	A	957	230.041	91.700	12.357	1.00	100.32	A16S
ATOM	20000	O5*	U	A	957	231.716	92.827	13.831	1.00	85.31	A16S
ATOM	20001	C5*	U	A	957	233.047	93.252	14.175	1.00	85.31	A16S
ATOM	20002	C4*	U	A	957	233.010	94.413	15.136	1.00	85.31	A16S
ATOM	20003	O4*	U	A	957	232.385	95.563	14.510	1.00	85.31	A16S
ATOM	20004	C1*	U	A	957	231.685	96.309	15.487	1.00	85.31	A16S
ATOM	20005	N1	U	A	957	230.266	96.374	15.112	1.00	100.32	A16S
ATOM	20006	C6	U	A	957	229.649	95.346	14.431	1.00	100.32	A16S
ATOM	20007	C2	U	A	957	229.554	97.499	15.496	1.00	100.32	A16S
ATOM	20008	O2	U	A	957	230.068	98.449	16.054	1.00	100.32	A16S
ATOM	20009	N3	U	A	957	228.215	97.473	15.196	1.00	100.32	A16S
ATOM	20010	C4	U	A	957	227.527	96.468	14.548	1.00	100.32	A16S
ATOM	20011	O4	U	A	957	226.301	96.557	14.424	1.00	100.32	A16S
ATOM	20012	C5	U	A	957	228.340	95.355	14.142	1.00	100.32	A16S
ATOM	20013	C2*	U	A	957	231.884	95.616	16.841	1.00	85.31	A16S



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ATOM	20014	O2*	U	A	957	232.931	96.259	17.545	1.00	85.31	A16S
ATOM	20015	C3*	U	A	957	232.225	94.190	16.418	1.00	85.31	A16S
ATOM	20016	O3*	U	A	957	233.005	93.488	17.388	1.00	85.31	A16S
ATOM	20017	P	A	A	958	232.314	92.366	18.312	1.00	110.24	A16S
ATOM	20018	O1P	A	A	958	233.315	92.016	19.354	1.00	120.17	A16S
ATOM	20019	O2P	A	A	958	231.745	91.292	17.451	1.00	120.17	A16S
ATOM	20020	O5*	A	A	958	231.123	93.154	19.021	1.00	110.24	A16S
ATOM	20021	C5*	A	A	958	230.243	92.510	19.974	1.00	110.24	A16S
ATOM	20022	C4*	A	A	958	229.769	93.514	21.007	1.00	110.24	A16S
ATOM	20023	O4*	A	A	958	230.835	93.793	21.947	1.00	110.24	A16S
ATOM	20024	C1*	A	A	958	230.793	95.157	22.330	1.00	110.24	A16S
ATOM	20025	N9	A	A	958	232.143	95.719	22.172	1.00	120.17	A16S
ATOM	20026	C4	A	A	958	232.684	96.787	22.855	1.00	120.17	A16S
ATOM	20027	N3	A	A	958	232.088	97.550	23.787	1.00	120.17	A16S
ATOM	20028	C2	A	A	958	232.923	98.487	24.235	1.00	120.17	A16S
ATOM	20029	N1	A	A	958	234.188	98.736	23.883	1.00	120.17	A16S
ATOM	20030	C6	A	A	958	234.760	97.957	22.944	1.00	120.17	A16S
ATOM	20031	N6	A	A	958	236.018	98.216	22.589	1.00	120.17	A16S
ATOM	20032	C5	A	A	958	233.982	96.917	22.391	1.00	120.17	A16S
ATOM	20033	N7	A	A	958	234.259	95.952	21.431	1.00	120.17	A16S
ATOM	20034	C8	A	A	958	233.141	95.273	21.334	1.00	120.17	A16S
ATOM	20035	C2*	A	A	958	229.633	95.840	21.584	1.00	110.24	A16S
ATOM	20036	O2*	A	A	958	228.522	96.007	22.444	1.00	110.24	A16S
ATOM	20037	C3*	A	A	958	229.354	94.863	20.438	1.00	110.24	A16S
ATOM	20038	O3*	A	A	958	227.973	94.814	20.072	1.00	110.24	A16S
ATOM	20039	P	A	A	959	227.515	95.249	18.591	1.00	85.82	A16S
ATOM	20040	O1P	A	A	959	226.167	94.662	18.342	1.00	104.00	A16S
ATOM	20041	O2P	A	A	959	228.626	94.947	17.653	1.00	104.00	A16S
ATOM	20042	O5*	A	A	959	227.357	96.830	18.704	1.00	85.82	A16S
ATOM	20043	C5*	A	A	959	226.425	97.410	19.646	1.00	85.82	A16S
ATOM	20044	C4*	A	A	959	226.832	98.824	20.002	1.00	85.82	A16S
ATOM	20045	O4*	A	A	959	228.070	98.796	20.753	1.00	85.82	A16S
ATOM	20046	C1*	A	A	959	228.828	99.954	20.457	1.00	85.82	A16S
ATOM	20047	N9	A	A	959	230.183	99.542	20.069	1.00	104.00	A16S
ATOM	20048	C4	A	A	959	231.361	99.958	20.647	1.00	104.00	A16S
ATOM	20049	N3	A	A	959	231.515	100.805	21.676	1.00	104.00	A16S
ATOM	20050	C2	A	A	959	232.799	100.963	21.965	1.00	104.00	A16S
ATOM	20051	N1	A	A	959	233.870	100.427	21.384	1.00	104.00	A16S
ATOM	20052	C6	A	A	959	233.686	99.584	20.351	1.00	104.00	A16S
ATOM	20053	N6	A	A	959	234.757	99.050	19.766	1.00	104.00	A16S
ATOM	20054	C5	A	A	959	232.369	99.319	19.952	1.00	104.00	A16S
ATOM	20055	N7	A	A	959	231.843	98.509	18.958	1.00	104.00	A16S
ATOM	20056	C8	A	A	959	230.547	98.674	19.069	1.00	104.00	A16S
ATOM	20057	C2*	A	A	959	228.061	100.788	19.422	1.00	85.82	A16S
ATOM	20058	O2*	A	A	959	227.422	101.864	20.077	1.00	85.82	A16S
ATOM	20059	C3*	A	A	959	227.089	99.763	18.830	1.00	85.82	A16S
ATOM	20060	O3*	A	A	959	225.866	100.372	18.384	1.00	85.82	A16S
ATOM	20061	P	U	A	960	225.103	99.821	17.060	1.00	84.27	A16S
ATOM	20062	O1P	U	A	960	223.710	100.348	17.146	1.00	93.11	A16S
ATOM	20063	O2P	U	A	960	225.321	98.349	16.891	1.00	93.11	A16S
ATOM	20064	O5*	U	A	960	225.821	100.568	15.848	1.00	84.27	A16S
ATOM	20065	C5*	U	A	960	227.242	100.644	15.785	1.00	84.27	A16S
ATOM	20066	C4*	U	A	960	227.689	101.981	16.288	1.00	84.27	A16S
ATOM	20067	O4*	U	A	960	229.048	101.878	16.753	1.00	84.27	A16S
ATOM	20068	C1*	U	A	960	229.911	102.647	15.938	1.00	84.27	A16S
ATOM	20069	N1	U	A	960	230.988	101.732	15.510	1.00	93.11	A16S
ATOM	20070	C6	U	A	960	232.245	101.809	16.072	1.00	93.11	A16S
ATOM	20071	C2	U	A	960	230.704	100.763	14.557	1.00	93.11	A16S
ATOM	20072	O2	U	A	960	229.626	100.669	14.011	1.00	93.11	A16S
ATOM	20073	N3	U	A	960	231.735	99.903	14.272	1.00	93.11	A16S
ATOM	20074	C4	U	A	960	232.999	99.907	14.820	1.00	93.11	A16S
ATOM	20075	O4	U	A	960	233.792	99.013	14.516	1.00	93.11	A16S
ATOM	20076	C5	U	A	960	233.232	100.952	15.770	1.00	93.11	A16S
ATOM	20077	C2*	U	A	960	229.084	103.288	14.813	1.00	84.27	A16S
ATOM	20078	O2*	U	A	960	229.472	104.611	14.484	1.00	84.27	A16S
ATOM	20079	C3*	U	A	960	227.635	103.128	15.299	1.00	84.27	A16S
ATOM	20080	O3*	U	A	960	226.826	104.236	15.775	1.00	84.27	A16S
ATOM	20081	P	U	A	961	227.397	105.348	16.802	1.00	89.01	A16S
ATOM	20082	O1P	U	A	961	227.560	106.635	16.080	1.00	80.25	A16S
ATOM	20083	O2P	U	A	961	228.525	104.808	17.604	1.00	80.25	A16S
ATOM	20084	O5*	U	A	961	226.166	105.533	17.793	1.00	89.01	A16S
ATOM	20085	C5*	U	A	961	225.576	104.385	18.436	1.00	89.01	A16S
ATOM	20086	C4*	U	A	961	224.252	104.751	19.044	1.00	89.01	A16S
ATOM	20087	O4*	U	A	961	224.445	105.923	19.879	1.00	89.01	A16S
ATOM	20088	C1*	U	A	961	223.293	106.746	19.824	1.00	89.01	A16S
ATOM	20089	N1	U	A	961	223.665	108.056	19.273	1.00	80.25	A16S
ATOM	20090	C6	U	A	961	224.806	108.226	18.526	1.00	80.25	A16S



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ATOM	20091	C2	U	A	961	222.809	109.119	19.515	1.00	80.25	A16S
ATOM	20092	O2	U	A	961	221.788	109.015	20.186	1.00	80.25	A16S
ATOM	20093	N3	U	A	961	223.185	110.308	18.938	1.00	80.25	A16S
ATOM	20094	C4	U	A	961	224.302	110.539	18.163	1.00	80.25	A16S
ATOM	20095	O4	U	A	961	224.484	111.658	17.678	1.00	80.25	A16S
ATOM	20096	C5	U	A	961	225.143	109.396	17.977	1.00	80.25	A16S
ATOM	20097	C2*	U	A	961	222.271	106.053	18.928	1.00	89.01	A16S
ATOM	20098	O2*	U	A	961	221.359	105.309	19.717	1.00	89.01	A16S
ATOM	20099	C3*	U	A	961	223.165	105.172	18.069	1.00	89.01	A16S
ATOM	20100	O3*	U	A	961	222.441	104.077	17.526	1.00	89.01	A16S
ATOM	20101	P	C	A	962	221.662	104.260	16.122	1.00	84.05	A16S
ATOM	20102	O1P	C	A	962	220.769	103.077	15.976	1.00	81.12	A16S
ATOM	20103	O2P	C	A	962	222.663	104.563	15.061	1.00	81.12	A16S
ATOM	20104	O5*	C	A	962	220.769	105.575	16.307	1.00	84.05	A16S
ATOM	20105	C5*	C	A	962	219.665	105.581	17.220	1.00	84.05	A16S
ATOM	20106	C4*	C	A	962	218.934	106.904	17.191	1.00	84.05	A16S
ATOM	20107	O4*	C	A	962	219.780	107.997	17.641	1.00	84.05	A16S
ATOM	20108	C1*	C	A	962	219.287	109.218	17.110	1.00	84.05	A16S
ATOM	20109	N1	C	A	962	220.353	109.919	16.365	1.00	81.12	A16S
ATOM	20110	C6	C	A	962	221.484	109.270	15.945	1.00	81.12	A16S
ATOM	20111	C2	C	A	962	220.160	111.287	16.047	1.00	81.12	A16S
ATOM	20112	O2	C	A	962	219.154	111.876	16.482	1.00	81.12	A16S
ATOM	20113	N3	C	A	962	221.074	111.920	15.275	1.00	81.12	A16S
ATOM	20114	C4	C	A	962	222.147	111.260	14.834	1.00	81.12	A16S
ATOM	20115	N4	C	A	962	222.990	111.915	14.038	1.00	81.12	A16S
ATOM	20116	C5	C	A	962	222.396	109.894	15.182	1.00	81.12	A16S
ATOM	20117	C2*	C	A	962	218.140	108.870	16.161	1.00	84.05	A16S
ATOM	20118	O2*	C	A	962	216.896	109.089	16.800	1.00	84.05	A16S
ATOM	20119	C3*	C	A	962	218.411	107.402	15.864	1.00	84.05	A16S
ATOM	20120	O3*	C	A	962	217.235	106.736	15.446	1.00	84.05	A16S
ATOM	20121	P	G	A	963	217.002	106.468	13.876	1.00	83.67	A16S
ATOM	20122	O1P	G	A	963	215.946	105.418	13.803	1.00	73.15	A16S
ATOM	20123	O2P	G	A	963	218.329	106.211	13.242	1.00	73.15	A16S
ATOM	20124	O5*	G	A	963	216.470	107.869	13.307	1.00	83.67	A16S
ATOM	20125	C5*	G	A	963	215.315	108.502	13.874	1.00	83.67	A16S
ATOM	20126	C4*	G	A	963	215.344	110.002	13.650	1.00	83.67	A16S
ATOM	20127	O4*	G	A	963	216.574	110.569	14.180	1.00	83.67	A16S
ATOM	20128	C1*	G	A	963	216.908	111.752	13.464	1.00	83.67	A16S
ATOM	20129	N9	G	A	963	218.227	111.595	12.856	1.00	73.15	A16S
ATOM	20130	C4	G	A	963	218.898	112.542	12.115	1.00	73.15	A16S
ATOM	20131	N3	G	A	963	218.478	113.796	11.867	1.00	73.15	A16S
ATOM	20132	C2	G	A	963	219.312	114.448	11.076	1.00	73.15	A16S
ATOM	20133	N2	G	A	963	219.048	115.710	10.720	1.00	73.15	A16S
ATOM	20134	N1	G	A	963	220.465	113.910	10.570	1.00	73.15	A16S
ATOM	20135	C6	G	A	963	220.916	112.620	10.811	1.00	73.15	A16S
ATOM	20136	O6	G	A	963	221.961	112.225	10.286	1.00	73.15	A16S
ATOM	20137	C5	G	A	963	220.040	111.913	11.664	1.00	73.15	A16S
ATOM	20138	N7	G	A	963	220.116	110.614	12.153	1.00	73.15	A16S
ATOM	20139	C8	G	A	963	219.026	110.470	12.859	1.00	73.15	A16S
ATOM	20140	C2*	G	A	963	215.838	111.949	12.390	1.00	83.67	A16S
ATOM	20141	O2*	G	A	963	214.888	112.878	12.869	1.00	83.67	A16S
ATOM	20142	C3*	G	A	963	215.279	110.535	12.227	1.00	83.67	A16S
ATOM	20143	O3*	G	A	963	213.947	110.566	11.714	1.00	83.67	A16S
ATOM	20144	P	A	A	964	213.680	110.285	10.146	1.00	81.31	A16S
ATOM	20145	O1P	A	A	964	212.206	110.371	9.927	1.00	78.97	A16S
ATOM	20146	O2P	A	A	964	214.406	109.037	9.779	1.00	78.97	A16S
ATOM	20147	O5*	A	A	964	214.353	111.514	9.383	1.00	81.31	A16S
ATOM	20148	C5*	A	A	964	213.842	112.847	9.547	1.00	81.31	A16S
ATOM	20149	C4*	A	A	964	214.683	113.837	8.773	1.00	81.31	A16S
ATOM	20150	O4*	A	A	964	216.021	113.867	9.324	1.00	81.31	A16S
ATOM	20151	C1*	A	A	964	216.973	113.992	8.284	1.00	81.31	A16S
ATOM	20152	N9	A	A	964	217.786	112.773	8.294	1.00	78.97	A16S
ATOM	20153	C4	A	A	964	218.898	112.505	7.537	1.00	78.97	A16S
ATOM	20154	N3	A	A	964	219.475	113.306	6.627	1.00	78.97	A16S
ATOM	20155	C2	A	A	964	220.530	112.707	6.086	1.00	78.97	A16S
ATOM	20156	N1	A	A	964	221.038	111.485	6.336	1.00	78.97	A16S
ATOM	20157	C6	A	A	964	220.434	110.709	7.262	1.00	78.97	A16S
ATOM	20158	N6	A	A	964	220.939	109.499	7.522	1.00	78.97	A16S
ATOM	20159	C5	A	A	964	219.305	111.228	7.903	1.00	78.97	A16S
ATOM	20160	N7	A	A	964	218.468	110.703	8.874	1.00	78.97	A16S
ATOM	20161	C8	A	A	964	217.588	111.652	9.071	1.00	78.97	A16S
ATOM	20162	C2*	A	A	964	216.199	114.221	6.982	1.00	81.31	A16S
ATOM	20163	O2*	A	A	964	216.103	115.621	6.765	1.00	81.31	A16S
ATOM	20164	C3*	A	A	964	214.864	113.541	7.294	1.00	81.31	A16S
ATOM	20165	O3*	A	A	964	213.757	114.060	6.550	1.00	81.31	A16S
ATOM	20166	P	A	A	965	212.715	113.045	5.854	1.00	75.18	A16S
ATOM	20167	O1P	A	A	965	211.514	113.796	5.400	1.00	82.76	A16S



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ATOM	20168	O2P	A	A	965	212.553	111.842	6.736	1.00	82.76	A16S
ATOM	20169	O5*	A	A	965	213.477	112.588	4.539	1.00	75.18	A16S
ATOM	20170	C5*	A	A	965	213.578	113.441	3.373	1.00	75.18	A16S
ATOM	20171	C4*	A	A	965	214.127	112.630	2.236	1.00	75.18	A16S
ATOM	20172	O4*	A	A	965	215.457	112.206	2.598	1.00	75.18	A16S
ATOM	20173	C1*	A	A	965	215.639	110.851	2.254	1.00	75.18	A16S
ATOM	20174	N9	A	A	965	216.302	110.204	3.374	1.00	82.76	A16S
ATOM	20175	C4	A	A	965	217.419	109.407	3.320	1.00	82.76	A16S
ATOM	20176	N3	A	A	965	218.106	109.033	2.229	1.00	82.76	A16S
ATOM	20177	C2	A	A	965	219.132	108.256	2.570	1.00	82.76	A16S
ATOM	20178	N1	A	A	965	219.517	107.846	3.783	1.00	82.76	A16S
ATOM	20179	C6	A	A	965	218.799	108.244	4.856	1.00	82.76	A16S
ATOM	20180	N6	A	A	965	219.167	107.835	6.071	1.00	82.76	A16S
ATOM	20181	C5	A	A	965	217.698	109.066	4.631	1.00	82.76	A16S
ATOM	20182	N7	A	A	965	216.775	109.633	5.494	1.00	82.76	A16S
ATOM	20183	C8	A	A	965	215.966	110.290	4.699	1.00	82.76	A16S
ATOM	20184	C2*	A	A	965	214.313	110.246	1.775	1.00	75.18	A16S
ATOM	20185	O2*	A	A	965	214.372	109.808	0.434	1.00	75.18	A16S
ATOM	20186	C3*	A	A	965	213.315	111.359	2.071	1.00	75.18	A16S
ATOM	20187	O3*	A	A	965	212.227	111.603	1.167	1.00	75.18	A16S
ATOM	20188	P	G	A	966	212.466	111.810	-0.430	1.00	65.06	A16S
ATOM	20189	O1P	G	A	966	212.527	110.449	-1.058	1.00	73.89	A16S
ATOM	20190	O2P	G	A	966	211.440	112.787	-0.895	1.00	73.89	A16S
ATOM	20191	O5*	G	A	966	213.842	112.591	-0.631	1.00	65.06	A16S
ATOM	20192	C5*	G	A	966	214.864	112.056	-1.505	1.00	65.06	A16S
ATOM	20193	C4*	G	A	966	214.918	112.803	-2.821	1.00	65.06	A16S
ATOM	20194	O4*	G	A	966	213.860	112.391	-3.724	1.00	65.06	A16S
ATOM	20195	C1*	G	A	966	213.688	113.403	-4.710	1.00	65.06	A16S
ATOM	20196	N9	G	A	966	212.265	113.633	-4.961	1.00	73.89	A16S
ATOM	20197	C4	G	A	966	211.730	114.421	-5.967	1.00	73.89	A16S
ATOM	20198	N3	G	A	966	212.426	115.113	-6.897	1.00	73.89	A16S
ATOM	20199	C2	G	A	966	211.629	115.801	-7.706	1.00	73.89	A16S
ATOM	20200	N2	G	A	966	212.148	116.571	-8.673	1.00	73.89	A16S
ATOM	20201	N1	G	A	966	210.266	115.793	-7.622	1.00	73.89	A16S
ATOM	20202	C6	G	A	966	209.526	115.081	-6.683	1.00	73.89	A16S
ATOM	20203	O6	G	A	966	208.287	115.137	-6.704	1.00	73.89	A16S
ATOM	20204	C5	G	A	966	210.366	114.354	-5.794	1.00	73.89	A16S
ATOM	20205	N7	G	A	966	210.044	113.542	-4.713	1.00	73.89	A16S
ATOM	20206	C8	G	A	966	211.198	113.134	-4.254	1.00	73.89	A16S
ATOM	20207	C2*	G	A	966	214.407	114.660	-4.216	1.00	65.06	A16S
ATOM	20208	O2*	G	A	966	215.557	114.899	-4.992	1.00	65.06	A16S
ATOM	20209	C3*	G	A	966	214.737	114.303	-2.769	1.00	65.06	A16S
ATOM	20210	O3*	G	A	966	215.884	115.002	-2.326	1.00	65.06	A16S
ATOM	20211	P	C	A	967	215.689	116.425	-1.610	1.00	61.79	A16S
ATOM	20212	O1P	C	A	967	217.006	116.850	-1.058	1.00	79.49	A16S
ATOM	20213	O2P	C	A	967	214.507	116.281	-0.695	1.00	79.49	A16S
ATOM	20214	O5*	C	A	967	215.294	117.410	-2.802	1.00	61.79	A16S
ATOM	20215	C5*	C	A	967	216.218	117.694	-3.873	1.00	61.79	A16S
ATOM	20216	C4*	C	A	967	215.570	118.603	-4.894	1.00	61.79	A16S
ATOM	20217	O4*	C	A	967	214.482	117.906	-5.550	1.00	61.79	A16S
ATOM	20218	C1*	C	A	967	213.425	118.804	-5.830	1.00	61.79	A16S
ATOM	20219	N1	C	A	967	212.201	118.266	-5.207	1.00	79.49	A16S
ATOM	20220	C6	C	A	967	212.282	117.509	-4.065	1.00	79.49	A16S
ATOM	20221	C2	C	A	967	210.948	118.540	-5.790	1.00	79.49	A16S
ATOM	20222	O2	C	A	967	210.894	119.213	-6.839	1.00	79.49	A16S
ATOM	20223	N3	C	A	967	209.830	118.055	-5.187	1.00	79.49	A16S
ATOM	20224	C4	C	A	967	209.932	117.323	-4.062	1.00	79.49	A16S
ATOM	20225	N4	C	A	967	208.811	116.868	-3.492	1.00	79.49	A16S
ATOM	20226	C5	C	A	967	211.188	117.025	-3.469	1.00	79.49	A16S
ATOM	20227	C2*	C	A	967	213.843	120.194	-5.337	1.00	61.79	A16S
ATOM	20228	O2*	C	A	967	214.295	120.949	-6.433	1.00	61.79	A16S
ATOM	20229	C3*	C	A	967	214.957	119.874	-4.335	1.00	61.79	A16S
ATOM	20230	O3*	C	A	967	215.966	120.893	-4.280	1.00	61.79	A16S
ATOM	20231	P	A	A	968	215.866	122.073	-3.188	1.00	85.15	A16S
ATOM	20232	O1P	A	A	968	214.600	122.798	-3.463	1.00	81.23	A16S
ATOM	20233	O2P	A	A	968	217.148	122.828	-3.151	1.00	81.23	A16S
ATOM	20234	O5*	A	A	968	215.697	121.298	-1.808	1.00	85.15	A16S
ATOM	20235	C5*	A	A	968	215.647	122.016	-0.563	1.00	85.15	A16S
ATOM	20236	C4*	A	A	968	214.506	121.515	0.294	1.00	85.15	A16S
ATOM	20237	O4*	A	A	968	213.236	121.874	-0.311	1.00	85.15	A16S
ATOM	20238	C1*	A	A	968	212.422	120.728	-0.408	1.00	85.15	A16S
ATOM	20239	N9	A	A	968	211.595	120.849	-1.604	1.00	81.23	A16S
ATOM	20240	C4	A	A	968	210.288	120.435	-1.724	1.00	81.23	A16S
ATOM	20241	N3	A	A	968	209.525	119.839	-0.784	1.00	81.23	A16S
ATOM	20242	C2	A	A	968	208.304	119.599	-1.255	1.00	81.23	A16S
ATOM	20243	N1	A	A	968	207.799	119.864	-2.468	1.00	81.23	A16S
ATOM	20244	C6	A	A	968	208.596	120.461	-3.388	1.00	81.23	A16S



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ATOM	20245	N6	A	A 968	208.103	120.722	-4.601	1.00	81.23	A16S
ATOM	20246	C5	A	A 968	209.906	120.771	-3.012	1.00	81.23	A16S
ATOM	20247	N7	A	A 968	210.952	121.379	-3.694	1.00	81.23	A16S
ATOM	20248	C8	A	A 968	211.929	121.397	-2.819	1.00	81.23	A16S
ATOM	20249	C2*	A	A 968	213.370	119.531	-0.404	1.00	85.15	A16S
ATOM	20250	O2*	A	A 968	212.703	118.368	0.061	1.00	85.15	A16S
ATOM	20251	C3*	A	A 968	214.459	120.013	0.551	1.00	85.15	A16S
ATOM	20252	O3*	A	A 968	214.001	119.795	1.876	1.00	85.15	A16S
ATOM	20253	P	A	A 969	215.054	119.534	3.055	1.00	66.13	A16S
ATOM	20254	O1P	A	A 969	214.310	118.765	4.084	1.00	84.02	A16S
ATOM	20255	O2P	A	A 969	215.689	120.833	3.409	1.00	84.02	A16S
ATOM	20256	O5*	A	A 969	216.161	118.574	2.428	1.00	66.13	A16S
ATOM	20257	C5*	A	A 969	215.951	117.162	2.353	1.00	66.13	A16S
ATOM	20258	C4*	A	A 969	216.901	116.451	3.277	1.00	66.13	A16S
ATOM	20259	O4*	A	A 969	216.623	115.031	3.188	1.00	66.13	A16S
ATOM	20260	C1*	A	A 969	217.835	114.300	3.263	1.00	66.13	A16S
ATOM	20261	N9	A	A 969	218.046	113.653	1.974	1.00	84.02	A16S
ATOM	20262	C4	A	A 969	218.895	112.609	1.720	1.00	84.02	A16S
ATOM	20263	N3	A	A 969	219.660	111.953	2.604	1.00	84.02	A16S
ATOM	20264	C2	A	A 969	220.378	111.017	1.994	1.00	84.02	A16S
ATOM	20265	N1	A	A 969	220.410	110.686	0.697	1.00	84.02	A16S
ATOM	20266	C6	A	A 969	219.621	111.368	-0.164	1.00	84.02	A16S
ATOM	20267	N6	A	A 969	219.648	111.041	-1.460	1.00	84.02	A16S
ATOM	20268	C5	A	A 969	218.818	112.385	0.360	1.00	84.02	A16S
ATOM	20269	N7	A	A 969	217.916	113.257	-0.232	1.00	84.02	A16S
ATOM	20270	C8	A	A 969	217.480	113.980	0.767	1.00	84.02	A16S
ATOM	20271	C2*	A	A 969	218.967	115.295	3.533	1.00	66.13	A16S
ATOM	20272	O2*	A	A 969	219.221	115.356	4.922	1.00	66.13	A16S
ATOM	20273	C3*	A	A 969	218.389	116.582	2.949	1.00	66.13	A16S
ATOM	20274	O3*	A	A 969	218.990	117.758	3.513	1.00	66.13	A16S
ATOM	20275	P	C	A 970	220.309	118.413	2.826	1.00	62.94	A16S
ATOM	20276	O1P	C	A 970	220.782	119.523	3.712	1.00	91.02	A16S
ATOM	20277	O2P	C	A 970	220.035	118.710	1.371	1.00	91.02	A16S
ATOM	20278	O5*	C	A 970	221.400	117.254	2.944	1.00	62.94	A16S
ATOM	20279	C5*	C	A 970	221.893	116.832	4.225	1.00	62.94	A16S
ATOM	20280	C4*	C	A 970	222.948	115.763	4.059	1.00	62.94	A16S
ATOM	20281	O4*	C	A 970	222.373	114.622	3.372	1.00	62.94	A16S
ATOM	20282	C1*	C	A 970	223.357	114.001	2.557	1.00	62.94	A16S
ATOM	20283	N1	C	A 970	222.905	114.023	1.149	1.00	91.02	A16S
ATOM	20284	C6	C	A 970	222.448	115.176	0.574	1.00	91.02	A16S
ATOM	20285	C2	C	A 970	222.958	112.842	0.405	1.00	91.02	A16S
ATOM	20286	O2	C	A 970	223.369	111.797	0.953	1.00	91.02	A16S
ATOM	20287	N3	C	A 970	222.560	112.862	-0.892	1.00	91.02	A16S
ATOM	20288	C4	C	A 970	222.119	113.996	-1.440	1.00	91.02	A16S
ATOM	20289	N4	C	A 970	221.735	113.973	-2.720	1.00	91.02	A16S
ATOM	20290	C5	C	A 970	222.051	115.205	-0.703	1.00	91.02	A16S
ATOM	20291	C2*	C	A 970	224.660	114.762	2.755	1.00	62.94	A16S
ATOM	20292	O2*	C	A 970	225.404	114.105	3.749	1.00	62.94	A16S
ATOM	20293	C3*	C	A 970	224.148	116.123	3.204	1.00	62.94	A16S
ATOM	20294	O3*	C	A 970	225.128	116.856	3.901	1.00	62.94	A16S
ATOM	20295	P	G	A 971	225.739	118.177	3.221	1.00	76.64	A16S
ATOM	20296	O1P	G	A 971	224.816	119.298	3.550	1.00101.50	A16S	
ATOM	20297	O2P	G	A 971	226.032	117.877	1.792	1.00101.50	A16S	
ATOM	20298	O5*	G	A 971	227.141	118.357	3.969	1.00	76.64	A16S
ATOM	20299	C5*	G	A 971	227.227	118.385	5.415	1.00	76.64	A16S
ATOM	20300	C4*	G	A 971	227.803	119.708	5.879	1.00	76.64	A16S
ATOM	20301	O4*	G	A 971	229.257	119.664	5.906	1.00	76.64	A16S
ATOM	20302	C1*	G	A 971	229.742	120.868	5.361	1.00	76.64	A16S
ATOM	20303	N9	G	A 971	231.117	120.692	4.925	1.00101.50	A16S	
ATOM	20304	C4	G	A 971	232.191	120.615	5.753	1.00101.50	A16S	
ATOM	20305	N3	G	A 971	232.145	120.658	7.094	1.00101.50	A16S	
ATOM	20306	C2	G	A 971	233.342	120.597	7.629	1.00101.50	A16S	
ATOM	20307	N2	G	A 971	233.469	120.651	8.961	1.00101.50	A16S	
ATOM	20308	N1	G	A 971	234.500	120.487	6.899	1.00101.50	A16S	
ATOM	20309	C6	G	A 971	234.569	120.441	5.509	1.00101.50	A16S	
ATOM	20310	O6	G	A 971	235.670	120.354	4.939	1.00101.50	A16S	
ATOM	20311	C5	G	A 971	233.284	120.514	4.928	1.00101.50	A16S	
ATOM	20312	N7	G	A 971	232.898	120.511	3.597	1.00101.50	A16S	
ATOM	20313	C8	G	A 971	231.599	120.610	3.644	1.00101.50	A16S	
ATOM	20314	C2*	G	A 971	228.726	121.250	4.296	1.00	76.64	A16S
ATOM	20315	O2*	G	A 971	228.902	122.602	3.905	1.00	76.64	A16S
ATOM	20316	C3*	G	A 971	227.428	120.934	5.038	1.00	76.64	A16S
ATOM	20317	O3*	G	A 971	227.124	122.037	5.878	1.00	76.64	A16S
ATOM	20318	P	C	A 972	225.835	122.949	5.567	1.00	75.98	A16S
ATOM	20319	O1P	C	A 972	225.425	122.766	4.132	1.00	70.73	A16S
ATOM	20320	O2P	C	A 972	226.132	124.313	6.046	1.00	70.73	A16S
ATOM	20321	O5*	C	A 972	224.740	122.340	6.558	1.00	75.98	A16S



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ATOM	20322	C5*	C	A	972	224.364	120.950	6.495	1.00	75.98	A16S
ATOM	20323	C4*	C	A	972	222.961	120.779	7.019	1.00	75.98	A16S
ATOM	20324	O4*	C	A	972	222.340	119.610	6.432	1.00	75.98	A16S
ATOM	20325	C1*	C	A	972	221.489	118.998	7.376	1.00	75.98	A16S
ATOM	20326	N1	C	A	972	222.075	117.699	7.731	1.00	70.73	A16S
ATOM	20327	C6	C	A	972	223.421	117.491	7.621	1.00	70.73	A16S
ATOM	20328	C2	C	A	972	221.241	116.681	8.206	1.00	70.73	A16S
ATOM	20329	O2	C	A	972	220.009	116.877	8.257	1.00	70.73	A16S
ATOM	20330	N3	C	A	972	221.793	115.506	8.593	1.00	70.73	A16S
ATOM	20331	C4	C	A	972	223.112	115.327	8.501	1.00	70.73	A16S
ATOM	20332	N4	C	A	972	223.619	114.160	8.909	1.00	70.73	A16S
ATOM	20333	C5	C	A	972	223.974	116.335	7.989	1.00	70.73	A16S
ATOM	20334	C2*	C	A	972	221.439	119.921	8.590	1.00	75.98	A16S
ATOM	20335	O2*	C	A	972	220.394	120.850	8.389	1.00	75.98	A16S
ATOM	20336	C3*	C	A	972	222.805	120.590	8.515	1.00	75.98	A16S
ATOM	20337	O3*	C	A	972	222.868	121.821	9.233	1.00	75.98	A16S
ATOM	20338	P	G	A	973	223.409	121.832	10.762	1.00	82.88	A16S
ATOM	20339	O1P	G	A	973	223.662	123.280	11.076	1.00	71.75	A16S
ATOM	20340	O2P	G	A	973	224.512	120.829	10.951	1.00	71.75	A16S
ATOM	20341	O5*	G	A	973	222.172	121.294	11.619	1.00	82.88	A16S
ATOM	20342	C5*	G	A	973	220.948	122.052	11.732	1.00	82.88	A16S
ATOM	20343	C4*	G	A	973	220.120	121.520	12.872	1.00	82.88	A16S
ATOM	20344	O4*	G	A	973	219.579	120.221	12.527	1.00	82.88	A16S
ATOM	20345	C1*	G	A	973	219.679	119.342	13.633	1.00	82.88	A16S
ATOM	20346	N9	G	A	973	220.619	118.285	13.261	1.00	71.75	A16S
ATOM	20347	C4	G	A	973	220.621	116.957	13.671	1.00	71.75	A16S
ATOM	20348	N3	G	A	973	219.731	116.366	14.504	1.00	71.75	A16S
ATOM	20349	C2	G	A	973	220.009	115.077	14.693	1.00	71.75	A16S
ATOM	20350	N2	G	A	973	219.225	114.324	15.464	1.00	71.75	A16S
ATOM	20351	N1	G	A	973	221.074	114.430	14.134	1.00	71.75	A16S
ATOM	20352	C6	G	A	973	222.004	115.012	13.285	1.00	71.75	A16S
ATOM	20353	O6	G	A	973	222.940	114.335	12.846	1.00	71.75	A16S
ATOM	20354	C5	G	A	973	221.716	116.388	13.050	1.00	71.75	A16S
ATOM	20355	N7	G	A	973	222.380	117.323	12.263	1.00	71.75	A16S
ATOM	20356	C8	G	A	973	221.699	118.427	12.420	1.00	71.75	A16S
ATOM	20357	C2*	G	A	973	220.165	120.168	14.827	1.00	82.88	A16S
ATOM	20358	O2*	G	A	973	219.055	120.635	15.568	1.00	82.88	A16S
ATOM	20359	C3*	G	A	973	220.931	121.290	14.131	1.00	82.88	A16S
ATOM	20360	O3*	G	A	973	221.054	122.506	14.878	1.00	82.88	A16S
ATOM	20361	P	A	A	974	221.889	122.523	16.258	1.00	85.32	A16S
ATOM	20362	O1P	A	A	974	222.124	121.099	16.675	1.00	73.52	A16S
ATOM	20363	O2P	A	A	974	221.154	123.457	17.156	1.00	73.52	A16S
ATOM	20364	O5*	A	A	974	223.296	123.197	15.932	1.00	85.32	A16S
ATOM	20365	C5*	A	A	974	224.044	122.810	14.781	1.00	85.32	A16S
ATOM	20366	C4*	A	A	974	225.381	122.228	15.176	1.00	85.32	A16S
ATOM	20367	O4*	A	A	974	225.200	121.070	16.042	1.00	85.32	A16S
ATOM	20368	C1*	A	A	974	225.774	119.923	15.438	1.00	85.32	A16S
ATOM	20369	N9	A	A	974	224.903	118.772	15.681	1.00	73.52	A16S
ATOM	20370	C4	A	A	974	225.266	117.444	15.659	1.00	73.52	A16S
ATOM	20371	N3	A	A	974	226.487	116.932	15.431	1.00	73.52	A16S
ATOM	20372	C2	A	A	974	226.456	115.594	15.493	1.00	73.52	A16S
ATOM	20373	N1	A	A	974	225.417	114.776	15.732	1.00	73.52	A16S
ATOM	20374	C6	A	A	974	224.201	115.329	15.946	1.00	73.52	A16S
ATOM	20375	N6	A	A	974	223.160	114.526	16.168	1.00	73.52	A16S
ATOM	20376	C5	A	A	974	224.102	116.729	15.917	1.00	73.52	A16S
ATOM	20377	N7	A	A	974	223.028	117.584	16.103	1.00	73.52	A16S
ATOM	20378	C8	A	A	974	223.552	118.781	15.956	1.00	73.52	A16S
ATOM	20379	C2*	A	A	974	225.873	120.242	13.948	1.00	85.32	A16S
ATOM	20380	O2*	A	A	974	226.849	119.447	13.305	1.00	85.32	A16S
ATOM	20381	C3*	A	A	974	226.154	121.741	13.962	1.00	85.32	A16S
ATOM	20382	O3*	A	A	974	227.529	122.019	14.138	1.00	85.32	A16S
ATOM	20383	P	A	A	975	228.204	123.241	13.342	1.00	77.38	A16S
ATOM	20384	O1P	A	A	975	227.170	124.014	12.581	1.00	84.75	A16S
ATOM	20385	O2P	A	A	975	229.378	122.678	12.630	1.00	84.75	A16S
ATOM	20386	O5*	A	A	975	228.757	124.161	14.516	1.00	77.38	A16S
ATOM	20387	C5*	A	A	975	228.610	125.594	14.488	1.00	77.38	A16S
ATOM	20388	C4*	A	A	975	228.274	126.097	15.872	1.00	77.38	A16S
ATOM	20389	O4*	A	A	975	228.433	127.532	15.950	1.00	77.38	A16S
ATOM	20390	C1*	A	A	975	227.176	128.155	15.843	1.00	77.38	A16S
ATOM	20391	N9	A	A	975	227.018	128.596	14.457	1.00	84.75	A16S
ATOM	20392	C4	A	A	975	226.820	129.877	14.022	1.00	84.75	A16S
ATOM	20393	N3	A	A	975	226.758	130.985	14.772	1.00	84.75	A16S
ATOM	20394	C2	A	A	975	226.536	132.055	14.000	1.00	84.75	A16S
ATOM	20395	N1	A	A	975	226.375	132.128	12.660	1.00	84.75	A16S
ATOM	20396	C6	A	A	975	226.436	130.984	11.942	1.00	84.75	A16S
ATOM	20397	N6	A	A	975	226.256	131.044	10.619	1.00	84.75	A16S
ATOM	20398	C5	A	A	975	226.679	129.791	12.640	1.00	84.75	A16S



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ATOM	20399	N7	A	A 975	226.809	128.482	12.213	1.00	84.75	A16S
ATOM	20400	C8	A	A 975	227.013	127.814	13.321	1.00	84.75	A16S
ATOM	20401	C2*	A	A 975	226.101	127.141	16.247	1.00	77.38	A16S
ATOM	20402	O2*	A	A 975	225.353	127.541	17.377	1.00	77.38	A16S
ATOM	20403	C3*	A	A 975	226.859	125.805	16.344	1.00	77.38	A16S
ATOM	20404	O3*	A	A 975	226.801	125.050	17.572	1.00	77.38	A16S
ATOM	20405	P	G	A 976	227.730	125.445	18.825	1.00	78.12	A16S
ATOM	20406	O1P	G	A 976	226.954	125.257	20.070	1.00	104.57	A16S
ATOM	20407	O2P	G	A 976	228.340	126.763	18.541	1.00	104.57	A16S
ATOM	20408	O5*	G	A 976	228.869	124.329	18.848	1.00	78.12	A16S
ATOM	20409	C5*	G	A 976	229.120	123.505	17.702	1.00	78.12	A16S
ATOM	20410	C4*	G	A 976	230.534	122.954	17.728	1.00	78.12	A16S
ATOM	20411	O4*	G	A 976	231.529	123.893	17.233	1.00	78.12	A16S
ATOM	20412	C1*	G	A 976	232.742	123.654	17.912	1.00	78.12	A16S
ATOM	20413	N9	G	A 976	233.561	124.864	17.885	1.00	104.57	A16S
ATOM	20414	C4	G	A 976	234.769	125.026	17.240	1.00	104.57	A16S
ATOM	20415	N3	G	A 976	235.393	124.103	16.481	1.00	104.57	A16S
ATOM	20416	C2	G	A 976	236.545	124.547	16.007	1.00	104.57	A16S
ATOM	20417	N2	G	A 976	237.281	123.757	15.223	1.00	104.57	A16S
ATOM	20418	N1	G	A 976	237.054	125.799	16.266	1.00	104.57	A16S
ATOM	20419	C6	G	A 976	236.436	126.768	17.052	1.00	104.57	A16S
ATOM	20420	O6	G	A 976	236.994	127.870	17.241	1.00	104.57	A16S
ATOM	20421	C5	G	A 976	235.182	126.303	17.554	1.00	104.57	A16S
ATOM	20422	N7	G	A 976	234.245	126.938	18.355	1.00	104.57	A16S
ATOM	20423	C8	G	A 976	233.302	126.050	18.521	1.00	104.57	A16S
ATOM	20424	C2*	G	A 976	232.315	123.232	19.318	1.00	78.12	A16S
ATOM	20425	O2*	G	A 976	233.357	122.510	19.945	1.00	78.12	A16S
ATOM	20426	C3*	G	A 976	231.075	122.379	19.035	1.00	78.12	A16S
ATOM	20427	O3*	G	A 976	231.442	121.026	18.846	1.00	78.12	A16S
ATOM	20428	P	A	A 977	230.729	119.892	19.730	1.00	79.12	A16S
ATOM	20429	O1P	A	A 977	229.258	119.979	19.505	1.00	107.68	A16S
ATOM	20430	O2P	A	A 977	231.258	119.975	21.121	1.00	107.68	A16S
ATOM	20431	O5*	A	A 977	231.244	118.534	19.080	1.00	79.12	A16S
ATOM	20432	C5*	A	A 977	232.611	118.144	19.210	1.00	79.12	A16S
ATOM	20433	C4*	A	A 977	232.697	116.914	20.055	1.00	79.12	A16S
ATOM	20434	O4*	A	A 977	231.852	115.896	19.481	1.00	79.12	A16S
ATOM	20435	C1*	A	A 977	232.411	114.629	19.743	1.00	79.12	A16S
ATOM	20436	N9	A	A 977	232.393	113.843	18.505	1.00	107.68	A16S
ATOM	20437	C4	A	A 977	233.406	113.635	17.595	1.00	107.68	A16S
ATOM	20438	N3	A	A 977	234.655	114.124	17.630	1.00	107.68	A16S
ATOM	20439	C2	A	A 977	235.356	113.700	16.585	1.00	107.68	A16S
ATOM	20440	N1	A	A 977	234.985	112.905	15.584	1.00	107.68	A16S
ATOM	20441	C6	A	A 977	233.724	112.435	15.572	1.00	107.68	A16S
ATOM	20442	N6	A	A 977	233.350	111.648	14.563	1.00	107.68	A16S
ATOM	20443	C5	A	A 977	232.876	112.808	16.626	1.00	107.68	A16S
ATOM	20444	N7	A	A 977	231.553	112.508	16.907	1.00	107.68	A16S
ATOM	20445	C8	A	A 977	231.317	113.146	18.025	1.00	107.68	A16S
ATOM	20446	C2*	A	A 977	233.756	114.824	20.460	1.00	79.12	A16S
ATOM	20447	O2*	A	A 977	233.603	114.572	21.843	1.00	79.12	A16S
ATOM	20448	C3*	A	A 977	234.076	116.291	20.171	1.00	79.12	A16S
ATOM	20449	O3*	A	A 977	234.767	116.922	21.259	1.00	79.12	A16S
ATOM	20450	P	A	A 978	236.382	116.928	21.326	1.00	76.85	A16S
ATOM	20451	O1P	A	A 978	236.730	118.053	22.244	1.00	87.61	A16S
ATOM	20452	O2P	A	A 978	236.955	116.906	19.952	1.00	87.61	A16S
ATOM	20453	O5*	A	A 978	236.745	115.559	22.064	1.00	76.85	A16S
ATOM	20454	C5*	A	A 978	236.766	114.309	21.352	1.00	76.85	A16S
ATOM	20455	C4*	A	A 978	237.700	113.342	22.034	1.00	76.85	A16S
ATOM	20456	O4*	A	A 978	239.027	113.910	22.039	1.00	76.85	A16S
ATOM	20457	C1*	A	A 978	239.683	113.588	23.252	1.00	76.85	A16S
ATOM	20458	N9	A	A 978	240.140	114.832	23.869	1.00	87.61	A16S
ATOM	20459	C4	A	A 978	241.293	114.988	24.597	1.00	87.61	A16S
ATOM	20460	N3	A	A 978	242.196	114.040	24.902	1.00	87.61	A16S
ATOM	20461	C2	A	A 978	243.192	114.560	25.600	1.00	87.61	A16S
ATOM	20462	N1	A	A 978	243.384	115.830	25.992	1.00	87.61	A16S
ATOM	20463	C6	A	A 978	242.462	116.759	25.661	1.00	87.61	A16S
ATOM	20464	N6	A	A 978	242.663	118.029	26.031	1.00	87.61	A16S
ATOM	20465	C5	A	A 978	241.345	116.330	24.935	1.00	87.61	A16S
ATOM	20466	N7	A	A 978	240.234	117.006	24.448	1.00	87.61	A16S
ATOM	20467	C8	A	A 978	239.548	116.076	23.829	1.00	87.61	A16S
ATOM	20468	C2*	A	A 978	238.743	112.743	24.110	1.00	76.85	A16S
ATOM	20469	O2*	A	A 978	239.162	111.395	24.029	1.00	76.85	A16S
ATOM	20470	C3*	A	A 978	237.377	113.055	23.492	1.00	76.85	A16S
ATOM	20471	O3*	A	A 978	236.497	111.941	23.554	1.00	76.85	A16S
ATOM	20472	P	C	A 979	235.073	112.088	24.268	1.00	102.38	A16S
ATOM	20473	O1P	C	A 979	234.339	110.792	24.079	1.00	74.69	A16S
ATOM	20474	O2P	C	A 979	234.468	113.356	23.807	1.00	74.69	A16S
ATOM	20475	O5*	C	A 979	235.461	112.251	25.801	1.00	102.38	A16S



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ATOM	20476	C5*	C	A	979	236.119	111.180	26.499	1.00102.38	A16S
ATOM	20477	C4*	C	A	979	236.251	111.502	27.965	1.00102.38	A16S
ATOM	20478	O4*	C	A	979	237.285	112.500	28.163	1.00102.38	A16S
ATOM	20479	C1*	C	A	979	236.947	113.319	29.268	1.00102.38	A16S
ATOM	20480	N1	C	A	979	236.812	114.714	28.801	1.00 74.69	A16S
ATOM	20481	C6	C	A	979	236.755	115.003	27.468	1.00 74.69	A16S
ATOM	20482	C2	C	A	979	236.725	115.748	29.753	1.00 74.69	A16S
ATOM	20483	O2	C	A	979	236.798	115.469	30.968	1.00 74.69	A16S
ATOM	20484	N3	C	A	979	236.562	117.027	29.325	1.00 74.69	A16S
ATOM	20485	C4	C	A	979	236.493	117.293	28.017	1.00 74.69	A16S
ATOM	20486	N4	C	A	979	236.319	118.576	27.637	1.00 74.69	A16S
ATOM	20487	C5	C	A	979	236.597	116.264	27.037	1.00 74.69	A16S
ATOM	20488	C2*	C	A	979	235.645	112.774	29.860	1.00102.38	A16S
ATOM	20489	O2*	C	A	979	235.983	111.885	30.912	1.00102.38	A16S
ATOM	20490	C3*	C	A	979	235.022	112.077	28.652	1.00102.38	A16S
ATOM	20491	O3*	C	A	979	234.067	111.065	29.002	1.00102.38	A16S
ATOM	20492	P	C	A	980	232.532	111.185	28.487	1.00 96.02	A16S
ATOM	20493	O1P	C	A	980	231.722	110.225	29.331	1.00 97.77	A16S
ATOM	20494	O2P	C	A	980	232.510	111.046	27.001	1.00 97.77	A16S
ATOM	20495	O5*	C	A	980	232.128	112.701	28.809	1.00 96.02	A16S
ATOM	20496	C5*	C	A	980	232.174	113.201	30.158	1.00 96.02	A16S
ATOM	20497	C4*	C	A	980	231.875	114.685	30.209	1.00 96.02	A16S
ATOM	20498	O4*	C	A	980	232.941	115.459	29.608	1.00 96.02	A16S
ATOM	20499	C1*	C	A	980	232.411	116.672	29.098	1.00 96.02	A16S
ATOM	20500	N1	C	A	980	232.815	116.814	27.690	1.00 97.77	A16S
ATOM	20501	C6	C	A	980	233.075	115.710	26.929	1.00 97.77	A16S
ATOM	20502	C2	C	A	980	232.938	118.111	27.130	1.00 97.77	A16S
ATOM	20503	O2	C	A	980	232.695	119.115	27.830	1.00 97.77	A16S
ATOM	20504	N3	C	A	980	233.320	118.233	25.843	1.00 97.77	A16S
ATOM	20505	C4	C	A	980	233.578	117.142	25.117	1.00 97.77	A16S
ATOM	20506	N4	C	A	980	233.968	117.313	23.853	1.00 97.77	A16S
ATOM	20507	C5	C	A	980	233.454	115.826	25.654	1.00 97.77	A16S
ATOM	20508	C2*	C	A	980	230.896	116.655	29.310	1.00 96.02	A16S
ATOM	20509	O2*	C	A	980	230.595	117.444	30.440	1.00 96.02	A16S
ATOM	20510	C3*	C	A	980	230.617	115.169	29.519	1.00 96.02	A16S
ATOM	20511	O3*	C	A	980	229.487	114.963	30.344	1.00 96.02	A16S
ATOM	20512	P	U	A	981	228.165	114.312	29.719	1.00 98.12	A16S
ATOM	20513	O1P	U	A	981	227.041	114.535	30.679	1.00 87.63	A16S
ATOM	20514	O2P	U	A	981	228.513	112.927	29.306	1.00 87.63	A16S
ATOM	20515	O5*	U	A	981	227.888	115.210	28.431	1.00 98.12	A16S
ATOM	20516	C5*	U	A	981	227.552	116.605	28.576	1.00 98.12	A16S
ATOM	20517	C4*	U	A	981	227.711	117.340	27.264	1.00 98.12	A16S
ATOM	20518	O4*	U	A	981	229.102	117.318	26.856	1.00 98.12	A16S
ATOM	20519	C1*	U	A	981	229.187	117.255	25.442	1.00 98.12	A16S
ATOM	20520	N1	U	A	981	229.888	116.016	25.057	1.00 87.63	A16S
ATOM	20521	C6	U	A	981	229.906	114.909	25.881	1.00 87.63	A16S
ATOM	20522	C2	U	A	981	230.528	115.986	23.822	1.00 87.63	A16S
ATOM	20523	O2	U	A	981	230.547	116.945	23.054	1.00 87.63	A16S
ATOM	20524	N3	U	A	981	231.145	114.793	23.517	1.00 87.63	A16S
ATOM	20525	C4	U	A	981	231.192	113.651	24.295	1.00 87.63	A16S
ATOM	20526	O4	U	A	981	231.775	112.648	23.873	1.00 87.63	A16S
ATOM	20527	C5	U	A	981	230.520	113.762	25.550	1.00 87.63	A16S
ATOM	20528	C2*	U	A	981	227.762	117.317	24.891	1.00 98.12	A16S
ATOM	20529	O2*	U	A	981	227.467	118.662	24.561	1.00 98.12	A16S
ATOM	20530	C3*	U	A	981	226.949	116.786	26.068	1.00 98.12	A16S
ATOM	20531	O3*	U	A	981	225.593	117.234	26.041	1.00 98.12	A16S
ATOM	20532	P	U	A	982	224.452	116.290	25.409	1.00 93.76	A16S
ATOM	20533	O1P	U	A	982	224.761	116.191	23.961	1.00 83.93	A16S
ATOM	20534	O2P	U	A	982	223.134	116.834	25.838	1.00 83.93	A16S
ATOM	20535	O5*	U	A	982	224.708	114.860	26.083	1.00 93.76	A16S
ATOM	20536	C5*	U	A	982	223.705	113.817	26.039	1.00 93.76	A16S
ATOM	20537	C4*	U	A	982	224.353	112.446	25.934	1.00 93.76	A16S
ATOM	20538	O4*	U	A	982	225.028	112.316	24.655	1.00 93.76	A16S
ATOM	20539	C1*	U	A	982	226.384	111.943	24.857	1.00 93.76	A16S
ATOM	20540	N1	U	A	982	227.213	112.563	23.800	1.00 83.93	A16S
ATOM	20541	C6	U	A	982	226.891	113.804	23.283	1.00 83.93	A16S
ATOM	20542	C2	U	A	982	228.316	111.856	23.310	1.00 83.93	A16S
ATOM	20543	O2	U	A	982	228.682	110.780	23.754	1.00 83.93	A16S
ATOM	20544	N3	U	A	982	228.976	112.469	22.274	1.00 83.93	A16S
ATOM	20545	C4	U	A	982	228.671	113.688	21.688	1.00 83.93	A16S
ATOM	20546	O4	U	A	982	229.257	114.030	20.657	1.00 83.93	A16S
ATOM	20547	C5	U	A	982	227.564	114.370	22.276	1.00 83.93	A16S
ATOM	20548	C2*	U	A	982	226.714	112.341	26.297	1.00 93.76	A16S
ATOM	20549	O2*	U	A	982	227.739	111.510	26.801	1.00 93.76	A16S
ATOM	20550	C3*	U	A	982	225.382	112.083	26.999	1.00 93.76	A16S
ATOM	20551	O3*	U	A	982	225.304	110.679	27.246	1.00 93.76	A16S
ATOM	20552	P	A	A	983	224.412	110.118	28.460	1.00 85.44	A16S



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ATOM	20553	O1P	A	A	983	224.227	111.221	29.453	1.00	81.77	A16S
ATOM	20554	O2P	A	A	983	224.997	108.812	28.904	1.00	81.77	A16S
ATOM	20555	O5*	A	A	983	223.002	109.810	27.779	1.00	85.44	A16S
ATOM	20556	C5*	A	A	983	222.836	108.665	26.907	1.00	85.44	A16S
ATOM	20557	C4*	A	A	983	221.775	108.939	25.862	1.00	85.44	A16S
ATOM	20558	O4*	A	A	983	222.036	110.218	25.240	1.00	85.44	A16S
ATOM	20559	C1*	A	A	983	221.579	110.185	23.913	1.00	85.44	A16S
ATOM	20560	N9	A	A	983	222.585	110.812	23.063	1.00	81.77	A16S
ATOM	20561	C4	A	A	983	223.731	110.258	22.551	1.00	81.77	A16S
ATOM	20562	N3	A	A	983	224.179	109.002	22.721	1.00	81.77	A16S
ATOM	20563	C2	A	A	983	225.330	108.831	22.082	1.00	81.77	A16S
ATOM	20564	N1	A	A	983	226.029	109.709	21.343	1.00	81.77	A16S
ATOM	20565	C6	A	A	983	225.542	110.959	21.187	1.00	81.77	A16S
ATOM	20566	N6	A	A	983	226.223	111.834	20.437	1.00	81.77	A16S
ATOM	20567	C5	A	A	983	224.338	111.266	21.819	1.00	81.77	A16S
ATOM	20568	N7	A	A	983	223.591	112.431	21.870	1.00	81.77	A16S
ATOM	20569	C8	A	A	983	222.564	112.109	22.616	1.00	81.77	A16S
ATOM	20570	C2*	A	A	983	221.158	108.755	23.562	1.00	85.44	A16S
ATOM	20571	O2*	A	A	983	219.755	108.695	23.523	1.00	85.44	A16S
ATOM	20572	C3*	A	A	983	221.727	107.938	24.716	1.00	85.44	A16S
ATOM	20573	O3*	A	A	983	220.815	106.879	25.014	1.00	85.44	A16S
ATOM	20574	P	C	A	984	221.331	105.536	25.744	1.00	95.56	A16S
ATOM	20575	O1P	C	A	984	220.165	104.616	25.901	1.00	98.20	A16S
ATOM	20576	O2P	C	A	984	222.110	105.938	26.950	1.00	98.20	A16S
ATOM	20577	O5*	C	A	984	222.337	104.865	24.704	1.00	95.56	A16S
ATOM	20578	C5*	C	A	984	221.859	104.294	23.474	1.00	95.56	A16S
ATOM	20579	C4*	C	A	984	222.989	103.627	22.730	1.00	95.56	A16S
ATOM	20580	O4*	C	A	984	223.975	104.616	22.341	1.00	95.56	A16S
ATOM	20581	C1*	C	A	984	225.263	104.025	22.336	1.00	95.56	A16S
ATOM	20582	N1	C	A	984	226.174	104.837	23.176	1.00	98.20	A16S
ATOM	20583	C6	C	A	984	225.702	105.871	23.935	1.00	98.20	A16S
ATOM	20584	C2	C	A	984	227.557	104.525	23.185	1.00	98.20	A16S
ATOM	20585	O2	C	A	984	227.985	103.598	22.464	1.00	98.20	A16S
ATOM	20586	N3	C	A	984	228.387	105.246	23.969	1.00	98.20	A16S
ATOM	20587	C4	C	A	984	227.907	106.241	24.708	1.00	98.20	A16S
ATOM	20588	N4	C	A	984	228.767	106.908	25.464	1.00	98.20	A16S
ATOM	20589	C5	C	A	984	226.525	106.593	24.704	1.00	98.20	A16S
ATOM	20590	C2*	C	A	984	225.118	102.566	22.783	1.00	95.56	A16S
ATOM	20591	O2*	C	A	984	225.102	101.713	21.653	1.00	95.56	A16S
ATOM	20592	C3*	C	A	984	223.780	102.593	23.510	1.00	95.56	A16S
ATOM	20593	O3*	C	A	984	223.152	101.322	23.491	1.00	95.56	A16S
ATOM	20594	P	C	A	985	223.420	100.298	24.694	1.00	93.53	A16S
ATOM	20595	O1P	C	A	985	222.620	99.066	24.439	1.00	86.80	A16S
ATOM	20596	O2P	C	A	985	223.244	101.049	25.967	1.00	86.80	A16S
ATOM	20597	O5*	C	A	985	224.958	99.927	24.540	1.00	93.53	A16S
ATOM	20598	C5*	C	A	985	225.396	99.119	23.444	1.00	93.53	A16S
ATOM	20599	C4*	C	A	985	226.846	98.764	23.607	1.00	93.53	A16S
ATOM	20600	O4*	C	A	985	227.650	99.960	23.467	1.00	93.53	A16S
ATOM	20601	C1*	C	A	985	228.762	99.886	24.336	1.00	93.53	A16S
ATOM	20602	N1	C	A	985	228.737	101.042	25.246	1.00	86.80	A16S
ATOM	20603	C6	C	A	985	227.600	101.777	25.426	1.00	86.80	A16S
ATOM	20604	C2	C	A	985	229.906	101.375	25.933	1.00	86.80	A16S
ATOM	20605	O2	C	A	985	230.928	100.705	25.733	1.00	86.80	A16S
ATOM	20606	N3	C	A	985	229.899	102.417	26.788	1.00	86.80	A16S
ATOM	20607	C4	C	A	985	228.787	103.126	26.959	1.00	86.80	A16S
ATOM	20608	N4	C	A	985	228.828	104.149	27.808	1.00	86.80	A16S
ATOM	20609	C5	C	A	985	227.582	102.819	26.264	1.00	86.80	A16S
ATOM	20610	C2*	C	A	985	228.695	98.554	25.082	1.00	93.53	A16S
ATOM	20611	O2*	C	A	985	229.532	97.622	24.438	1.00	93.53	A16S
ATOM	20612	C3*	C	A	985	227.215	98.211	24.970	1.00	93.53	A16S
ATOM	20613	O3*	C	A	985	226.949	96.815	25.076	1.00	93.53	A16S
ATOM	20614	P	A	A	986	226.676	96.168	26.528	1.00	104.60	A16S
ATOM	20615	O1P	A	A	986	226.199	94.771	26.316	1.00	97.10	A16S
ATOM	20616	O2P	A	A	986	225.835	97.128	27.308	1.00	97.10	A16S
ATOM	20617	O5*	A	A	986	228.121	96.116	27.209	1.00	104.60	A16S
ATOM	20618	C5*	A	A	986	229.123	95.181	26.759	1.00	104.60	A16S
ATOM	20619	C4*	A	A	986	230.402	95.356	27.545	1.00	104.60	A16S
ATOM	20620	O4*	A	A	986	230.977	96.660	27.268	1.00	104.60	A16S
ATOM	20621	C1*	A	A	986	231.638	97.149	28.427	1.00	104.60	A16S
ATOM	20622	N9	A	A	986	230.984	98.384	28.849	1.00	97.10	A16S
ATOM	20623	C4	A	A	986	231.584	99.406	29.541	1.00	97.10	A16S
ATOM	20624	N3	A	A	986	232.855	99.459	29.975	1.00	97.10	A16S
ATOM	20625	C2	A	A	986	233.091	100.612	30.594	1.00	97.10	A16S
ATOM	20626	N1	A	A	986	232.264	101.646	30.805	1.00	97.10	A16S
ATOM	20627	C6	A	A	986	230.993	101.560	30.352	1.00	97.10	A16S
ATOM	20628	N6	A	A	986	230.172	102.591	30.550	1.00	97.10	A16S
ATOM	20629	C5	A	A	986	230.613	100.381	29.691	1.00	97.10	A16S



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ATOM	20630	N7	A	A	986	229.411	99.971	29.127	1.00	97.10	A16S
ATOM	20631	C8	A	A	986	229.681	98.782	28.645	1.00	97.10	A16S
ATOM	20632	C2*	A	A	986	231.527	96.085	29.509	1.00104.60		A16S
ATOM	20633	O2*	A	A	986	232.710	95.309	29.500	1.00104.60		A16S
ATOM	20634	C3*	A	A	986	230.277	95.336	29.060	1.00104.60		A16S
ATOM	20635	O3*	A	A	986	230.189	94.032	29.600	1.00104.60		A16S
ATOM	20636	P	G	A	987	229.286	93.787	30.906	1.00110.32		A16S
ATOM	20637	O1P	G	A	987	229.213	92.304	31.057	1.00	99.28	A16S
ATOM	20638	O2P	G	A	987	228.030	94.580	30.780	1.00	99.28	A16S
ATOM	20639	O5*	G	A	987	230.132	94.430	32.102	1.00110.32		A16S
ATOM	20640	C5*	G	A	987	231.343	93.795	32.573	1.00110.32		A16S
ATOM	20641	C4*	G	A	987	232.245	94.791	33.276	1.00110.32		A16S
ATOM	20642	O4*	G	A	987	232.369	95.978	32.452	1.00110.32		A16S
ATOM	20643	C1*	G	A	987	232.540	97.114	33.274	1.00110.32		A16S
ATOM	20644	N9	G	A	987	231.427	98.029	33.049	1.00	99.28	A16S
ATOM	20645	C4	G	A	987	231.361	99.323	33.493	1.00	99.28	A16S
ATOM	20646	N3	G	A	987	232.319	99.963	34.198	1.00	99.28	A16S
ATOM	20647	C2	G	A	987	231.965	101.201	34.498	1.00	99.28	A16S
ATOM	20648	N2	G	A	987	232.795	101.970	35.215	1.00	99.28	A16S
ATOM	20649	N1	G	A	987	230.768	101.772	34.124	1.00	99.28	A16S
ATOM	20650	C6	G	A	987	229.766	101.130	33.400	1.00	99.28	A16S
ATOM	20651	O6	G	A	987	228.720	101.734	33.125	1.00	99.28	A16S
ATOM	20652	C5	G	A	987	230.132	99.794	33.077	1.00	99.28	A16S
ATOM	20653	N7	G	A	987	229.442	98.814	32.374	1.00	99.28	A16S
ATOM	20654	C8	G	A	987	230.248	97.785	32.381	1.00	99.28	A16S
ATOM	20655	C2*	G	A	987	232.572	96.639	34.722	1.00110.32		A16S
ATOM	20656	O2*	G	A	987	233.919	96.475	35.103	1.00110.32		A16S
ATOM	20657	C3*	G	A	987	231.805	95.326	34.630	1.00110.32		A16S
ATOM	20658	O3*	G	A	987	232.139	94.446	35.702	1.00110.32		A16S
ATOM	20659	P	G	A	988	231.213	94.410	37.024	1.00110.56		A16S
ATOM	20660	O1P	G	A	988	231.704	93.270	37.850	1.00110.29		A16S
ATOM	20661	O2P	G	A	988	229.782	94.451	36.615	1.00110.29		A16S
ATOM	20662	O5*	G	A	988	231.551	95.779	37.774	1.00110.56		A16S
ATOM	20663	C5*	G	A	988	232.816	95.954	38.450	1.00110.56		A16S
ATOM	20664	C4*	G	A	988	232.855	97.265	39.206	1.00110.56		A16S
ATOM	20665	O4*	G	A	988	232.885	98.375	38.273	1.00110.56		A16S
ATOM	20666	C1*	G	A	988	232.197	99.485	38.826	1.00110.56		A16S
ATOM	20667	N9	G	A	988	231.027	99.754	38.001	1.00110.29		A16S
ATOM	20668	C4	G	A	988	230.402	100.964	37.857	1.00110.29		A16S
ATOM	20669	N3	G	A	988	230.788	102.122	38.426	1.00110.29		A16S
ATOM	20670	C2	G	A	988	229.976	103.114	38.121	1.00110.29		A16S
ATOM	20671	N2	G	A	988	230.214	104.343	38.605	1.00110.29		A16S
ATOM	20672	N1	G	A	988	228.872	102.979	37.315	1.00110.29		A16S
ATOM	20673	C6	G	A	988	228.458	101.796	36.710	1.00110.29		A16S
ATOM	20674	O6	G	A	988	227.448	101.788	35.989	1.00110.29		A16S
ATOM	20675	C5	G	A	988	229.319	100.722	37.036	1.00110.29		A16S
ATOM	20676	N7	G	A	988	229.273	99.387	36.660	1.00110.29		A16S
ATOM	20677	C8	G	A	988	230.308	98.852	37.248	1.00110.29		A16S
ATOM	20678	C2*	G	A	988	231.739	99.098	40.231	1.00110.56		A16S
ATOM	20679	O2*	G	A	988	232.643	99.583	41.209	1.00110.56		A16S
ATOM	20680	C3*	G	A	988	231.677	97.579	40.117	1.00110.56		A16S
ATOM	20681	O3*	G	A	988	231.736	96.938	41.378	1.00110.56		A16S
ATOM	20682	P	C	A	989	230.370	96.501	42.098	1.00135.30		A16S
ATOM	20683	O1P	C	A	989	230.776	95.964	43.412	1.00121.09		A16S
ATOM	20684	O2P	C	A	989	229.598	95.642	41.166	1.00121.09		A16S
ATOM	20685	O5*	C	A	989	229.597	97.881	42.332	1.00135.30		A16S
ATOM	20686	C5*	C	A	989	230.124	98.855	43.255	1.00135.30		A16S
ATOM	20687	C4*	C	A	989	229.376	100.176	43.174	1.00135.30		A16S
ATOM	20688	O4*	C	A	989	229.410	100.698	41.815	1.00135.30		A16S
ATOM	20689	C1*	C	A	989	228.314	101.590	41.623	1.00135.30		A16S
ATOM	20690	N1	C	A	989	227.444	101.116	40.526	1.00121.09		A16S
ATOM	20691	C6	C	A	989	227.294	99.780	40.256	1.00121.09		A16S
ATOM	20692	C2	C	A	989	226.723	102.072	39.785	1.00121.09		A16S
ATOM	20693	O2	C	A	989	226.910	103.281	40.016	1.00121.09		A16S
ATOM	20694	N3	C	A	989	225.847	101.654	38.844	1.00121.09		A16S
ATOM	20695	C4	C	A	989	225.680	100.346	38.620	1.00121.09		A16S
ATOM	20696	N4	C	A	989	224.778	99.978	37.710	1.00121.09		A16S
ATOM	20697	C5	C	A	989	226.428	99.356	39.326	1.00121.09		A16S
ATOM	20698	C2*	C	A	989	227.500	101.595	42.913	1.00135.30		A16S
ATOM	20699	O2*	C	A	989	227.862	102.724	43.689	1.00135.30		A16S
ATOM	20700	C3*	C	A	989	227.894	100.256	43.533	1.00135.30		A16S
ATOM	20701	O3*	C	A	989	227.597	100.245	44.928	1.00135.30		A16S
ATOM	20702	P	C	A	990	226.096	99.890	45.417	1.00117.25		A16S
ATOM	20703	O1P	C	A	990	226.166	99.725	46.888	1.00124.01		A16S
ATOM	20704	O2P	C	A	990	225.561	98.778	44.582	1.00124.01		A16S
ATOM	20705	O5*	C	A	990	225.242	101.201	45.091	1.00117.25		A16S
ATOM	20706	C5*	C	A	990	225.618	102.494	45.625	1.00117.25		A16S



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ATOM	20707	C4*	C	A	990	224.581	103.548	45.276	1.00117.25	A16S
ATOM	20708	O4*	C	A	990	224.571	103.800	43.844	1.00117.25	A16S
ATOM	20709	C1*	C	A	990	223.245	104.095	43.415	1.00117.25	A16S
ATOM	20710	N1	C	A	990	222.825	103.099	42.392	1.00124.01	A16S
ATOM	20711	C6	C	A	990	223.411	101.861	42.330	1.00124.01	A16S
ATOM	20712	C2	C	A	990	221.800	103.439	41.480	1.00124.01	A16S
ATOM	20713	O2	C	A	990	221.277	104.567	41.541	1.00124.01	A16S
ATOM	20714	N3	C	A	990	221.408	102.525	40.558	1.00124.01	A16S
ATOM	20715	C4	C	A	990	221.988	101.322	40.517	1.00124.01	A16S
ATOM	20716	N4	C	A	990	221.566	100.456	39.595	1.00124.01	A16S
ATOM	20717	C5	C	A	990	223.027	100.954	41.419	1.00124.01	A16S
ATOM	20718	C2*	C	A	990	222.348	104.098	44.655	1.00117.25	A16S
ATOM	20719	O2*	C	A	990	222.188	105.431	45.106	1.00117.25	A16S
ATOM	20720	C3*	C	A	990	223.138	103.208	45.615	1.00117.25	A16S
ATOM	20721	O3*	C	A	990	222.841	103.460	46.985	1.00117.25	A16S
ATOM	20722	P	U	A	991	222.163	102.307	47.882	1.00156.04	A16S
ATOM	20723	O1P	U	A	991	222.992	102.179	49.107	1.00152.61	A16S
ATOM	20724	O2P	U	A	991	221.893	101.104	47.050	1.00152.61	A16S
ATOM	20725	O5*	U	A	991	220.772	102.947	48.313	1.00156.04	A16S
ATOM	20726	C5*	U	A	991	219.518	102.432	47.826	1.00156.04	A16S
ATOM	20727	C4*	U	A	991	218.818	103.485	47.005	1.00156.04	A16S
ATOM	20728	O4*	U	A	991	219.464	103.576	45.711	1.00156.04	A16S
ATOM	20729	C1*	U	A	991	218.496	103.822	44.708	1.00156.04	A16S
ATOM	20730	N1	U	A	991	218.546	102.714	43.735	1.00152.61	A16S
ATOM	20731	C6	U	A	991	219.177	101.526	44.042	1.00152.61	A16S
ATOM	20732	C2	U	A	991	217.955	102.897	42.487	1.00152.61	A16S
ATOM	20733	O2	U	A	991	217.371	103.914	42.167	1.00152.61	A16S
ATOM	20734	N3	U	A	991	218.077	101.833	41.627	1.00152.61	A16S
ATOM	20735	C4	U	A	991	218.706	100.630	41.873	1.00152.61	A16S
ATOM	20736	O4	U	A	991	218.747	99.776	40.989	1.00152.61	A16S
ATOM	20737	C5	U	A	991	219.275	100.510	43.177	1.00152.61	A16S
ATOM	20738	C2*	U	A	991	217.147	104.020	45.406	1.00156.04	A16S
ATOM	20739	O2*	U	A	991	216.974	105.403	45.655	1.00156.04	A16S
ATOM	20740	C3*	U	A	991	217.345	103.241	46.704	1.00156.04	A16S
ATOM	20741	O3*	U	A	991	216.579	103.760	47.800	1.00156.04	A16S
ATOM	20742	P	U	A	992	214.965	103.850	47.721	1.00113.37	A16S
ATOM	20743	O1P	U	A	992	214.397	102.738	48.546	1.00128.20	A16S
ATOM	20744	O2P	U	A	992	214.533	104.001	46.312	1.00128.20	A16S
ATOM	20745	O5*	U	A	992	214.666	105.237	48.448	1.00113.37	A16S
ATOM	20746	C5*	U	A	992	215.609	106.314	48.352	1.00113.37	A16S
ATOM	20747	C4*	U	A	992	214.932	107.560	47.848	1.00113.37	A16S
ATOM	20748	O4*	U	A	992	213.823	107.186	46.988	1.00113.37	A16S
ATOM	20749	C1*	U	A	992	212.843	108.212	47.012	1.00113.37	A16S
ATOM	20750	N1	U	A	992	211.486	107.629	47.054	1.00128.20	A16S
ATOM	20751	C6	U	A	992	211.288	106.265	47.096	1.00128.20	A16S
ATOM	20752	C2	U	A	992	210.390	108.506	47.018	1.00128.20	A16S
ATOM	20753	O2	U	A	992	210.498	109.724	47.026	1.00128.20	A16S
ATOM	20754	N3	U	A	992	209.162	107.899	46.981	1.00128.20	A16S
ATOM	20755	C4	U	A	992	208.903	106.546	46.991	1.00128.20	A16S
ATOM	20756	O4	U	A	992	207.736	106.157	46.896	1.00128.20	A16S
ATOM	20757	C5	U	A	992	210.070	105.710	47.067	1.00128.20	A16S
ATOM	20758	C2*	U	A	992	213.219	109.223	48.100	1.00113.37	A16S
ATOM	20759	O2*	U	A	992	213.643	110.406	47.454	1.00113.37	A16S
ATOM	20760	C3*	U	A	992	214.295	108.467	48.889	1.00113.37	A16S
ATOM	20761	O3*	U	A	992	215.280	109.272	49.572	1.00113.37	A16S
ATOM	20762	P	G	A	993	216.080	110.442	48.792	1.00162.47	A16S
ATOM	20763	O1P	G	A	993	217.379	110.586	49.491	1.00 88.83	A16S
ATOM	20764	O2P	G	A	993	215.227	111.646	48.599	1.00 88.83	A16S
ATOM	20765	O5*	G	A	993	216.398	109.785	47.376	1.00162.47	A16S
ATOM	20766	C5*	G	A	993	216.634	110.581	46.202	1.00162.47	A16S
ATOM	20767	C4*	G	A	993	217.396	109.766	45.189	1.00162.47	A16S
ATOM	20768	O4*	G	A	993	216.765	108.469	45.071	1.00162.47	A16S
ATOM	20769	C1*	G	A	993	216.891	108.001	43.746	1.00162.47	A16S
ATOM	20770	N9	G	A	993	215.621	107.394	43.327	1.00 88.83	A16S
ATOM	20771	C4	G	A	993	214.356	107.960	43.307	1.00 88.83	A16S
ATOM	20772	N3	G	A	993	214.041	109.242	43.609	1.00 88.83	A16S
ATOM	20773	C2	G	A	993	212.731	109.457	43.545	1.00 88.83	A16S
ATOM	20774	N2	G	A	993	212.233	110.684	43.814	1.00 88.83	A16S
ATOM	20775	N1	G	A	993	211.812	108.487	43.212	1.00 88.83	A16S
ATOM	20776	C6	G	A	993	212.119	107.164	42.897	1.00 88.83	A16S
ATOM	20777	O6	G	A	993	211.219	106.363	42.622	1.00 88.83	A16S
ATOM	20778	C5	G	A	993	213.504	106.925	42.952	1.00 88.83	A16S
ATOM	20779	N7	G	A	993	214.212	105.759	42.706	1.00 88.83	A16S
ATOM	20780	C8	G	A	993	215.457	106.084	42.927	1.00 88.83	A16S
ATOM	20781	C2*	G	A	993	217.594	109.069	42.896	1.00162.47	A16S
ATOM	20782	O2*	G	A	993	218.929	108.654	42.682	1.00162.47	A16S
ATOM	20783	C3*	G	A	993	217.463	110.319	43.773	1.00162.47	A16S



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ATOM	20784	O3*	G	A	993	218.482	111.339	43.640	1.00162.47	A16S
ATOM	20785	P	A	A	994	220.059	111.004	43.879	1.00113.30	A16S
ATOM	20786	O1P	A	A	994	220.675	110.535	42.618	1.00109.46	A16S
ATOM	20787	O2P	A	A	994	220.242	110.192	45.103	1.00109.46	A16S
ATOM	20788	O5*	A	A	994	220.665	112.447	44.177	1.00113.30	A16S
ATOM	20789	C5*	A	A	994	221.996	112.808	43.763	1.00113.30	A16S
ATOM	20790	C4*	A	A	994	221.939	113.761	42.584	1.00113.30	A16S
ATOM	20791	O4*	A	A	994	221.811	113.019	41.344	1.00113.30	A16S
ATOM	20792	C1*	A	A	994	221.013	113.753	40.422	1.00113.30	A16S
ATOM	20793	N9	A	A	994	219.858	112.926	40.039	1.00109.46	A16S
ATOM	20794	C4	A	A	994	218.747	113.334	39.333	1.00109.46	A16S
ATOM	20795	N3	A	A	994	218.486	114.564	38.855	1.00109.46	A16S
ATOM	20796	C2	A	A	994	217.316	114.582	38.220	1.00109.46	A16S
ATOM	20797	N1	A	A	994	216.444	113.587	38.023	1.00109.46	A16S
ATOM	20798	C6	A	A	994	216.738	112.360	38.515	1.00109.46	A16S
ATOM	20799	N6	A	A	994	215.874	111.359	38.317	1.00109.46	A16S
ATOM	20800	C5	A	A	994	217.946	112.209	39.209	1.00109.46	A16S
ATOM	20801	N7	A	A	994	218.534	111.112	39.823	1.00109.46	A16S
ATOM	20802	C8	A	A	994	219.660	111.586	40.297	1.00109.46	A16S
ATOM	20803	C2*	A	A	994	220.646	115.089	41.080	1.00113.30	A16S
ATOM	20804	O2*	A	A	994	221.539	116.098	40.640	1.00113.30	A16S
ATOM	20805	C3*	A	A	994	220.780	114.751	42.564	1.00113.30	A16S
ATOM	20806	O3*	A	A	994	221.027	115.897	43.372	1.00113.30	A16S
ATOM	20807	P	C	A	995	219.806	116.609	44.140	1.00131.37	A16S
ATOM	20808	O1P	C	A	995	220.361	117.428	45.243	1.00108.09	A16S
ATOM	20809	O2P	C	A	995	218.761	115.589	44.439	1.00108.09	A16S
ATOM	20810	O5*	C	A	995	219.236	117.636	43.071	1.00131.37	A16S
ATOM	20811	C5*	C	A	995	218.039	118.348	43.347	1.00131.37	A16S
ATOM	20812	C4*	C	A	995	217.339	118.721	42.071	1.00131.37	A16S
ATOM	20813	O4*	C	A	995	217.462	117.660	41.089	1.00131.37	A16S
ATOM	20814	C1*	C	A	995	216.206	117.436	40.458	1.00131.37	A16S
ATOM	20815	N1	C	A	995	215.763	116.058	40.810	1.00108.09	A16S
ATOM	20816	C6	C	A	995	216.654	115.169	41.351	1.00108.09	A16S
ATOM	20817	C2	C	A	995	214.421	115.659	40.578	1.00108.09	A16S
ATOM	20818	O2	C	A	995	213.605	116.479	40.113	1.00108.09	A16S
ATOM	20819	N3	C	A	995	214.054	114.385	40.877	1.00108.09	A16S
ATOM	20820	C4	C	A	995	214.946	113.531	41.393	1.00108.09	A16S
ATOM	20821	N4	C	A	995	214.542	112.285	41.664	1.00108.09	A16S
ATOM	20822	C5	C	A	995	216.293	113.914	41.655	1.00108.09	A16S
ATOM	20823	C2*	C	A	995	215.266	118.551	40.929	1.00131.37	A16S
ATOM	20824	O2*	C	A	995	215.326	119.663	40.056	1.00131.37	A16S
ATOM	20825	C3*	C	A	995	215.851	118.866	42.293	1.00131.37	A16S
ATOM	20826	O3*	C	A	995	215.519	120.130	42.824	1.00131.37	A16S
ATOM	20827	P	A	A	996	214.773	120.197	44.244	1.00154.65	A16S
ATOM	20828	O1P	A	A	996	215.006	121.574	44.778	1.00 79.66	A16S
ATOM	20829	O2P	A	A	996	215.186	118.998	45.049	1.00 79.66	A16S
ATOM	20830	O5*	A	A	996	213.234	120.006	43.877	1.00154.65	A16S
ATOM	20831	C5*	A	A	996	212.563	120.923	42.994	1.00154.65	A16S
ATOM	20832	C4*	A	A	996	211.084	120.649	42.997	1.00154.65	A16S
ATOM	20833	O4*	A	A	996	210.812	119.394	42.333	1.00154.65	A16S
ATOM	20834	C1*	A	A	996	209.740	118.739	42.985	1.00154.65	A16S
ATOM	20835	N9	A	A	996	210.202	117.427	43.423	1.00 79.66	A16S
ATOM	20836	C4	A	A	996	209.393	116.334	43.631	1.00 79.66	A16S
ATOM	20837	N3	A	A	996	208.051	116.287	43.536	1.00 79.66	A16S
ATOM	20838	C2	A	A	996	207.605	115.049	43.751	1.00 79.66	A16S
ATOM	20839	N1	A	A	996	208.295	113.930	44.025	1.00 79.66	A16S
ATOM	20840	C6	A	A	996	209.642	114.005	44.113	1.00 79.66	A16S
ATOM	20841	N6	A	A	996	210.325	112.876	44.359	1.00 79.66	A16S
ATOM	20842	C5	A	A	996	210.244	115.281	43.921	1.00 79.66	A16S
ATOM	20843	N7	A	A	996	211.567	115.718	43.951	1.00 79.66	A16S
ATOM	20844	C8	A	A	996	211.486	116.998	43.662	1.00 79.66	A16S
ATOM	20845	C2*	A	A	996	209.265	119.617	44.137	1.00154.65	A16S
ATOM	20846	O2*	A	A	996	208.126	120.355	43.747	1.00154.65	A16S
ATOM	20847	C3*	A	A	996	210.492	120.477	44.381	1.00154.65	A16S
ATOM	20848	O3*	A	A	996	210.165	121.717	44.953	1.00154.65	A16S
ATOM	20849	P	U	A	997	210.288	121.902	46.535	1.00176.22	A16S
ATOM	20850	O1P	U	A	997	210.530	123.351	46.713	1.00 86.60	A16S
ATOM	20851	O2P	U	A	997	211.251	120.910	47.099	1.00 86.60	A16S
ATOM	20852	O5*	U	A	997	208.852	121.492	47.082	1.00176.22	A16S
ATOM	20853	C5*	U	A	997	207.692	122.286	46.810	1.00176.22	A16S
ATOM	20854	C4*	U	A	997	206.453	121.489	47.122	1.00176.22	A16S
ATOM	20855	O4*	U	A	997	206.364	120.382	46.184	1.00176.22	A16S
ATOM	20856	C1*	U	A	997	205.831	119.239	46.839	1.00176.22	A16S
ATOM	20857	N1	U	A	997	206.870	118.201	46.906	1.00 86.60	A16S
ATOM	20858	C6	U	A	997	208.214	118.526	47.010	1.00 86.60	A16S
ATOM	20859	C2	U	A	997	206.454	116.871	46.903	1.00 86.60	A16S
ATOM	20860	O2	U	A	997	205.282	116.532	46.776	1.00 86.60	A16S



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ATOM	20861	N3	U	A	997	207.463	115.949	47.055	1.00	86.60	A16S
ATOM	20862	C4	U	A	997	208.816	116.206	47.198	1.00	86.60	A16S
ATOM	20863	O4	U	A	997	209.585	115.264	47.416	1.00	86.60	A16S
ATOM	20864	C5	U	A	997	209.173	117.602	47.154	1.00	86.60	A16S
ATOM	20865	C2*	U	A	997	205.479	119.652	48.265	1.00176.22		A16S
ATOM	20866	O2*	U	A	997	204.118	120.021	48.364	1.00176.22		A16S
ATOM	20867	C3*	U	A	997	206.441	120.807	48.484	1.00176.22		A16S
ATOM	20868	O3*	U	A	997	206.067	121.629	49.577	1.00176.22		A16S
ATOM	20869	P	G	A	998	206.583	121.251	51.056	1.00140.33		A16S
ATOM	20870	O1P	G	A	998	206.013	122.290	51.952	1.00130.35		A16S
ATOM	20871	O2P	G	A	998	208.056	121.034	51.022	1.00130.35		A16S
ATOM	20872	O5*	G	A	998	205.887	119.847	51.372	1.00140.33		A16S
ATOM	20873	C5*	G	A	998	204.454	119.741	51.391	1.00140.33		A16S
ATOM	20874	C4*	G	A	998	204.003	118.295	51.409	1.00140.33		A16S
ATOM	20875	O4*	G	A	998	204.701	117.535	50.387	1.00140.33		A16S
ATOM	20876	C1*	G	A	998	204.599	116.154	50.693	1.00140.33		A16S
ATOM	20877	N9	G	A	998	205.904	115.499	50.601	1.00130.35		A16S
ATOM	20878	C4	G	A	998	206.107	114.134	50.674	1.00130.35		A16S
ATOM	20879	N3	G	A	998	205.142	113.197	50.829	1.00130.35		A16S
ATOM	20880	C2	G	A	998	205.638	111.971	50.867	1.00130.35		A16S
ATOM	20881	N2	G	A	998	204.809	110.928	51.008	1.00130.35		A16S
ATOM	20882	N1	G	A	998	206.979	111.679	50.766	1.00130.35		A16S
ATOM	20883	C6	G	A	998	207.995	112.621	50.609	1.00130.35		A16S
ATOM	20884	O6	G	A	998	209.176	112.244	50.529	1.00130.35		A16S
ATOM	20885	C5	G	A	998	207.470	113.957	50.562	1.00130.35		A16S
ATOM	20886	N7	G	A	998	208.114	115.183	50.417	1.00130.35		A16S
ATOM	20887	C8	G	A	998	207.148	116.068	50.445	1.00130.35		A16S
ATOM	20888	C2*	G	A	998	204.040	116.037	52.107	1.00140.33		A16S
ATOM	20889	O2*	G	A	998	202.680	115.657	52.020	1.00140.33		A16S
ATOM	20890	C3*	G	A	998	204.248	117.449	52.650	1.00140.33		A16S
ATOM	20891	O3*	G	A	998	203.345	117.698	53.725	1.00140.33		A16S
ATOM	20892	P	C	A	999	203.728	117.208	55.217	1.00167.94		A16S
ATOM	20893	O1P	C	A	999	202.713	117.801	56.124	1.00128.91		A16S
ATOM	20894	O2P	C	A	999	205.173	117.473	55.458	1.00128.91		A16S
ATOM	20895	O5*	C	A	999	203.516	115.625	55.195	1.00167.94		A16S
ATOM	20896	C5*	C	A	999	202.200	115.067	55.038	1.00167.94		A16S
ATOM	20897	C4*	C	A	999	202.215	113.568	55.233	1.00167.94		A16S
ATOM	20898	O4*	C	A	999	202.963	112.924	54.169	1.00167.94		A16S
ATOM	20899	C1*	C	A	999	203.497	111.699	54.646	1.00167.94		A16S
ATOM	20900	N1	C	A	999	204.960	111.676	54.448	1.00128.91		A16S
ATOM	20901	C6	C	A	999	205.706	112.825	54.481	1.00128.91		A16S
ATOM	20902	C2	C	A	999	205.585	110.430	54.239	1.00128.91		A16S
ATOM	20903	O2	C	A	999	204.884	109.401	54.200	1.00128.91		A16S
ATOM	20904	N3	C	A	999	206.932	110.381	54.088	1.00128.91		A16S
ATOM	20905	C4	C	A	999	207.652	111.506	54.137	1.00128.91		A16S
ATOM	20906	N4	C	A	999	208.981	111.405	53.997	1.00128.91		A16S
ATOM	20907	C5	C	A	999	207.041	112.787	54.334	1.00128.91		A16S
ATOM	20908	C2*	C	A	999	203.126	111.565	56.122	1.00167.94		A16S
ATOM	20909	O2*	C	A	999	202.006	110.709	56.234	1.00167.94		A16S
ATOM	20910	C3*	C	A	999	202.836	113.015	56.506	1.00167.94		A16S
ATOM	20911	O3*	C	A	999	201.957	113.098	57.624	1.00167.94		A16S
ATOM	20912	P	U	A	1000	202.560	113.088	59.120	1.00184.06		A16S
ATOM	20913	O1P	U	A	1000	201.443	113.488	60.017	1.00154.60		A16S
ATOM	20914	O2P	U	A	1000	203.840	113.852	59.154	1.00154.60		A16S
ATOM	20915	O5*	U	A	1000	202.891	111.553	59.395	1.00184.06		A16S
ATOM	20916	C5*	U	A	1000	201.844	110.627	59.743	1.00184.06		A16S
ATOM	20917	C4*	U	A	1000	202.419	109.263	60.038	1.00184.06		A16S
ATOM	20918	O4*	U	A	1000	202.934	108.670	58.815	1.00184.06		A16S
ATOM	20919	C1*	U	A	1000	204.082	107.887	59.109	1.00184.06		A16S
ATOM	20920	N1	U	A	1000	205.246	108.482	58.429	1.00154.60		A16S
ATOM	20921	C6	U	A	1000	205.368	109.852	58.272	1.00154.60		A16S
ATOM	20922	C2	U	A	1000	206.234	107.623	57.970	1.00154.60		A16S
ATOM	20923	O2	U	A	1000	206.161	106.404	58.074	1.00154.60		A16S
ATOM	20924	N3	U	A	1000	207.315	108.246	57.387	1.00154.60		A16S
ATOM	20925	C4	U	A	1000	207.507	109.609	57.219	1.00154.60		A16S
ATOM	20926	O4	U	A	1000	208.561	110.018	56.722	1.00154.60		A16S
ATOM	20927	C5	U	A	1000	206.434	110.425	57.703	1.00154.60		A16S
ATOM	20928	C2*	U	A	1000	204.278	107.913	60.625	1.00184.06		A16S
ATOM	20929	O2*	U	A	1000	203.671	106.780	61.217	1.00184.06		A16S
ATOM	20930	C3*	U	A	1000	203.601	109.226	60.993	1.00184.06		A16S
ATOM	20931	O3*	U	A	1000	203.233	109.301	62.359	1.00184.06		A16S
ATOM	20932	P	A	A	1001	204.219	110.033	63.400	1.00198.84		A16S
ATOM	20933	O1P	A	A	1001	203.451	110.309	64.641	1.00198.84		A16S
ATOM	20934	O2P	A	A	1001	204.910	111.154	62.697	1.00198.84		A16S
ATOM	20935	O5*	A	A	1001	205.307	108.921	63.740	1.00198.84		A16S
ATOM	20936	C5*	A	A	1001	204.919	107.628	64.252	1.00198.84		A16S
ATOM	20937	C4*	A	A	1001	206.030	106.631	64.027	1.00198.84		A16S



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ATOM	20938	O4*	A	A1001	206.257	106.510	62.596	1.00198.84	A16S
ATOM	20939	C1*	A	A1001	207.650	106.444	62.328	1.00198.84	A16S
ATOM	20940	N9	A	A1001	208.033	107.673	61.616	1.00198.84	A16S
ATOM	20941	C4	A	A1001	209.194	107.896	60.906	1.00198.84	A16S
ATOM	20942	N3	A	A1001	210.206	107.034	60.698	1.00198.84	A16S
ATOM	20943	C2	A	A1001	211.169	107.607	59.977	1.00198.84	A16S
ATOM	20944	N1	A	A1001	211.234	108.850	59.477	1.00198.84	A16S
ATOM	20945	C6	A	A1001	210.203	109.692	59.702	1.00198.84	A16S
ATOM	20946	N6	A	A1001	210.268	110.931	59.204	1.00198.84	A16S
ATOM	20947	C5	A	A1001	209.115	109.207	60.455	1.00198.84	A16S
ATOM	20948	N7	A	A1001	207.924	109.795	60.858	1.00198.84	A16S
ATOM	20949	C8	A	A1001	207.319	108.850	61.536	1.00198.84	A16S
ATOM	20950	C2*	A	A1001	208.361	106.323	63.680	1.00198.84	A16S
ATOM	20951	O2*	A	A1001	208.527	104.960	64.025	1.00198.84	A16S
ATOM	20952	C3*	A	A1001	207.381	107.042	64.597	1.00198.84	A16S
ATOM	20953	O3*	A	A1001	207.539	106.700	65.970	1.00198.84	A16S
ATOM	20954	P	G	A1002	208.511	107.586	66.902	1.00198.67	A16S
ATOM	20955	O1P	G	A1002	208.052	107.406	68.303	1.00198.84	A16S
ATOM	20956	O2P	G	A1002	208.633	108.959	66.343	1.00198.84	A16S
ATOM	20957	O5*	G	A1002	209.929	106.882	66.751	1.00198.67	A16S
ATOM	20958	C5*	G	A1002	210.234	105.682	67.483	1.00198.67	A16S
ATOM	20959	C4*	G	A1002	211.667	105.270	67.244	1.00198.67	A16S
ATOM	20960	O4*	G	A1002	211.827	104.850	65.862	1.00198.67	A16S
ATOM	20961	C1*	G	A1002	213.116	105.218	65.394	1.00198.67	A16S
ATOM	20962	N9	G	A1002	212.958	106.181	64.306	1.00198.84	A16S
ATOM	20963	C4	G	A1002	213.905	106.510	63.359	1.00198.84	A16S
ATOM	20964	N3	G	A1002	215.138	105.965	63.242	1.00198.84	A16S
ATOM	20965	C2	G	A1002	215.830	106.511	62.252	1.00198.84	A16S
ATOM	20966	N2	G	A1002	217.078	106.087	61.992	1.00198.84	A16S
ATOM	20967	N1	G	A1002	215.350	107.514	61.443	1.00198.84	A16S
ATOM	20968	C6	G	A1002	214.085	108.091	61.544	1.00198.84	A16S
ATOM	20969	O6	G	A1002	213.756	108.999	60.764	1.00198.84	A16S
ATOM	20970	C5	G	A1002	213.329	107.509	62.599	1.00198.84	A16S
ATOM	20971	N7	G	A1002	212.041	107.784	63.040	1.00198.84	A16S
ATOM	20972	C8	G	A1002	211.861	106.970	64.044	1.00198.84	A16S
ATOM	20973	C2*	G	A1002	213.867	105.849	66.569	1.00198.67	A16S
ATOM	20974	O2*	G	A1002	214.671	104.875	67.209	1.00198.67	A16S
ATOM	20975	C3*	G	A1002	212.717	106.356	67.433	1.00198.67	A16S
ATOM	20976	O3*	G	A1002	213.085	106.558	68.796	1.00198.67	A16S
ATOM	20977	P	G	A1003	213.567	108.020	69.282	1.00198.84	A16S
ATOM	20978	O1P	G	A1003	213.644	107.994	70.770	1.00198.55	A16S
ATOM	20979	O2P	G	A1003	212.714	109.045	68.609	1.00198.55	A16S
ATOM	20980	O5*	G	A1003	215.054	108.152	68.708	1.00198.84	A16S
ATOM	20981	C5*	G	A1003	216.057	107.131	68.963	1.00198.84	A16S
ATOM	20982	C4*	G	A1003	217.151	107.182	67.911	1.00198.84	A16S
ATOM	20983	O4*	G	A1003	216.552	106.990	66.602	1.00198.84	A16S
ATOM	20984	C1*	G	A1003	217.187	107.829	65.653	1.00198.84	A16S
ATOM	20985	N9	G	A1003	216.199	108.786	65.153	1.00198.55	A16S
ATOM	20986	C4	G	A1003	216.316	109.560	64.023	1.00198.55	A16S
ATOM	20987	N3	G	A1003	217.371	109.576	63.183	1.00198.55	A16S
ATOM	20988	C2	G	A1003	217.193	110.419	62.184	1.00198.55	A16S
ATOM	20989	N2	G	A1003	218.157	110.570	61.271	1.00198.55	A16S
ATOM	20990	N1	G	A1003	216.061	111.182	62.012	1.00198.55	A16S
ATOM	20991	C6	G	A1003	214.960	111.183	62.863	1.00198.55	A16S
ATOM	20992	O6	G	A1003	213.989	111.908	62.614	1.00198.55	A16S
ATOM	20993	C5	G	A1003	215.144	110.287	63.951	1.00198.55	A16S
ATOM	20994	N7	G	A1003	214.310	109.985	65.020	1.00198.55	A16S
ATOM	20995	C8	G	A1003	214.975	109.094	65.705	1.00198.55	A16S
ATOM	20996	C2*	G	A1003	218.366	108.507	66.350	1.00198.84	A16S
ATOM	20997	O2*	G	A1003	219.534	107.739	66.141	1.00198.84	A16S
ATOM	20998	C3*	G	A1003	217.904	108.501	67.801	1.00198.84	A16S
ATOM	20999	O3*	G	A1003	218.994	108.572	68.712	1.00198.84	A16S
ATOM	21000	P	G	A1003A	219.106	109.820	69.719	1.00193.44	A16S
ATOM	21001	O1P	G	A1003A	219.724	109.295	70.963	1.00185.34	A16S
ATOM	21002	O2P	G	A1003A	217.781	110.497	69.784	1.00185.34	A16S
ATOM	21003	O5*	G	A1003A	220.133	110.823	69.019	1.00193.44	A16S
ATOM	21004	C5*	G	A1003A	221.561	110.688	69.206	1.00193.44	A16S
ATOM	21005	C4*	G	A1003A	222.298	111.196	67.987	1.00193.44	A16S
ATOM	21006	O4*	G	A1003A	221.646	110.619	66.824	1.00193.44	A16S
ATOM	21007	C1*	G	A1003A	221.613	111.564	65.768	1.00193.44	A16S
ATOM	21008	N9	G	A1003A	220.222	111.947	65.532	1.00185.34	A16S
ATOM	21009	C4	G	A1003A	219.693	112.376	64.342	1.00185.34	A16S
ATOM	21010	N3	G	A1003A	220.356	112.471	63.171	1.00185.34	A16S
ATOM	21011	C2	G	A1003A	219.589	112.935	62.205	1.00185.34	A16S
ATOM	21012	N2	G	A1003A	220.091	113.071	60.967	1.00185.34	A16S
ATOM	21013	N1	G	A1003A	218.274	113.294	62.378	1.00185.34	A16S
ATOM	21014	C6	G	A1003A	217.571	113.210	63.573	1.00185.34	A16S



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ATOM	21015	O6	G	A1003A	216.390	113.569	63.616	1.00185.34	A16S
ATOM	21016	C5	G	A1003A	218.380	112.696	64.617	1.00185.34	A16S
ATOM	21017	N7	G	A1003A	218.080	112.443	65.948	1.00185.34	A16S
ATOM	21018	C8	G	A1003A	219.197	111.994	66.451	1.00185.34	A16S
ATOM	21019	C2*	G	A1003A	222.418	112.780	66.219	1.00193.44	A16S
ATOM	21020	O2*	G	A1003A	223.761	112.677	65.782	1.00193.44	A16S
ATOM	21021	C3*	G	A1003A	222.259	112.700	67.731	1.00193.44	A16S
ATOM	21022	O3*	G	A1003A	223.280	113.444	68.402	1.00193.44	A16S
ATOM	21023	P	A	A1004	223.218	115.060	68.411	1.00197.31	A16S
ATOM	21024	O1P	A	A1004	224.552	115.555	67.976	1.00198.84	A16S
ATOM	21025	O2P	A	A1004	222.662	115.506	69.712	1.00198.84	A16S
ATOM	21026	O5*	A	A1004	222.142	115.415	67.286	1.00197.31	A16S
ATOM	21027	C5*	A	A1004	222.422	116.367	66.238	1.00197.31	A16S
ATOM	21028	C4*	A	A1004	221.814	115.904	64.932	1.00197.31	A16S
ATOM	21029	O4*	A	A1004	220.407	115.590	65.114	1.00197.31	A16S
ATOM	21030	C1*	A	A1004	219.720	115.780	63.889	1.00197.31	A16S
ATOM	21031	N9	A	A1004	218.511	116.584	64.116	1.00198.84	A16S
ATOM	21032	C4	A	A1004	217.449	116.301	64.950	1.00198.84	A16S
ATOM	21033	N3	A	A1004	217.303	115.245	65.770	1.00198.84	A16S
ATOM	21034	C2	A	A1004	216.134	115.303	66.411	1.00198.84	A16S
ATOM	21035	N1	A	A1004	215.165	116.228	66.332	1.00198.84	A16S
ATOM	21036	C6	A	A1004	215.340	117.276	65.498	1.00198.84	A16S
ATOM	21037	N6	A	A1004	214.372	118.195	65.409	1.00198.84	A16S
ATOM	21038	C5	A	A1004	216.541	117.334	64.765	1.00198.84	A16S
ATOM	21039	N7	A	A1004	217.026	118.255	63.851	1.00198.84	A16S
ATOM	21040	C8	A	A1004	218.193	117.771	63.504	1.00198.84	A16S
ATOM	21041	C2*	A	A1004	220.708	116.374	62.878	1.00197.31	A16S
ATOM	21042	O2*	A	A1004	221.158	115.364	62.000	1.00197.31	A16S
ATOM	21043	C3*	A	A1004	221.824	116.895	63.779	1.00197.31	A16S
ATOM	21044	O3*	A	A1004	223.079	116.899	63.106	1.00197.31	A16S
ATOM	21045	P	A	A1005	223.298	117.839	61.817	1.00198.84	A16S
ATOM	21046	O1P	A	A1005	222.461	117.288	60.719	1.00198.84	A16S
ATOM	21047	O2P	A	A1005	224.759	117.992	61.613	1.00198.84	A16S
ATOM	21048	O5*	A	A1005	222.706	119.257	62.242	1.00198.84	A16S
ATOM	21049	C5*	A	A1005	221.670	119.892	61.463	1.00198.84	A16S
ATOM	21050	C4*	A	A1005	222.102	121.277	61.029	1.00198.84	A16S
ATOM	21051	O4*	A	A1005	222.352	122.090	62.205	1.00198.84	A16S
ATOM	21052	C1*	A	A1005	223.355	123.049	61.917	1.00198.84	A16S
ATOM	21053	N9	A	A1005	224.394	122.978	62.952	1.00198.84	A16S
ATOM	21054	C4	A	A1005	224.747	123.987	63.823	1.00198.84	A16S
ATOM	21055	N3	A	A1005	224.223	125.224	63.901	1.00198.84	A16S
ATOM	21056	C2	A	A1005	224.810	125.923	64.871	1.00198.84	A16S
ATOM	21057	N1	A	A1005	225.788	125.556	65.710	1.00198.84	A16S
ATOM	21058	C6	A	A1005	226.295	124.308	65.606	1.00198.84	A16S
ATOM	21059	N6	A	A1005	227.270	123.939	66.442	1.00198.84	A16S
ATOM	21060	C5	A	A1005	225.758	123.465	64.615	1.00198.84	A16S
ATOM	21061	N7	A	A1005	226.043	122.156	64.250	1.00198.84	A16S
ATOM	21062	C8	A	A1005	225.211	121.915	63.263	1.00198.84	A16S
ATOM	21063	C2*	A	A1005	223.839	122.822	60.480	1.00198.84	A16S
ATOM	21064	O2*	A	A1005	223.236	123.783	59.634	1.00198.84	A16S
ATOM	21065	C3*	A	A1005	223.379	121.387	60.199	1.00198.84	A16S
ATOM	21066	O3*	A	A1005	223.118	121.190	58.799	1.00198.84	A16S
ATOM	21067	P	C	A1006	224.091	120.253	57.907	1.00198.84	A16S
ATOM	21068	O1P	C	A1006	223.828	120.591	56.486	1.00198.84	A16S
ATOM	21069	O2P	C	A1006	223.939	118.844	58.356	1.00198.84	A16S
ATOM	21070	O5*	C	A1006	225.573	120.740	58.253	1.00198.84	A16S
ATOM	21071	C5*	C	A1006	225.953	122.129	58.128	1.00198.84	A16S
ATOM	21072	C4*	C	A1006	227.233	122.405	58.894	1.00198.84	A16S
ATOM	21073	O4*	C	A1006	227.107	121.869	60.238	1.00198.84	A16S
ATOM	21074	C1*	C	A1006	228.371	121.418	60.695	1.00198.84	A16S
ATOM	21075	N1	C	A1006	228.265	119.997	61.092	1.00198.84	A16S
ATOM	21076	C6	C	A1006	227.647	119.080	60.284	1.00198.84	A16S
ATOM	21077	C2	C	A1006	228.816	119.595	62.322	1.00198.84	A16S
ATOM	21078	O2	C	A1006	229.374	120.441	63.044	1.00198.84	A16S
ATOM	21079	N3	C	A1006	228.728	118.296	62.691	1.00198.84	A16S
ATOM	21080	C4	C	A1006	228.132	117.411	61.890	1.00198.84	A16S
ATOM	21081	N4	C	A1006	228.086	116.140	62.293	1.00198.84	A16S
ATOM	21082	C5	C	A1006	227.561	117.790	60.639	1.00198.84	A16S
ATOM	21083	C2*	C	A1006	229.400	121.683	59.594	1.00198.84	A16S
ATOM	21084	O2*	C	A1006	230.104	122.872	59.899	1.00198.84	A16S
ATOM	21085	C3*	C	A1006	228.515	121.783	58.351	1.00198.84	A16S
ATOM	21086	O3*	C	A1006	229.102	122.609	57.341	1.00198.84	A16S
ATOM	21087	P	C	A1007	230.219	122.001	56.350	1.00198.09	A16S
ATOM	21088	O1P	C	A1007	230.596	123.079	55.391	1.00159.35	A16S
ATOM	21089	O2P	C	A1007	229.742	120.687	55.831	1.00159.35	A16S
ATOM	21090	O5*	C	A1007	231.472	121.739	57.299	1.00198.09	A16S
ATOM	21091	C5*	C	A1007	232.215	122.837	57.863	1.00198.09	A16S



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ATOM	21092	C4* C	A1007	233.344	122.314	58.717	1.00198.09	A16S
ATOM	21093	O4* C	A1007	232.797	121.594	59.852	1.00198.09	A16S
ATOM	21094	C1* C	A1007	233.620	120.477	60.150	1.00198.09	A16S
ATOM	21095	N1 C	A1007	232.806	119.246	60.050	1.00159.35	A16S
ATOM	21096	C6 C	A1007	231.542	119.275	59.526	1.00159.35	A16S
ATOM	21097	C2 C	A1007	233.353	118.029	60.505	1.00159.35	A16S
ATOM	21098	O2 C	A1007	234.505	118.018	60.977	1.00159.35	A16S
ATOM	21099	N3 C	A1007	232.611	116.899	60.420	1.00159.35	A16S
ATOM	21100	C4 C	A1007	231.378	116.945	59.912	1.00159.35	A16S
ATOM	21101	N4 C	A1007	230.684	115.805	59.857	1.00159.35	A16S
ATOM	21102	C5 C	A1007	230.801	118.162	59.439	1.00159.35	A16S
ATOM	21103	C2* C	A1007	234.812	120.497	59.188	1.00198.09	A16S
ATOM	21104	O2* C	A1007	235.924	121.105	59.814	1.00198.09	A16S
ATOM	21105	C3* C	A1007	234.263	121.317	58.027	1.00198.09	A16S
ATOM	21106	O3* C	A1007	235.291	121.971	57.293	1.00198.09	A16S
ATOM	21107	P C	A1008	235.980	121.221	56.053	1.00187.12	A16S
ATOM	21108	O1P C	A1008	236.824	122.217	55.346	1.00190.84	A16S
ATOM	21109	O2P C	A1008	234.932	120.484	55.306	1.00190.84	A16S
ATOM	21110	O5* C	A1008	236.935	120.150	56.739	1.00187.12	A16S
ATOM	21111	C5* C	A1008	238.090	120.568	57.478	1.00187.12	A16S
ATOM	21112	C4* C	A1008	238.814	119.369	58.038	1.00187.12	A16S
ATOM	21113	O4* C	A1008	237.985	118.718	59.031	1.00187.12	A16S
ATOM	21114	C1* C	A1008	238.243	117.325	59.025	1.00187.12	A16S
ATOM	21115	N1 C	A1008	236.961	116.602	58.918	1.00190.84	A16S
ATOM	21116	C6 C	A1008	236.141	116.775	57.838	1.00190.84	A16S
ATOM	21117	C2 C	A1008	236.591	115.723	59.954	1.00190.84	A16S
ATOM	21118	O2 C	A1008	237.347	115.581	60.931	1.00190.84	A16S
ATOM	21119	N3 C	A1008	235.421	115.053	59.864	1.00190.84	A16S
ATOM	21120	C4 C	A1008	234.631	115.230	58.804	1.00190.84	A16S
ATOM	21121	N4 C	A1008	233.485	114.542	58.759	1.00190.84	A16S
ATOM	21122	C5 C	A1008	234.979	116.117	57.741	1.00190.84	A16S
ATOM	21123	C2* C	A1008	239.268	117.028	57.925	1.00187.12	A16S
ATOM	21124	O2* C	A1008	240.541	116.861	58.518	1.00187.12	A16S
ATOM	21125	C3* C	A1008	239.163	118.274	57.042	1.00187.12	A16S
ATOM	21126	O3* C	A1008	240.376	118.595	56.358	1.00187.12	A16S
ATOM	21127	P G	A1009	240.980	117.576	55.270	1.00169.16	A16S
ATOM	21128	O1P G	A1009	242.092	118.275	54.574	1.00198.71	A16S
ATOM	21129	O2P G	A1009	239.858	117.008	54.474	1.00198.71	A16S
ATOM	21130	O5* G	A1009	241.618	116.426	56.169	1.00169.16	A16S
ATOM	21131	C5* G	A1009	241.783	115.096	55.667	1.00169.16	A16S
ATOM	21132	C4* G	A1009	241.944	114.126	56.811	1.00169.16	A16S
ATOM	21133	O4* G	A1009	240.800	114.216	57.702	1.00169.16	A16S
ATOM	21134	C1* G	A1009	240.462	112.923	58.184	1.00169.16	A16S
ATOM	21135	N9 G	A1009	239.081	112.634	57.792	1.00198.71	A16S
ATOM	21136	C4 G	A1009	238.410	111.431	57.923	1.00198.71	A16S
ATOM	21137	N3 G	A1009	238.905	110.298	58.467	1.00198.71	A16S
ATOM	21138	C2 G	A1009	238.022	109.310	58.438	1.00198.71	A16S
ATOM	21139	N2 G	A1009	238.343	108.113	58.954	1.00198.71	A16S
ATOM	21140	N1 G	A1009	236.759	109.421	57.906	1.00198.71	A16S
ATOM	21141	C6 G	A1009	236.228	110.573	57.337	1.00198.71	A16S
ATOM	21142	O6 G	A1009	235.074	110.562	56.880	1.00198.71	A16S
ATOM	21143	C5 G	A1009	237.160	111.648	57.375	1.00198.71	A16S
ATOM	21144	N7 G	A1009	237.037	112.959	56.932	1.00198.71	A16S
ATOM	21145	C8 G	A1009	238.193	113.505	57.202	1.00198.71	A16S
ATOM	21146	C2* G	A1009	241.489	111.932	57.623	1.00169.16	A16S
ATOM	21147	O2* G	A1009	242.493	111.690	58.589	1.00169.16	A16S
ATOM	21148	C3* G	A1009	241.999	112.670	56.387	1.00169.16	A16S
ATOM	21149	O3* G	A1009	243.328	112.310	56.011	1.00169.16	A16S
ATOM	21150	P G	A1010	243.570	111.378	54.719	1.00152.85	A16S
ATOM	21151	O1P G	A1010	245.012	111.470	54.361	1.00168.23	A16S
ATOM	21152	O2P G	A1010	242.545	111.723	53.702	1.00168.23	A16S
ATOM	21153	O5* G	A1010	243.281	109.906	55.262	1.00152.85	A16S
ATOM	21154	C5* G	A1010	244.010	109.396	56.389	1.00152.85	A16S
ATOM	21155	C4* G	A1010	243.393	108.117	56.892	1.00152.85	A16S
ATOM	21156	O4* G	A1010	242.067	108.377	57.424	1.00152.85	A16S
ATOM	21157	C1* G	A1010	241.254	107.225	57.250	1.00152.85	A16S
ATOM	21158	N9 G	A1010	240.081	107.574	56.450	1.00168.23	A16S
ATOM	21159	C4 G	A1010	238.945	106.805	56.295	1.00168.23	A16S
ATOM	21160	N3 G	A1010	238.707	105.610	56.883	1.00168.23	A16S
ATOM	21161	C2 G	A1010	237.533	105.111	56.534	1.00168.23	A16S
ATOM	21162	N2 G	A1010	237.134	103.930	57.032	1.00168.23	A16S
ATOM	21163	N1 G	A1010	236.660	105.735	55.671	1.00168.23	A16S
ATOM	21164	C6 G	A1010	236.884	106.963	55.051	1.00168.23	A16S
ATOM	21165	O6 G	A1010	236.032	107.434	54.281	1.00168.23	A16S
ATOM	21166	C5 G	A1010	238.141	107.513	55.424	1.00168.23	A16S
ATOM	21167	N7 G	A1010	238.747	108.706	55.052	1.00168.23	A16S
ATOM	21168	C8 G	A1010	239.890	108.702	55.685	1.00168.23	A16S



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ATOM	21169	C2*	G	A1010	242.099	106.160	56.550	1.00152.85	A16S
ATOM	21170	O2*	G	A1010	242.616	105.259	57.512	1.00152.85	A16S
ATOM	21171	C3*	G	A1010	243.172	107.009	55.876	1.00152.85	A16S
ATOM	21172	O3*	G	A1010	244.352	106.263	55.597	1.00152.85	A16S
ATOM	21173	P	G	A1011	244.462	105.442	54.216	1.00146.05	A16S
ATOM	21174	O1P	G	A1011	245.826	104.860	54.150	1.00138.22	A16S
ATOM	21175	O2P	G	A1011	243.984	106.317	53.115	1.00138.22	A16S
ATOM	21176	O5*	G	A1011	243.430	104.242	54.398	1.00146.05	A16S
ATOM	21177	C5*	G	A1011	243.680	103.199	55.361	1.00146.05	A16S
ATOM	21178	C4*	G	A1011	242.673	102.083	55.211	1.00146.05	A16S
ATOM	21179	O4*	G	A1011	241.367	102.520	55.672	1.00146.05	A16S
ATOM	21180	C1*	G	A1011	240.352	101.951	54.858	1.00146.05	A16S
ATOM	21181	N9	G	A1011	239.633	103.041	54.197	1.00138.22	A16S
ATOM	21182	C4	G	A1011	238.452	102.939	53.486	1.00138.22	A16S
ATOM	21183	N3	G	A1011	237.747	101.803	53.269	1.00138.22	A16S
ATOM	21184	C2	G	A1011	236.658	102.024	52.543	1.00138.22	A16S
ATOM	21185	N2	G	A1011	235.846	101.000	52.228	1.00138.22	A16S
ATOM	21186	N1	G	A1011	236.286	103.264	52.072	1.00138.22	A16S
ATOM	21187	C6	G	A1011	236.992	104.448	52.280	1.00138.22	A16S
ATOM	21188	O6	G	A1011	236.564	105.517	51.807	1.00138.22	A16S
ATOM	21189	C5	G	A1011	238.173	104.223	53.056	1.00138.22	A16S
ATOM	21190	N7	G	A1011	239.156	105.111	53.482	1.00138.22	A16S
ATOM	21191	C8	G	A1011	239.996	104.369	54.153	1.00138.22	A16S
ATOM	21192	C2*	G	A1011	241.037	101.013	53.861	1.00146.05	A16S
ATOM	21193	O2*	G	A1011	241.025	99.687	54.358	1.00146.05	A16S
ATOM	21194	C3*	G	A1011	242.432	101.622	53.787	1.00146.05	A16S
ATOM	21195	O3*	G	A1011	243.436	100.738	53.321	1.00146.05	A16S
ATOM	21196	P	U	A1012	243.977	100.896	51.814	1.00168.40	A16S
ATOM	21197	O1P	U	A1012	245.059	99.895	51.601	1.00 96.98	A16S
ATOM	21198	O2P	U	A1012	244.255	102.345	51.562	1.00 96.98	A16S
ATOM	21199	O5*	U	A1012	242.716	100.476	50.931	1.00168.40	A16S
ATOM	21200	C5*	U	A1012	242.110	99.173	51.080	1.00168.40	A16S
ATOM	21201	C4*	U	A1012	240.922	99.031	50.154	1.00168.40	A16S
ATOM	21202	O4*	U	A1012	239.806	99.825	50.639	1.00168.40	A16S
ATOM	21203	C1*	U	A1012	239.074	100.340	49.537	1.00168.40	A16S
ATOM	21204	N1	U	A1012	239.117	101.814	49.581	1.00 96.98	A16S
ATOM	21205	C6	U	A1012	240.227	102.496	50.047	1.00 96.98	A16S
ATOM	21206	C2	U	A1012	237.999	102.511	49.127	1.00 96.98	A16S
ATOM	21207	O2	U	A1012	237.001	101.957	48.688	1.00 96.98	A16S
ATOM	21208	N3	U	A1012	238.096	103.884	49.199	1.00 96.98	A16S
ATOM	21209	C4	U	A1012	239.170	104.625	49.654	1.00 96.98	A16S
ATOM	21210	O4	U	A1012	239.088	105.861	49.686	1.00 96.98	A16S
ATOM	21211	C5	U	A1012	240.291	103.839	50.092	1.00 96.98	A16S
ATOM	21212	C2*	U	A1012	239.713	99.789	48.261	1.00168.40	A16S
ATOM	21213	O2*	U	A1012	239.043	98.612	47.856	1.00168.40	A16S
ATOM	21214	C3*	U	A1012	241.134	99.514	48.729	1.00168.40	A16S
ATOM	21215	O3*	U	A1012	241.815	98.574	47.912	1.00168.40	A16S
ATOM	21216	P	G	A1013	242.735	99.101	46.698	1.00147.96	A16S
ATOM	21217	O1P	G	A1013	243.264	97.875	46.038	1.00115.54	A16S
ATOM	21218	O2P	G	A1013	243.685	100.149	47.181	1.00115.54	A16S
ATOM	21219	O5*	G	A1013	241.692	99.803	45.717	1.00147.96	A16S
ATOM	21220	C5*	G	A1013	240.716	99.020	45.002	1.00147.96	A16S
ATOM	21221	C4*	G	A1013	239.820	99.907	44.167	1.00147.96	A16S
ATOM	21222	O4*	G	A1013	238.962	100.698	45.033	1.00147.96	A16S
ATOM	21223	C1*	G	A1013	238.714	101.959	44.434	1.00147.96	A16S
ATOM	21224	N9	G	A1013	239.323	102.993	45.261	1.00115.54	A16S
ATOM	21225	C4	G	A1013	238.877	104.283	45.412	1.00115.54	A16S
ATOM	21226	N3	G	A1013	237.758	104.805	44.864	1.00115.54	A16S
ATOM	21227	C2	G	A1013	237.610	106.086	45.164	1.00115.54	A16S
ATOM	21228	N2	G	A1013	236.546	106.764	44.700	1.00115.54	A16S
ATOM	21229	N1	G	A1013	238.493	106.800	45.942	1.00115.54	A16S
ATOM	21230	C6	G	A1013	239.649	106.283	46.521	1.00115.54	A16S
ATOM	21231	O6	G	A1013	240.374	107.014	47.210	1.00115.54	A16S
ATOM	21232	C5	G	A1013	239.819	104.906	46.206	1.00115.54	A16S
ATOM	21233	N7	G	A1013	240.822	104.016	46.570	1.00115.54	A16S
ATOM	21234	C8	G	A1013	240.480	102.893	45.999	1.00115.54	A16S
ATOM	21235	C2*	G	A1013	239.393	101.959	43.065	1.00147.96	A16S
ATOM	21236	O2*	G	A1013	238.464	101.580	42.069	1.00147.96	A16S
ATOM	21237	C3*	G	A1013	240.502	100.938	43.280	1.00147.96	A16S
ATOM	21238	O3*	G	A1013	241.014	100.413	42.064	1.00147.96	A16S
ATOM	21239	P	A	A1014	242.276	101.132	41.367	1.00123.12	A16S
ATOM	21240	O1P	A	A1014	242.688	100.275	40.224	1.00117.67	A16S
ATOM	21241	O2P	A	A1014	243.269	101.474	42.414	1.00117.67	A16S
ATOM	21242	O5*	A	A1014	241.672	102.502	40.810	1.00123.12	A16S
ATOM	21243	C5*	A	A1014	242.479	103.420	40.037	1.00123.12	A16S
ATOM	21244	C4*	A	A1014	241.623	104.153	39.018	1.00123.12	A16S
ATOM	21245	O4*	A	A1014	241.075	103.198	38.074	1.00123.12	A16S



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ATOM	21246	C1*	A	A1014	239.760	103.581	37.709	1.00123.12	A16S
ATOM	21247	N9	A	A1014	238.866	102.479	38.064	1.00117.67	A16S
ATOM	21248	C4	A	A1014	237.777	102.028	37.358	1.00117.67	A16S
ATOM	21249	N3	A	A1014	237.279	102.525	36.213	1.00117.67	A16S
ATOM	21250	C2	A	A1014	236.231	101.811	35.809	1.00117.67	A16S
ATOM	21251	N1	A	A1014	235.670	100.734	36.376	1.00117.67	A16S
ATOM	21252	C6	A	A1014	236.199	100.261	37.527	1.00117.67	A16S
ATOM	21253	N6	A	A1014	235.653	99.179	38.094	1.00117.67	A16S
ATOM	21254	C5	A	A1014	237.303	100.935	38.060	1.00117.67	A16S
ATOM	21255	N7	A	A1014	238.059	100.718	39.201	1.00117.67	A16S
ATOM	21256	C8	A	A1014	238.965	101.660	39.160	1.00117.67	A16S
ATOM	21257	C2*	A	A1014	239.444	104.914	38.395	1.00123.12	A16S
ATOM	21258	O2*	A	A1014	239.671	105.973	37.487	1.00123.12	A16S
ATOM	21259	C3*	A	A1014	240.419	104.904	39.572	1.00123.12	A16S
ATOM	21260	O3*	A	A1014	240.790	106.224	39.971	1.00123.12	A16S
ATOM	21261	P	A	A1015	240.625	106.676	41.507	1.00132.54	A16S
ATOM	21262	O1P	A	A1015	241.731	107.629	41.817	1.00 86.42	A16S
ATOM	21263	O2P	A	A1015	240.456	105.439	42.333	1.00 86.42	A16S
ATOM	21264	O5*	A	A1015	239.272	107.519	41.520	1.00132.54	A16S
ATOM	21265	C5*	A	A1015	239.149	108.744	40.758	1.00132.54	A16S
ATOM	21266	C4*	A	A1015	237.807	108.791	40.065	1.00132.54	A16S
ATOM	21267	O4*	A	A1015	237.681	107.598	39.248	1.00132.54	A16S
ATOM	21268	C1*	A	A1015	236.349	107.116	39.300	1.00132.54	A16S
ATOM	21269	N9	A	A1015	236.366	105.765	39.871	1.00 86.42	A16S
ATOM	21270	C4	A	A1015	235.477	104.752	39.590	1.00 86.42	A16S
ATOM	21271	N3	A	A1015	234.393	104.810	38.791	1.00 86.42	A16S
ATOM	21272	C2	A	A1015	233.782	103.624	38.733	1.00 86.42	A16S
ATOM	21273	N1	A	A1015	234.112	102.466	39.331	1.00 86.42	A16S
ATOM	21274	C6	A	A1015	235.210	102.436	40.123	1.00 86.42	A16S
ATOM	21275	N6	A	A1015	235.552	101.273	40.698	1.00 86.42	A16S
ATOM	21276	C5	A	A1015	235.937	103.642	40.285	1.00 86.42	A16S
ATOM	21277	N7	A	A1015	237.066	103.962	41.028	1.00 86.42	A16S
ATOM	21278	C8	A	A1015	237.273	105.229	40.756	1.00 86.42	A16S
ATOM	21279	C2*	A	A1015	235.527	108.119	40.103	1.00132.54	A16S
ATOM	21280	O2*	A	A1015	234.972	109.063	39.211	1.00132.54	A16S
ATOM	21281	C3*	A	A1015	236.593	108.751	40.983	1.00132.54	A16S
ATOM	21282	O3*	A	A1015	236.197	110.046	41.413	1.00132.54	A16S
ATOM	21283	P	A	A1016	235.393	110.213	42.802	1.00127.11	A16S
ATOM	21284	O1P	A	A1016	235.189	111.683	42.996	1.00 80.94	A16S
ATOM	21285	O2P	A	A1016	236.102	109.421	43.853	1.00 80.94	A16S
ATOM	21286	O5*	A	A1016	233.981	109.504	42.551	1.00127.11	A16S
ATOM	21287	C5*	A	A1016	232.920	110.159	41.812	1.00127.11	A16S
ATOM	21288	C4*	A	A1016	231.799	109.181	41.530	1.00127.11	A16S
ATOM	21289	O4*	A	A1016	232.376	108.017	40.889	1.00127.11	A16S
ATOM	21290	C1*	A	A1016	231.726	106.843	41.338	1.00127.11	A16S
ATOM	21291	N9	A	A1016	232.720	105.985	41.981	1.00 80.94	A16S
ATOM	21292	C4	A	A1016	232.622	104.624	42.125	1.00 80.94	A16S
ATOM	21293	N3	A	A1016	231.611	103.836	41.725	1.00 80.94	A16S
ATOM	21294	C2	A	A1016	231.865	102.561	42.018	1.00 80.94	A16S
ATOM	21295	N1	A	A1016	232.931	102.028	42.622	1.00 80.94	A16S
ATOM	21296	C6	A	A1016	233.928	102.853	43.020	1.00 80.94	A16S
ATOM	21297	N6	A	A1016	234.992	102.324	43.633	1.00 80.94	A16S
ATOM	21298	C5	A	A1016	233.782	104.227	42.764	1.00 80.94	A16S
ATOM	21299	N7	A	A1016	234.600	105.319	43.029	1.00 80.94	A16S
ATOM	21300	C8	A	A1016	233.925	106.338	42.550	1.00 80.94	A16S
ATOM	21301	C2*	A	A1016	230.601	107.257	42.282	1.00127.11	A16S
ATOM	21302	O2*	A	A1016	229.377	107.281	41.578	1.00127.11	A16S
ATOM	21303	C3*	A	A1016	231.079	108.626	42.750	1.00127.11	A16S
ATOM	21304	O3*	A	A1016	229.987	109.447	43.144	1.00127.11	A16S
ATOM	21305	P	G	A1017	229.557	109.510	44.693	1.00122.38	A16S
ATOM	21306	O1P	G	A1017	228.232	110.190	44.746	1.00 97.24	A16S
ATOM	21307	O2P	G	A1017	230.702	110.067	45.460	1.00 97.24	A16S
ATOM	21308	O5*	G	A1017	229.376	107.984	45.124	1.00122.38	A16S
ATOM	21309	C5*	G	A1017	228.283	107.187	44.616	1.00122.38	A16S
ATOM	21310	C4*	G	A1017	228.505	105.723	44.929	1.00122.38	A16S
ATOM	21311	O4*	G	A1017	229.787	105.327	44.380	1.00122.38	A16S
ATOM	21312	C1*	G	A1017	230.427	104.418	45.257	1.00122.38	A16S
ATOM	21313	N9	G	A1017	231.645	105.048	45.758	1.00 97.24	A16S
ATOM	21314	C4	G	A1017	232.754	104.394	46.229	1.00 97.24	A16S
ATOM	21315	N3	G	A1017	232.912	103.054	46.295	1.00 97.24	A16S
ATOM	21316	C2	G	A1017	234.089	102.722	46.789	1.00 97.24	A16S
ATOM	21317	N2	G	A1017	234.419	101.425	46.907	1.00 97.24	A16S
ATOM	21318	N1	G	A1017	235.031	103.633	47.200	1.00 97.24	A16S
ATOM	21319	C6	G	A1017	234.884	105.017	47.153	1.00 97.24	A16S
ATOM	21320	O6	G	A1017	235.789	105.750	47.570	1.00 97.24	A16S
ATOM	21321	C5	G	A1017	233.633	105.388	46.609	1.00 97.24	A16S
ATOM	21322	N7	G	A1017	233.089	106.647	46.374	1.00 97.24	A16S



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ATOM	21323	C8	G	A1017	231.912	106.398	45.869	1.00	97.24	A16S
ATOM	21324	C2*	G	A1017	229.462	104.106	46.396	1.00122.38		A16S
ATOM	21325	O2*	G	A1017	228.764	102.910	46.113	1.00122.38		A16S
ATOM	21326	C3*	G	A1017	228.595	105.360	46.405	1.00122.38		A16S
ATOM	21327	O3*	G	A1017	227.315	105.135	46.988	1.00122.38		A16S
ATOM	21328	P	C	A1018	227.125	105.299	48.580	1.00163.68		A16S
ATOM	21329	O1P	C	A1018	225.677	105.077	48.872	1.00	89.78	A16S
ATOM	21330	O2P	C	A1018	227.787	106.569	49.019	1.00	89.78	A16S
ATOM	21331	O5*	C	A1018	227.932	104.065	49.182	1.00163.68		A16S
ATOM	21332	C5*	C	A1018	227.456	102.721	48.998	1.00163.68		A16S
ATOM	21333	C4*	C	A1018	228.396	101.741	49.648	1.00163.68		A16S
ATOM	21334	O4*	C	A1018	229.682	101.801	48.977	1.00163.68		A16S
ATOM	21335	C1*	C	A1018	230.723	101.585	49.918	1.00163.68		A16S
ATOM	21336	N1	C	A1018	231.554	102.801	49.999	1.00	89.78	A16S
ATOM	21337	C6	C	A1018	230.997	104.046	49.870	1.00	89.78	A16S
ATOM	21338	C2	C	A1018	232.940	102.664	50.221	1.00	89.78	A16S
ATOM	21339	O2	C	A1018	233.430	101.519	50.347	1.00	89.78	A16S
ATOM	21340	N3	C	A1018	233.710	103.781	50.298	1.00	89.78	A16S
ATOM	21341	C4	C	A1018	233.151	104.991	50.172	1.00	89.78	A16S
ATOM	21342	N4	C	A1018	233.953	106.065	50.262	1.00	89.78	A16S
ATOM	21343	C5	C	A1018	231.748	105.156	49.951	1.00	89.78	A16S
ATOM	21344	C2*	C	A1018	230.070	101.297	51.265	1.00163.68		A16S
ATOM	21345	O2*	C	A1018	229.933	99.900	51.431	1.00163.68		A16S
ATOM	21346	C3*	C	A1018	228.736	102.008	51.106	1.00163.68		A16S
ATOM	21347	O3*	C	A1018	227.763	101.542	52.026	1.00163.68		A16S
ATOM	21348	P	C	A1019	227.624	102.266	53.457	1.00182.31		A16S
ATOM	21349	O1P	C	A1019	226.399	101.706	54.080	1.00118.67		A16S
ATOM	21350	O2P	C	A1019	227.749	103.740	53.277	1.00118.67		A16S
ATOM	21351	O5*	C	A1019	228.909	101.776	54.268	1.00182.31		A16S
ATOM	21352	C5*	C	A1019	229.128	100.374	54.546	1.00182.31		A16S
ATOM	21353	C4*	C	A1019	230.503	100.155	55.148	1.00182.31		A16S
ATOM	21354	O4*	C	A1019	231.516	100.589	54.201	1.00182.31		A16S
ATOM	21355	C1*	C	A1019	232.618	101.148	54.899	1.00182.31		A16S
ATOM	21356	N1	C	A1019	232.748	102.571	54.523	1.00118.67		A16S
ATOM	21357	C6	C	A1019	231.647	103.315	54.178	1.00118.67		A16S
ATOM	21358	C2	C	A1019	234.024	103.162	54.542	1.00118.67		A16S
ATOM	21359	O2	C	A1019	235.009	102.471	54.858	1.00118.67		A16S
ATOM	21360	N3	C	A1019	234.148	104.472	54.221	1.00118.67		A16S
ATOM	21361	C4	C	A1019	233.067	105.188	53.896	1.00118.67		A16S
ATOM	21362	N4	C	A1019	233.242	106.479	53.595	1.00118.67		A16S
ATOM	21363	C5	C	A1019	231.759	104.613	53.864	1.00118.67		A16S
ATOM	21364	C2*	C	A1019	232.342	101.000	56.394	1.00182.31		A16S
ATOM	21365	O2*	C	A1019	232.956	99.827	56.890	1.00182.31		A16S
ATOM	21366	C3*	C	A1019	230.822	100.932	56.417	1.00182.31		A16S
ATOM	21367	O3*	C	A1019	230.346	100.307	57.598	1.00182.31		A16S
ATOM	21368	P	U	A1020	229.931	101.216	58.858	1.00198.84		A16S
ATOM	21369	O1P	U	A1020	229.800	100.289	60.013	1.00162.51		A16S
ATOM	21370	O2P	U	A1020	228.777	102.075	58.469	1.00162.51		A16S
ATOM	21371	O5*	U	A1020	231.192	102.167	59.101	1.00198.84		A16S
ATOM	21372	C5*	U	A1020	232.444	101.631	59.577	1.00198.84		A16S
ATOM	21373	C4*	U	A1020	233.503	102.713	59.641	1.00198.84		A16S
ATOM	21374	O4*	U	A1020	233.638	103.328	58.331	1.00198.84		A16S
ATOM	21375	C1*	U	A1020	234.005	104.690	58.479	1.00198.84		A16S
ATOM	21376	N1	U	A1020	232.994	105.537	57.820	1.00162.51		A16S
ATOM	21377	C6	U	A1020	231.702	105.096	57.618	1.00162.51		A16S
ATOM	21378	C2	U	A1020	233.379	106.816	57.413	1.00162.51		A16S
ATOM	21379	O2	U	A1020	234.513	107.253	57.554	1.00162.51		A16S
ATOM	21380	N3	U	A1020	232.384	107.566	56.836	1.00162.51		A16S
ATOM	21381	C4	U	A1020	231.076	107.188	56.621	1.00162.51		A16S
ATOM	21382	O4	U	A1020	230.288	107.998	56.127	1.00162.51		A16S
ATOM	21383	C5	U	A1020	230.758	105.856	57.049	1.00162.51		A16S
ATOM	21384	C2*	U	A1020	234.141	104.980	59.977	1.00198.84		A16S
ATOM	21385	O2*	U	A1020	235.505	104.896	60.348	1.00198.84		A16S
ATOM	21386	C3*	U	A1020	233.274	103.883	60.594	1.00198.84		A16S
ATOM	21387	O3*	U	A1020	233.668	103.580	61.943	1.00198.84		A16S
ATOM	21388	P	G	A1021	233.080	104.446	63.179	1.00197.41		A16S
ATOM	21389	O1P	G	A1021	232.911	103.513	64.322	1.00195.80		A16S
ATOM	21390	O2P	G	A1021	231.927	105.275	62.737	1.00195.80		A16S
ATOM	21391	O5*	G	A1021	234.263	105.446	63.547	1.00197.41		A16S
ATOM	21392	C5*	G	A1021	235.516	104.951	64.050	1.00197.41		A16S
ATOM	21393	C4*	G	A1021	236.564	106.039	64.012	1.00197.41		A16S
ATOM	21394	O4*	G	A1021	236.810	106.426	62.633	1.00197.41		A16S
ATOM	21395	C1*	G	A1021	237.106	107.813	62.569	1.00197.41		A16S
ATOM	21396	N9	G	A1021	236.124	108.468	61.703	1.00195.80		A16S
ATOM	21397	C4	G	A1021	236.145	109.785	61.288	1.00195.80		A16S
ATOM	21398	N3	G	A1021	237.088	110.703	61.600	1.00195.80		A16S
ATOM	21399	C2	G	A1021	236.826	111.885	61.064	1.00195.80		A16S



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ATOM	21400	N2	G	A1021	237.662	112.913	61.277	1.00195.80	A16S
ATOM	21401	N1	G	A1021	235.726	112.145	60.282	1.00195.80	A16S
ATOM	21402	C6	G	A1021	234.744	111.218	59.945	1.00195.80	A16S
ATOM	21403	O6	G	A1021	233.794	111.558	59.225	1.00195.80	A16S
ATOM	21404	C5	G	A1021	235.013	109.944	60.516	1.00195.80	A16S
ATOM	21405	N7	G	A1021	234.301	108.754	60.436	1.00195.80	A16S
ATOM	21406	C8	G	A1021	234.995	107.910	61.151	1.00195.80	A16S
ATOM	21407	C2*	G	A1021	237.092	108.359	64.000	1.00197.41	A16S
ATOM	21408	O2*	G	A1021	238.415	108.421	64.502	1.00197.41	A16S
ATOM	21409	C3*	G	A1021	236.209	107.341	64.720	1.00197.41	A16S
ATOM	21410	O3*	G	A1021	236.463	107.288	66.128	1.00197.41	A16S
ATOM	21411	P	G	A1022	235.473	108.048	67.154	1.00197.88	A16S
ATOM	21412	O1P	G	A1022	235.936	107.727	68.527	1.00198.84	A16S
ATOM	21413	O2P	G	A1022	234.061	107.758	66.769	1.00198.84	A16S
ATOM	21414	O5*	G	A1022	235.750	109.599	66.905	1.00197.88	A16S
ATOM	21415	C5*	G	A1022	237.095	110.132	66.897	1.00197.88	A16S
ATOM	21416	C4*	G	A1022	237.139	111.415	66.096	1.00197.88	A16S
ATOM	21417	O4*	G	A1022	236.720	111.130	64.734	1.00197.88	A16S
ATOM	21418	C1*	G	A1022	235.891	112.178	64.246	1.00197.88	A16S
ATOM	21419	N9	G	A1022	234.554	111.628	64.003	1.00198.84	A16S
ATOM	21420	C4	G	A1022	233.437	112.317	63.566	1.00198.84	A16S
ATOM	21421	N3	G	A1022	233.378	113.634	63.262	1.00198.84	A16S
ATOM	21422	C2	G	A1022	232.161	114.000	62.891	1.00198.84	A16S
ATOM	21423	N2	G	A1022	231.921	115.265	62.550	1.00198.84	A16S
ATOM	21424	N1	G	A1022	231.088	113.148	62.826	1.00198.84	A16S
ATOM	21425	C6	G	A1022	231.121	111.791	63.134	1.00198.84	A16S
ATOM	21426	O6	G	A1022	230.089	111.110	63.047	1.00198.84	A16S
ATOM	21427	C5	G	A1022	232.421	111.379	63.529	1.00198.84	A16S
ATOM	21428	N7	G	A1022	232.888	110.128	63.914	1.00198.84	A16S
ATOM	21429	C8	G	A1022	234.152	110.321	64.181	1.00198.84	A16S
ATOM	21430	C2*	G	A1022	235.894	113.285	65.301	1.00197.88	A16S
ATOM	21431	O2*	G	A1022	236.902	114.232	64.995	1.00197.88	A16S
ATOM	21432	C3*	G	A1022	236.177	112.492	66.571	1.00197.88	A16S
ATOM	21433	O3*	G	A1022	236.729	113.295	67.601	1.00197.88	A16S
ATOM	21434	P	G	A1023	235.755	113.955	68.696	1.00198.06	A16S
ATOM	21435	O1P	G	A1023	235.788	113.074	69.894	1.00198.84	A16S
ATOM	21436	O2P	G	A1023	234.449	114.264	68.049	1.00198.84	A16S
ATOM	21437	O5*	G	A1023	236.479	115.328	69.058	1.00198.06	A16S
ATOM	21438	C5*	G	A1023	235.729	116.547	69.188	1.00198.06	A16S
ATOM	21439	C4*	G	A1023	236.394	117.661	68.412	1.00198.06	A16S
ATOM	21440	O4*	G	A1023	236.631	117.227	67.045	1.00198.06	A16S
ATOM	21441	C1*	G	A1023	236.300	118.271	66.139	1.00198.06	A16S
ATOM	21442	N9	G	A1023	235.119	117.834	65.388	1.00198.84	A16S
ATOM	21443	C4	G	A1023	234.167	118.632	64.773	1.00198.84	A16S
ATOM	21444	N3	G	A1023	234.172	119.986	64.713	1.00198.84	A16S
ATOM	21445	C2	G	A1023	233.110	120.460	64.074	1.00198.84	A16S
ATOM	21446	N2	G	A1023	232.959	121.785	63.914	1.00198.84	A16S
ATOM	21447	N1	G	A1023	232.119	119.669	63.544	1.00198.84	A16S
ATOM	21448	C6	G	A1023	232.089	118.277	63.596	1.00198.84	A16S
ATOM	21449	O6	G	A1023	231.142	117.661	63.096	1.00198.84	A16S
ATOM	21450	C5	G	A1023	233.228	117.753	64.267	1.00198.84	A16S
ATOM	21451	N7	G	A1023	233.590	116.437	64.529	1.00198.84	A16S
ATOM	21452	C8	G	A1023	234.714	116.532	65.185	1.00198.84	A16S
ATOM	21453	C2*	G	A1023	236.035	119.523	66.981	1.00198.06	A16S
ATOM	21454	O2*	G	A1023	237.226	120.272	67.140	1.00198.06	A16S
ATOM	21455	C3*	G	A1023	235.532	118.903	68.276	1.00198.06	A16S
ATOM	21456	O3*	G	A1023	235.614	119.750	69.411	1.00198.06	A16S
ATOM	21457	P	G	A1024	234.352	119.853	70.405	1.00198.84	A16S
ATOM	21458	O1P	G	A1024	234.455	121.154	71.119	1.00198.84	A16S
ATOM	21459	O2P	G	A1024	234.283	118.589	71.187	1.00198.84	A16S
ATOM	21460	O5*	G	A1024	233.082	119.896	69.434	1.00198.84	A16S
ATOM	21461	C5*	G	A1024	232.750	121.084	68.676	1.00198.84	A16S
ATOM	21462	C4*	G	A1024	231.388	120.937	68.020	1.00198.84	A16S
ATOM	21463	O4*	G	A1024	231.450	119.979	66.927	1.00198.84	A16S
ATOM	21464	C1*	G	A1024	230.218	119.273	66.833	1.00198.84	A16S
ATOM	21465	N9	G	A1024	230.482	117.839	66.988	1.00198.84	A16S
ATOM	21466	C4	G	A1024	229.623	116.798	66.681	1.00198.84	A16S
ATOM	21467	N3	G	A1024	228.371	116.915	66.181	1.00198.84	A16S
ATOM	21468	C2	G	A1024	227.799	115.732	65.995	1.00198.84	A16S
ATOM	21469	N2	G	A1024	226.551	115.660	65.510	1.00198.84	A16S
ATOM	21470	N1	G	A1024	228.406	114.532	66.272	1.00198.84	A16S
ATOM	21471	C6	G	A1024	229.690	114.385	66.786	1.00198.84	A16S
ATOM	21472	O6	G	A1024	230.142	113.252	67.000	1.00198.84	A16S
ATOM	21473	C5	G	A1024	230.318	115.646	66.995	1.00198.84	A16S
ATOM	21474	N7	G	A1024	231.580	115.950	67.490	1.00198.84	A16S
ATOM	21475	C8	G	A1024	231.633	117.255	67.469	1.00198.84	A16S
ATOM	21476	C2*	G	A1024	229.276	119.839	67.898	1.00198.84	A16S



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ATOM	21477	O2*	G	A1024	228.433	120.812	67.307	1.00198.84	A16S
ATOM	21478	C3*	G	A1024	230.260	120.429	68.906	1.00198.84	A16S
ATOM	21479	O3*	G	A1024	229.684	121.457	69.708	1.00198.84	A16S
ATOM	21480	P	U	A1025	229.018	121.078	71.126	1.00198.84	A16S
ATOM	21481	O1P	U	A1025	228.488	122.348	71.699	1.00165.87	A16S
ATOM	21482	O2P	U	A1025	230.011	120.285	71.904	1.00165.87	A16S
ATOM	21483	O5*	U	A1025	227.806	120.112	70.721	1.00198.84	A16S
ATOM	21484	C5*	U	A1025	226.441	120.417	71.089	1.00198.84	A16S
ATOM	21485	C4*	U	A1025	225.928	121.568	70.255	1.00198.84	A16S
ATOM	21486	O4*	U	A1025	225.724	121.151	68.874	1.00198.84	A16S
ATOM	21487	C1*	U	A1025	224.697	121.946	68.289	1.00198.84	A16S
ATOM	21488	N1	U	A1025	223.650	121.081	67.709	1.00165.87	A16S
ATOM	21489	C6	U	A1025	223.378	119.823	68.214	1.00165.87	A16S
ATOM	21490	C2	U	A1025	222.926	121.580	66.623	1.00165.87	A16S
ATOM	21491	O2	U	A1025	223.108	122.693	66.149	1.00165.87	A16S
ATOM	21492	N3	U	A1025	221.975	120.730	66.119	1.00165.87	A16S
ATOM	21493	C4	U	A1025	221.664	119.471	66.575	1.00165.87	A16S
ATOM	21494	O4	U	A1025	220.803	118.820	65.989	1.00165.87	A16S
ATOM	21495	C5	U	A1025	222.433	119.029	67.701	1.00165.87	A16S
ATOM	21496	C2*	U	A1025	224.167	122.885	69.373	1.00198.84	A16S
ATOM	21497	O2*	U	A1025	224.792	124.147	69.220	1.00198.84	A16S
ATOM	21498	C3*	U	A1025	224.589	122.165	70.652	1.00198.84	A16S
ATOM	21499	O3*	U	A1025	224.712	123.068	71.746	1.00198.84	A16S
ATOM	21500	P	G	A1026	223.802	122.859	73.056	1.00198.52	A16S
ATOM	21501	O1P	G	A1026	224.638	122.131	74.046	1.00198.36	A16S
ATOM	21502	O2P	G	A1026	222.486	122.292	72.654	1.00198.36	A16S
ATOM	21503	O5*	G	A1026	223.572	124.341	73.595	1.00198.52	A16S
ATOM	21504	C5*	G	A1026	222.422	125.114	73.192	1.00198.52	A16S
ATOM	21505	C4*	G	A1026	222.816	126.131	72.145	1.00198.52	A16S
ATOM	21506	O4*	G	A1026	223.253	125.436	70.949	1.00198.52	A16S
ATOM	21507	C1*	G	A1026	222.830	126.145	69.795	1.00198.52	A16S
ATOM	21508	N9	G	A1026	221.943	125.279	69.019	1.00198.36	A16S
ATOM	21509	C4	G	A1026	221.545	125.473	67.717	1.00198.36	A16S
ATOM	21510	N3	G	A1026	221.910	126.499	66.920	1.00198.36	A16S
ATOM	21511	C2	G	A1026	221.358	126.414	65.724	1.00198.36	A16S
ATOM	21512	N2	G	A1026	221.612	127.355	64.803	1.00198.36	A16S
ATOM	21513	N1	G	A1026	220.516	125.401	65.341	1.00198.36	A16S
ATOM	21514	C6	G	A1026	220.129	124.335	66.144	1.00198.36	A16S
ATOM	21515	O6	G	A1026	219.366	123.475	65.700	1.00198.36	A16S
ATOM	21516	C5	G	A1026	220.711	124.414	67.428	1.00198.36	A16S
ATOM	21517	N7	G	A1026	220.589	123.569	68.520	1.00198.36	A16S
ATOM	21518	C8	G	A1026	221.333	124.119	69.439	1.00198.36	A16S
ATOM	21519	C2*	G	A1026	222.138	127.425	70.263	1.00198.52	A16S
ATOM	21520	O2*	G	A1026	223.059	128.500	70.246	1.00198.52	A16S
ATOM	21521	C3*	G	A1026	221.690	127.035	71.667	1.00198.52	A16S
ATOM	21522	O3*	G	A1026	221.528	128.169	72.507	1.00198.52	A16S
ATOM	21523	P	C	A1027	220.062	128.560	73.037	1.00198.84	A16S
ATOM	21524	O1P	C	A1027	220.110	130.004	73.394	1.00198.84	A16S
ATOM	21525	O2P	C	A1027	219.666	127.559	74.066	1.00198.84	A16S
ATOM	21526	O5*	C	A1027	219.121	128.373	71.759	1.00198.84	A16S
ATOM	21527	C5*	C	A1027	219.301	129.181	70.570	1.00198.84	A16S
ATOM	21528	C4*	C	A1027	218.269	128.825	69.513	1.00198.84	A16S
ATOM	21529	O4*	C	A1027	218.532	127.507	68.967	1.00198.84	A16S
ATOM	21530	C1*	C	A1027	217.308	126.892	68.596	1.00198.84	A16S
ATOM	21531	N1	C	A1027	217.226	125.546	69.213	1.00198.84	A16S
ATOM	21532	C6	C	A1027	218.265	125.049	69.954	1.00198.84	A16S
ATOM	21533	C2	C	A1027	216.066	124.769	69.018	1.00198.84	A16S
ATOM	21534	O2	C	A1027	215.122	125.240	68.362	1.00198.84	A16S
ATOM	21535	N3	C	A1027	216.006	123.526	69.554	1.00198.84	A16S
ATOM	21536	C4	C	A1027	217.033	123.052	70.263	1.00198.84	A16S
ATOM	21537	N4	C	A1027	216.933	121.818	70.762	1.00198.84	A16S
ATOM	21538	C5	C	A1027	218.211	123.821	70.490	1.00198.84	A16S
ATOM	21539	C2*	C	A1027	216.165	127.856	68.941	1.00198.84	A16S
ATOM	21540	O2*	C	A1027	215.769	128.523	67.762	1.00198.84	A16S
ATOM	21541	C3*	C	A1027	216.816	128.785	69.966	1.00198.84	A16S
ATOM	21542	O3*	C	A1027	216.243	130.094	69.934	1.00198.84	A16S
ATOM	21543	P	C	A1028	215.411	130.643	71.201	1.00198.84	A16S
ATOM	21544	O1P	C	A1028	215.323	132.125	71.045	1.00187.78	A16S
ATOM	21545	O2P	C	A1028	215.983	130.068	72.449	1.00187.78	A16S
ATOM	21546	O5*	C	A1028	213.961	130.010	71.016	1.00198.84	A16S
ATOM	21547	C5*	C	A1028	212.820	130.828	70.685	1.00198.84	A16S
ATOM	21548	C4*	C	A1028	211.547	130.127	71.096	1.00198.84	A16S
ATOM	21549	O4*	C	A1028	211.514	128.826	70.451	1.00198.84	A16S
ATOM	21550	C1*	C	A1028	210.973	127.863	71.337	1.00198.84	A16S
ATOM	21551	N1	C	A1028	211.994	126.823	71.575	1.00187.78	A16S
ATOM	21552	C6	C	A1028	213.313	127.154	71.744	1.00187.78	A16S
ATOM	21553	C2	C	A1028	211.592	125.479	71.626	1.00187.78	A16S



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ATOM	21554	O2	C	A1028	210.390	125.198	71.472	1.00187.78	A16S
ATOM	21555	N3	C	A1028	212.523	124.521	71.840	1.00187.78	A16S
ATOM	21556	C4	C	A1028	213.805	124.856	71.998	1.00187.78	A16S
ATOM	21557	N4	C	A1028	214.683	123.871	72.199	1.00187.78	A16S
ATOM	21558	C5	C	A1028	214.242	126.213	71.954	1.00187.78	A16S
ATOM	21559	C2*	C	A1028	210.532	128.589	72.609	1.00198.84	A16S
ATOM	21560	O2*	C	A1028	209.153	128.887	72.520	1.00198.84	A16S
ATOM	21561	C3*	C	A1028	211.424	129.826	72.584	1.00198.84	A16S
ATOM	21562	O3*	C	A1028	210.860	130.925	73.298	1.00198.84	A16S
ATOM	21563	P	C	A1029	211.114	131.062	74.882	1.00198.84	A16S
ATOM	21564	O1P	C	A1029	210.516	132.351	75.321	1.00198.58	A16S
ATOM	21565	O2P	C	A1029	212.554	130.793	75.150	1.00198.58	A16S
ATOM	21566	O5*	C	A1029	210.252	129.877	75.512	1.00198.84	A16S
ATOM	21567	C5*	C	A1029	208.812	129.858	75.393	1.00198.84	A16S
ATOM	21568	C4*	C	A1029	208.265	128.497	75.773	1.00198.84	A16S
ATOM	21569	O4*	C	A1029	208.793	127.492	74.865	1.00198.84	A16S
ATOM	21570	C1*	C	A1029	209.028	126.281	75.569	1.00198.84	A16S
ATOM	21571	N1	C	A1029	210.472	125.960	75.495	1.00198.58	A16S
ATOM	21572	C6	C	A1029	211.394	126.934	75.212	1.00198.58	A16S
ATOM	21573	C2	C	A1029	210.892	124.635	75.729	1.00198.58	A16S
ATOM	21574	O2	C	A1029	210.041	123.760	75.976	1.00198.58	A16S
ATOM	21575	N3	C	A1029	212.216	124.347	75.679	1.00198.58	A16S
ATOM	21576	C4	C	A1029	213.102	125.311	75.407	1.00198.58	A16S
ATOM	21577	N4	C	A1029	214.394	124.981	75.375	1.00198.58	A16S
ATOM	21578	C5	C	A1029	212.703	126.656	75.158	1.00198.58	A16S
ATOM	21579	C2*	C	A1029	208.546	126.478	77.009	1.00198.84	A16S
ATOM	21580	O2*	C	A1029	207.232	125.970	77.160	1.00198.84	A16S
ATOM	21581	C3*	C	A1029	208.637	127.994	77.160	1.00198.84	A16S
ATOM	21582	O3*	C	A1029	207.776	128.497	78.178	1.00198.84	A16S
ATOM	21583	P	C	A1030	208.191	128.326	79.723	1.00198.83	A16S
ATOM	21584	O1P	C	A1030	207.179	129.033	80.548	1.00194.52	A16S
ATOM	21585	O2P	C	A1030	209.627	128.679	79.869	1.00194.52	A16S
ATOM	21586	O5*	C	A1030	208.036	126.760	79.974	1.00198.83	A16S
ATOM	21587	C5*	C	A1030	206.755	126.187	80.288	1.00198.83	A16S
ATOM	21588	C4*	C	A1030	206.931	124.928	81.100	1.00198.83	A16S
ATOM	21589	O4*	C	A1030	207.382	123.847	80.240	1.00198.83	A16S
ATOM	21590	C1*	C	A1030	208.261	122.997	80.963	1.00198.83	A16S
ATOM	21591	N1	C	A1030	209.590	123.017	80.313	1.00194.52	A16S
ATOM	21592	C6	C	A1030	210.069	124.159	79.727	1.00194.52	A16S
ATOM	21593	C2	C	A1030	210.376	121.847	80.324	1.00194.52	A16S
ATOM	21594	O2	C	A1030	209.917	120.807	80.836	1.00194.52	A16S
ATOM	21595	N3	C	A1030	211.616	121.882	79.774	1.00194.52	A16S
ATOM	21596	C4	C	A1030	212.074	123.010	79.223	1.00194.52	A16S
ATOM	21597	N4	C	A1030	213.305	123.001	78.704	1.00194.52	A16S
ATOM	21598	C5	C	A1030	211.291	124.200	79.179	1.00194.52	A16S
ATOM	21599	C2*	C	A1030	208.333	123.522	82.401	1.00198.83	A16S
ATOM	21600	O2*	C	A1030	207.412	122.822	83.217	1.00198.83	A16S
ATOM	21601	C3*	C	A1030	207.971	124.992	82.211	1.00198.83	A16S
ATOM	21602	O3*	C	A1030	207.505	125.624	83.406	1.00198.83	A16S
ATOM	21603	P	G	A1030A	208.535	126.476	84.315	1.00198.84	A16S
ATOM	21604	O1P	G	A1030A	207.742	127.137	85.383	1.00198.84	A16S
ATOM	21605	O2P	G	A1030A	209.403	127.304	83.432	1.00198.84	A16S
ATOM	21606	O5*	G	A1030A	209.445	125.366	85.011	1.00198.84	A16S
ATOM	21607	C5*	G	A1030A	208.854	124.329	85.830	1.00198.84	A16S
ATOM	21608	C4*	G	A1030A	209.844	123.208	86.073	1.00198.84	A16S
ATOM	21609	O4*	G	A1030A	210.213	122.605	84.803	1.00198.84	A16S
ATOM	21610	C1*	G	A1030A	211.581	122.223	84.830	1.00198.84	A16S
ATOM	21611	N9	G	A1030A	212.299	122.993	83.811	1.00198.84	A16S
ATOM	21612	C4	G	A1030A	213.624	122.850	83.464	1.00198.84	A16S
ATOM	21613	N3	G	A1030A	214.490	121.958	83.995	1.00198.84	A16S
ATOM	21614	C2	G	A1030A	215.698	122.074	83.473	1.00198.84	A16S
ATOM	21615	N2	G	A1030A	216.680	121.265	83.894	1.00198.84	A16S
ATOM	21616	N1	G	A1030A	216.031	122.993	82.502	1.00198.84	A16S
ATOM	21617	C6	G	A1030A	215.156	123.920	81.940	1.00198.84	A16S
ATOM	21618	O6	G	A1030A	215.559	124.705	81.072	1.00198.84	A16S
ATOM	21619	C5	G	A1030A	213.856	123.807	82.493	1.00198.84	A16S
ATOM	21620	N7	G	A1030A	212.699	124.527	82.224	1.00198.84	A16S
ATOM	21621	C8	G	A1030A	211.803	124.010	83.023	1.00198.84	A16S
ATOM	21622	C2*	G	A1030A	212.108	122.501	86.241	1.00198.84	A16S
ATOM	21623	O2*	G	A1030A	212.010	121.328	87.025	1.00198.84	A16S
ATOM	21624	C3*	G	A1030A	211.168	123.609	86.705	1.00198.84	A16S
ATOM	21625	O3*	G	A1030A	211.086	123.703	88.123	1.00198.84	A16S
ATOM	21626	P	C	A1030B	211.710	124.985	88.875	1.00197.63	A16S
ATOM	21627	O1P	C	A1030B	211.230	124.910	90.279	1.00198.74	A16S
ATOM	21628	O2P	C	A1030B	211.432	126.212	88.064	1.00198.74	A16S
ATOM	21629	O5*	C	A1030B	213.286	124.719	88.878	1.00197.63	A16S
ATOM	21630	C5*	C	A1030B	214.227	125.794	89.123	1.00197.63	A16S



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ATOM	21631	C4*	C	A1030B	215.540	125.249	89.651	1.00197.63	A16S
ATOM	21632	O4*	C	A1030B	215.320	124.627	90.943	1.00197.63	A16S
ATOM	21633	C1*	C	A1030B	216.187	123.515	91.091	1.00197.63	A16S
ATOM	21634	N1	C	A1030B	215.380	122.305	91.353	1.00198.74	A16S
ATOM	21635	C6	C	A1030B	214.048	122.263	91.037	1.00198.74	A16S
ATOM	21636	C2	C	A1030B	216.002	121.186	91.945	1.00198.74	A16S
ATOM	21637	O2	C	A1030B	217.218	121.234	92.211	1.00198.74	A16S
ATOM	21638	N3	C	A1030B	215.263	120.083	92.206	1.00198.74	A16S
ATOM	21639	C4	C	A1030B	213.963	120.061	91.901	1.00198.74	A16S
ATOM	21640	N4	C	A1030B	213.275	118.954	92.186	1.00198.74	A16S
ATOM	21641	C5	C	A1030B	213.310	121.175	91.292	1.00198.74	A16S
ATOM	21642	C2*	C	A1030B	217.057	123.417	89.837	1.00197.63	A16S
ATOM	21643	O2*	C	A1030B	218.309	124.021	90.098	1.00197.63	A16S
ATOM	21644	C3*	C	A1030B	216.222	124.176	88.810	1.00197.63	A16S
ATOM	21645	O3*	C	A1030B	217.050	124.749	87.799	1.00197.63	A16S
ATOM	21646	P	G	A1030C	217.182	124.027	86.367	1.00197.47	A16S
ATOM	21647	O1P	G	A1030C	218.263	124.716	85.616	1.00198.84	A16S
ATOM	21648	O2P	G	A1030C	215.826	123.934	85.776	1.00198.84	A16S
ATOM	21649	O5*	G	A1030C	217.678	122.552	86.708	1.00197.47	A16S
ATOM	21650	C5*	G	A1030C	219.014	122.309	87.188	1.00197.47	A16S
ATOM	21651	C4*	G	A1030C	219.177	120.851	87.551	1.00197.47	A16S
ATOM	21652	O4*	G	A1030C	218.209	120.517	88.580	1.00197.47	A16S
ATOM	21653	C1*	G	A1030C	217.726	119.200	88.373	1.00197.47	A16S
ATOM	21654	N9	G	A1030C	216.277	119.268	88.191	1.00198.84	A16S
ATOM	21655	C4	G	A1030C	215.341	118.422	88.746	1.00198.84	A16S
ATOM	21656	N3	G	A1030C	215.599	117.369	89.561	1.00198.84	A16S
ATOM	21657	C2	G	A1030C	214.489	116.741	89.932	1.00198.84	A16S
ATOM	21658	N2	G	A1030C	214.565	115.664	90.738	1.00198.84	A16S
ATOM	21659	N1	G	A1030C	213.225	117.121	89.540	1.00198.84	A16S
ATOM	21660	C6	G	A1030C	212.932	118.200	88.706	1.00198.84	A16S
ATOM	21661	O6	G	A1030C	211.752	118.455	88.417	1.00198.84	A16S
ATOM	21662	C5	G	A1030C	214.119	118.881	88.293	1.00198.84	A16S
ATOM	21663	N7	G	A1030C	214.284	119.988	87.468	1.00198.84	A16S
ATOM	21664	C8	G	A1030C	215.574	120.182	87.437	1.00198.84	A16S
ATOM	21665	C2*	G	A1030C	218.470	118.603	87.174	1.00197.47	A16S
ATOM	21666	O2*	G	A1030C	219.547	117.802	87.626	1.00197.47	A16S
ATOM	21667	C3*	G	A1030C	218.915	119.858	86.426	1.00197.47	A16S
ATOM	21668	O3*	G	A1030C	220.083	119.639	85.634	1.00197.47	A16S
ATOM	21669	P	A	A1030D	219.942	119.033	84.150	1.00198.51	A16S
ATOM	21670	O1P	A	A1030D	221.259	119.194	83.482	1.00198.64	A16S
ATOM	21671	O2P	A	A1030D	218.730	119.602	83.515	1.00198.64	A16S
ATOM	21672	O5*	A	A1030D	219.683	117.479	84.387	1.00198.51	A16S
ATOM	21673	C5*	A	A1030D	220.746	116.601	84.817	1.00198.51	A16S
ATOM	21674	C4*	A	A1030D	220.203	115.218	85.105	1.00198.51	A16S
ATOM	21675	O4*	A	A1030D	219.255	115.302	86.201	1.00198.51	A16S
ATOM	21676	C1*	A	A1030D	218.208	114.368	85.999	1.00198.51	A16S
ATOM	21677	N9	A	A1030D	216.940	115.097	85.930	1.00198.64	A16S
ATOM	21678	C4	A	A1030D	215.739	114.677	86.450	1.00198.64	A16S
ATOM	21679	N3	A	A1030D	215.495	113.542	87.131	1.00198.64	A16S
ATOM	21680	C2	A	A1030D	214.210	113.466	87.473	1.00198.64	A16S
ATOM	21681	N1	A	A1030D	213.215	114.331	87.231	1.00198.64	A16S
ATOM	21682	C6	A	A1030D	213.494	115.462	86.542	1.00198.64	A16S
ATOM	21683	N6	A	A1030D	212.502	116.324	86.294	1.00198.64	A16S
ATOM	21684	C5	A	A1030D	214.823	115.664	86.124	1.00198.64	A16S
ATOM	21685	N7	A	A1030D	215.436	116.693	85.420	1.00198.64	A16S
ATOM	21686	C8	A	A1030D	216.687	116.312	85.334	1.00198.64	A16S
ATOM	21687	C2*	A	A1030D	218.509	113.587	84.716	1.00198.51	A16S
ATOM	21688	O2*	A	A1030D	219.116	112.353	85.049	1.00198.51	A16S
ATOM	21689	C3*	A	A1030D	219.436	114.545	83.970	1.00198.51	A16S
ATOM	21690	O3*	A	A1030D	220.305	113.841	83.077	1.00198.51	A16S
ATOM	21691	P	G	A1031	220.286	114.171	81.498	1.00198.84	A16S
ATOM	21692	O1P	G	A1031	221.069	113.095	80.836	1.00170.09	A16S
ATOM	21693	O2P	G	A1031	220.684	115.592	81.307	1.00170.09	A16S
ATOM	21694	O5*	G	A1031	218.760	114.016	81.053	1.00198.84	A16S
ATOM	21695	C5*	G	A1031	218.035	112.786	81.276	1.00198.84	A16S
ATOM	21696	C4*	G	A1031	216.566	113.078	81.497	1.00198.84	A16S
ATOM	21697	O4*	G	A1031	216.476	114.212	82.402	1.00198.84	A16S
ATOM	21698	C1*	G	A1031	215.351	115.008	82.069	1.00198.84	A16S
ATOM	21699	N9	G	A1031	215.803	116.348	81.701	1.00170.09	A16S
ATOM	21700	C4	G	A1031	215.010	117.469	81.637	1.00170.09	A16S
ATOM	21701	N3	G	A1031	213.691	117.525	81.933	1.00170.09	A16S
ATOM	21702	C2	G	A1031	213.195	118.737	81.761	1.00170.09	A16S
ATOM	21703	N2	G	A1031	211.896	118.970	82.016	1.00170.09	A16S
ATOM	21704	N1	G	A1031	213.934	119.810	81.328	1.00170.09	A16S
ATOM	21705	C6	G	A1031	215.291	119.776	81.014	1.00170.09	A16S
ATOM	21706	O6	G	A1031	215.858	120.805	80.623	1.00170.09	A16S
ATOM	21707	C5	G	A1031	215.839	118.479	81.203	1.00170.09	A16S



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ATOM	21708	N7	G	A1031	217.134	118.009	81.015	1.00170.09	A16S
ATOM	21709	C8	G	A1031	217.067	116.744	81.327	1.00170.09	A16S
ATOM	21710	C2*	G	A1031	214.627	114.333	80.906	1.00198.84	A16S
ATOM	21711	O2*	G	A1031	213.551	113.555	81.398	1.00198.84	A16S
ATOM	21712	C3*	G	A1031	215.745	113.504	80.282	1.00198.84	A16S
ATOM	21713	O3*	G	A1031	215.213	112.400	79.544	1.00198.84	A16S
ATOM	21714	P	G	A1032	214.470	112.663	78.132	1.00197.94	A16S
ATOM	21715	O1P	G	A1032	214.028	111.346	77.587	1.00169.90	A16S
ATOM	21716	O2P	G	A1032	215.333	113.552	77.303	1.00169.90	A16S
ATOM	21717	O5*	G	A1032	213.170	113.502	78.515	1.00197.94	A16S
ATOM	21718	C5*	G	A1032	211.953	112.856	78.940	1.00197.94	A16S
ATOM	21719	C4*	G	A1032	210.785	113.786	78.731	1.00197.94	A16S
ATOM	21720	O4*	G	A1032	211.029	115.002	79.485	1.00197.94	A16S
ATOM	21721	C1*	G	A1032	210.572	116.125	78.750	1.00197.94	A16S
ATOM	21722	N9	G	A1032	211.707	117.009	78.493	1.00169.90	A16S
ATOM	21723	C4	G	A1032	211.635	118.304	78.039	1.00169.90	A16S
ATOM	21724	N3	G	A1032	210.501	118.982	77.752	1.00169.90	A16S
ATOM	21725	C2	G	A1032	210.752	120.211	77.326	1.00169.90	A16S
ATOM	21726	N2	G	A1032	209.737	121.022	76.986	1.00169.90	A16S
ATOM	21727	N1	G	A1032	212.016	120.736	77.200	1.00169.90	A16S
ATOM	21728	C6	G	A1032	213.198	120.062	77.495	1.00169.90	A16S
ATOM	21729	O6	G	A1032	214.286	120.637	77.353	1.00169.90	A16S
ATOM	21730	C5	G	A1032	212.944	118.733	77.946	1.00169.90	A16S
ATOM	21731	N7	G	A1032	213.821	117.726	78.330	1.00169.90	A16S
ATOM	21732	C8	G	A1032	213.045	116.725	78.646	1.00169.90	A16S
ATOM	21733	C2*	G	A1032	209.920	115.614	77.464	1.00197.94	A16S
ATOM	21734	O2*	G	A1032	208.519	115.534	77.639	1.00197.94	A16S
ATOM	21735	C3*	G	A1032	210.596	114.257	77.295	1.00197.94	A16S
ATOM	21736	O3*	G	A1032	209.816	113.342	76.528	1.00197.94	A16S
ATOM	21737	P	G	A1033	210.064	113.215	74.940	1.00198.84	A16S
ATOM	21738	O1P	G	A1033	209.321	112.014	74.469	1.00173.22	A16S
ATOM	21739	O2P	G	A1033	211.528	113.324	74.681	1.00173.22	A16S
ATOM	21740	O5*	G	A1033	209.357	114.508	74.330	1.00198.84	A16S
ATOM	21741	C5*	G	A1033	207.932	114.703	74.446	1.00198.84	A16S
ATOM	21742	C4*	G	A1033	207.563	116.118	74.060	1.00198.84	A16S
ATOM	21743	O4*	G	A1033	208.243	117.042	74.952	1.00198.84	A16S
ATOM	21744	C1*	G	A1033	208.631	118.204	74.236	1.00198.84	A16S
ATOM	21745	N9	G	A1033	210.090	118.272	74.217	1.00173.22	A16S
ATOM	21746	C4	G	A1033	210.846	119.401	74.010	1.00173.22	A16S
ATOM	21747	N3	G	A1033	210.369	120.649	73.814	1.00173.22	A16S
ATOM	21748	C2	G	A1033	211.340	121.527	73.629	1.00173.22	A16S
ATOM	21749	N2	G	A1033	211.042	122.810	73.409	1.00173.22	A16S
ATOM	21750	N1	G	A1033	212.675	121.209	73.642	1.00173.22	A16S
ATOM	21751	C6	G	A1033	213.191	119.931	73.841	1.00173.22	A16S
ATOM	21752	O6	G	A1033	214.415	119.753	73.831	1.00173.22	A16S
ATOM	21753	C5	G	A1033	212.157	118.975	74.037	1.00173.22	A16S
ATOM	21754	N7	G	A1033	212.226	117.606	74.266	1.00173.22	A16S
ATOM	21755	C8	G	A1033	210.980	117.233	74.371	1.00173.22	A16S
ATOM	21756	C2*	G	A1033	208.085	118.073	72.814	1.00198.84	A16S
ATOM	21757	O2*	G	A1033	206.831	118.719	72.711	1.00198.84	A16S
ATOM	21758	C3*	G	A1033	207.991	116.562	72.667	1.00198.84	A16S
ATOM	21759	O3*	G	A1033	207.083	116.176	71.641	1.00198.84	A16S
ATOM	21760	P	G	A1034	207.649	115.830	70.172	1.00198.84	A16S
ATOM	21761	O1P	G	A1034	206.598	115.028	69.482	1.00167.71	A16S
ATOM	21762	O2P	G	A1034	209.024	115.270	70.319	1.00167.71	A16S
ATOM	21763	O5*	G	A1034	207.783	117.248	69.447	1.00198.84	A16S
ATOM	21764	C5*	G	A1034	206.615	117.976	69.007	1.00198.84	A16S
ATOM	21765	C4*	G	A1034	206.964	119.422	68.715	1.00198.84	A16S
ATOM	21766	O4*	G	A1034	207.630	119.984	69.879	1.00198.84	A16S
ATOM	21767	C1*	G	A1034	208.572	120.964	69.468	1.00198.84	A16S
ATOM	21768	N9	G	A1034	209.914	120.564	69.894	1.00167.71	A16S
ATOM	21769	C4	G	A1034	211.046	121.338	69.781	1.00167.71	A16S
ATOM	21770	N3	G	A1034	211.097	122.596	69.286	1.00167.71	A16S
ATOM	21771	C2	G	A1034	212.327	123.077	69.282	1.00167.71	A16S
ATOM	21772	N2	G	A1034	212.554	124.316	68.816	1.00167.71	A16S
ATOM	21773	N1	G	A1034	213.424	122.381	69.732	1.00167.71	A16S
ATOM	21774	C6	G	A1034	213.399	121.086	70.243	1.00167.71	A16S
ATOM	21775	O6	G	A1034	214.452	120.550	70.613	1.00167.71	A16S
ATOM	21776	C5	G	A1034	212.077	120.553	70.254	1.00167.71	A16S
ATOM	21777	N7	G	A1034	211.603	119.313	70.672	1.00167.71	A16S
ATOM	21778	C8	G	A1034	210.316	119.366	70.446	1.00167.71	A16S
ATOM	21779	C2*	G	A1034	208.499	121.068	67.946	1.00198.84	A16S
ATOM	21780	O2*	G	A1034	207.669	122.154	67.576	1.00198.84	A16S
ATOM	21781	C3*	G	A1034	207.933	119.703	67.572	1.00198.84	A16S
ATOM	21782	O3*	G	A1034	207.328	119.729	66.282	1.00198.84	A16S
ATOM	21783	P	A	A1035	208.261	119.652	64.969	1.00198.67	A16S
ATOM	21784	O1P	A	A1035	207.376	119.584	63.773	1.00198.84	A16S



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ATOM	21785	O2P	A	A1035	209.282	118.591	65.185	1.00198.84	A16S
ATOM	21786	O5*	A	A1035	209.019	121.055	64.945	1.00198.67	A16S
ATOM	21787	C5*	A	A1035	208.314	122.279	64.647	1.00198.67	A16S
ATOM	21788	C4*	A	A1035	209.282	123.352	64.196	1.00198.67	A16S
ATOM	21789	O4*	A	A1035	210.179	123.687	65.290	1.00198.67	A16S
ATOM	21790	C1*	A	A1035	211.472	123.980	64.778	1.00198.67	A16S
ATOM	21791	N9	A	A1035	212.414	122.985	65.297	1.00198.84	A16S
ATOM	21792	C4	A	A1035	213.748	123.188	65.562	1.00198.84	A16S
ATOM	21793	N3	A	A1035	214.446	124.329	65.416	1.00198.84	A16S
ATOM	21794	C2	A	A1035	215.719	124.148	65.759	1.00198.84	A16S
ATOM	21795	N1	A	A1035	216.328	123.041	66.203	1.00198.84	A16S
ATOM	21796	C6	A	A1035	215.598	121.911	66.341	1.00198.84	A16S
ATOM	21797	N6	A	A1035	216.204	120.807	66.788	1.00198.84	A16S
ATOM	21798	C5	A	A1035	214.234	121.969	66.002	1.00198.84	A16S
ATOM	21799	N7	A	A1035	213.227	121.013	66.020	1.00198.84	A16S
ATOM	21800	C8	A	A1035	212.170	121.664	65.600	1.00198.84	A16S
ATOM	21801	C2*	A	A1035	211.393	123.911	63.253	1.00198.67	A16S
ATOM	21802	O2*	A	A1035	211.185	125.204	62.715	1.00198.67	A16S
ATOM	21803	C3*	A	A1035	210.212	122.970	63.053	1.00198.67	A16S
ATOM	21804	O3*	A	A1035	209.619	123.095	61.767	1.00198.67	A16S
ATOM	21805	P	G	A1036	210.191	122.216	60.546	1.00198.84	A16S
ATOM	21806	O1P	G	A1036	209.281	122.427	59.391	1.00198.84	A16S
ATOM	21807	O2P	G	A1036	210.450	120.834	61.032	1.00198.84	A16S
ATOM	21808	O5*	G	A1036	211.591	122.903	60.209	1.00198.84	A16S
ATOM	21809	C5*	G	A1036	211.639	124.239	59.665	1.00198.84	A16S
ATOM	21810	C4*	G	A1036	213.070	124.712	59.512	1.00198.84	A16S
ATOM	21811	O4*	G	A1036	213.693	124.836	60.816	1.00198.84	A16S
ATOM	21812	C1*	G	A1036	215.086	124.602	60.697	1.00198.84	A16S
ATOM	21813	N9	G	A1036	215.481	123.536	61.617	1.00198.84	A16S
ATOM	21814	C4	G	A1036	216.776	123.205	61.948	1.00198.84	A16S
ATOM	21815	N3	G	A1036	217.893	123.809	61.483	1.00198.84	A16S
ATOM	21816	C2	G	A1036	218.995	123.264	61.973	1.00198.84	A16S
ATOM	21817	N2	G	A1036	220.195	123.744	61.608	1.00198.84	A16S
ATOM	21818	N1	G	A1036	219.003	122.210	62.855	1.00198.84	A16S
ATOM	21819	C6	G	A1036	217.869	121.573	63.353	1.00198.84	A16S
ATOM	21820	O6	G	A1036	217.992	120.638	64.151	1.00198.84	A16S
ATOM	21821	C5	G	A1036	216.671	122.147	62.828	1.00198.84	A16S
ATOM	21822	N7	G	A1036	215.337	121.819	63.048	1.00198.84	A16S
ATOM	21823	C8	G	A1036	214.669	122.669	62.313	1.00198.84	A16S
ATOM	21824	C2*	G	A1036	215.392	124.268	59.234	1.00198.84	A16S
ATOM	21825	O2*	G	A1036	215.906	125.413	58.578	1.00198.84	A16S
ATOM	21826	C3*	G	A1036	214.024	123.831	58.714	1.00198.84	A16S
ATOM	21827	O3*	G	A1036	213.918	124.048	57.307	1.00198.84	A16S
ATOM	21828	P	C	A1037	214.055	122.804	56.291	1.00198.84	A16S
ATOM	21829	O1P	C	A1037	214.179	123.381	54.925	1.00198.33	A16S
ATOM	21830	O2P	C	A1037	212.969	121.824	56.580	1.00198.33	A16S
ATOM	21831	O5*	C	A1037	215.447	122.125	56.670	1.00198.84	A16S
ATOM	21832	C5*	C	A1037	216.706	122.778	56.391	1.00198.84	A16S
ATOM	21833	C4*	C	A1037	217.821	122.098	57.151	1.00198.84	A16S
ATOM	21834	O4*	C	A1037	217.501	122.151	58.565	1.00198.84	A16S
ATOM	21835	C1*	C	A1037	217.901	120.947	59.196	1.00198.84	A16S
ATOM	21836	N1	C	A1037	216.721	120.323	59.845	1.00198.33	A16S
ATOM	21837	C6	C	A1037	215.444	120.680	59.496	1.00198.33	A16S
ATOM	21838	C2	C	A1037	216.932	119.358	60.846	1.00198.33	A16S
ATOM	21839	O2	C	A1037	218.097	119.026	61.127	1.00198.33	A16S
ATOM	21840	N3	C	A1037	215.863	118.812	61.475	1.00198.33	A16S
ATOM	21841	C4	C	A1037	214.626	119.184	61.138	1.00198.33	A16S
ATOM	21842	N4	C	A1037	213.606	118.633	61.800	1.00198.33	A16S
ATOM	21843	C5	C	A1037	214.380	120.142	60.111	1.00198.33	A16S
ATOM	21844	C2*	C	A1037	218.595	120.070	58.151	1.00198.84	A16S
ATOM	21845	O2*	C	A1037	219.999	120.226	58.251	1.00198.84	A16S
ATOM	21846	C3*	C	A1037	218.017	120.616	56.849	1.00198.84	A16S
ATOM	21847	O3*	C	A1037	218.907	120.413	55.751	1.00198.84	A16S
ATOM	21848	P	C	A1038	218.979	118.973	55.032	1.00197.76	A16S
ATOM	21849	O1P	C	A1038	220.010	119.063	53.963	1.00188.69	A16S
ATOM	21850	O2P	C	A1038	217.594	118.558	54.684	1.00188.69	A16S
ATOM	21851	O5*	C	A1038	219.506	117.987	56.169	1.00197.76	A16S
ATOM	21852	C5*	C	A1038	220.912	117.699	56.343	1.00197.76	A16S
ATOM	21853	C4*	C	A1038	221.072	116.449	57.174	1.00197.76	A16S
ATOM	21854	O4*	C	A1038	220.369	116.656	58.428	1.00197.76	A16S
ATOM	21855	C1*	C	A1038	219.683	115.470	58.805	1.00197.76	A16S
ATOM	21856	N1	C	A1038	218.232	115.772	58.908	1.00188.69	A16S
ATOM	21857	C6	C	A1038	217.718	116.931	58.393	1.00188.69	A16S
ATOM	21858	C2	C	A1038	217.381	114.855	59.557	1.00188.69	A16S
ATOM	21859	O2	C	A1038	217.847	113.794	59.981	1.00188.69	A16S
ATOM	21860	N3	C	A1038	216.068	115.150	59.691	1.00188.69	A16S
ATOM	21861	C4	C	A1038	215.586	116.291	59.196	1.00188.69	A16S



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ATOM	21862	N4	C	A1038	214.287	116.545	59.361	1.00188.69	A16S
ATOM	21863	C5	C	A1038	216.416	117.226	58.511	1.00188.69	A16S
ATOM	21864	C2*	C	A1038	220.039	114.381	57.790	1.00197.76	A16S
ATOM	21865	O2*	C	A1038	221.098	113.585	58.287	1.00197.76	A16S
ATOM	21866	C3*	C	A1038	220.429	115.207	56.569	1.00197.76	A16S
ATOM	21867	O3*	C	A1038	221.324	114.511	55.703	1.00197.76	A16S
ATOM	21868	P	C	A1039	220.739	113.553	54.546	1.00156.45	A16S
ATOM	21869	O1P	C	A1039	221.769	113.495	53.475	1.00153.26	A16S
ATOM	21870	O2P	C	A1039	219.356	113.986	54.211	1.00153.26	A16S
ATOM	21871	O5*	C	A1039	220.651	112.114	55.225	1.00156.45	A16S
ATOM	21872	C5*	C	A1039	221.843	111.364	55.502	1.00156.45	A16S
ATOM	21873	C4*	C	A1039	221.534	110.188	56.394	1.00156.45	A16S
ATOM	21874	O4*	C	A1039	220.941	110.662	57.634	1.00156.45	A16S
ATOM	21875	C1*	C	A1039	220.018	109.697	58.121	1.00156.45	A16S
ATOM	21876	N1	C	A1039	218.671	110.296	58.188	1.00153.26	A16S
ATOM	21877	C6	C	A1039	218.420	111.542	57.682	1.00153.26	A16S
ATOM	21878	C2	C	A1039	217.633	109.550	58.776	1.00153.26	A16S
ATOM	21879	O2	C	A1039	217.881	108.417	59.231	1.00153.26	A16S
ATOM	21880	N3	C	A1039	216.389	110.081	58.831	1.00153.26	A16S
ATOM	21881	C4	C	A1039	216.156	111.296	58.328	1.00153.26	A16S
ATOM	21882	N4	C	A1039	214.908	111.775	58.402	1.00153.26	A16S
ATOM	21883	C5	C	A1039	217.190	112.074	57.727	1.00153.26	A16S
ATOM	21884	C2*	C	A1039	220.031	108.516	57.154	1.00156.45	A16S
ATOM	21885	O2*	C	A1039	220.885	107.506	57.656	1.00156.45	A16S
ATOM	21886	C3*	C	A1039	220.528	109.174	55.871	1.00156.45	A16S
ATOM	21887	O3*	C	A1039	221.094	108.231	54.971	1.00156.45	A16S
ATOM	21888	P	U	A1040	220.127	107.384	53.997	1.00179.26	A16S
ATOM	21889	O1P	U	A1040	220.990	106.456	53.216	1.00187.51	A16S
ATOM	21890	O2P	U	A1040	219.219	108.324	53.283	1.00187.51	A16S
ATOM	21891	O5*	U	A1040	219.238	106.512	54.993	1.00179.26	A16S
ATOM	21892	C5*	U	A1040	219.845	105.537	55.857	1.00179.26	A16S
ATOM	21893	C4*	U	A1040	218.811	104.920	56.768	1.00179.26	A16S
ATOM	21894	O4*	U	A1040	218.274	105.916	57.678	1.00179.26	A16S
ATOM	21895	C1*	U	A1040	216.929	105.588	57.994	1.00179.26	A16S
ATOM	21896	N1	U	A1040	216.050	106.722	57.660	1.00187.51	A16S
ATOM	21897	C6	U	A1040	216.352	107.616	56.659	1.00187.51	A16S
ATOM	21898	C2	U	A1040	214.884	106.854	58.395	1.00187.51	A16S
ATOM	21899	O2	U	A1040	214.566	106.074	59.279	1.00187.51	A16S
ATOM	21900	N3	U	A1040	214.096	107.926	58.054	1.00187.51	A16S
ATOM	21901	C4	U	A1040	214.340	108.856	57.071	1.00187.51	A16S
ATOM	21902	O4	U	A1040	213.552	109.791	56.916	1.00187.51	A16S
ATOM	21903	C5	U	A1040	215.557	108.649	56.346	1.00187.51	A16S
ATOM	21904	C2*	U	A1040	216.557	104.326	57.218	1.00179.26	A16S
ATOM	21905	O2*	U	A1040	216.671	103.203	58.068	1.00179.26	A16S
ATOM	21906	C3*	U	A1040	217.583	104.339	56.091	1.00179.26	A16S
ATOM	21907	O3*	U	A1040	217.818	103.046	55.559	1.00179.26	A16S
ATOM	21908	P	A	A1041	217.008	102.571	54.256	1.00184.64	A16S
ATOM	21909	O1P	A	A1041	217.708	101.378	53.724	1.00175.75	A16S
ATOM	21910	O2P	A	A1041	216.804	103.755	53.380	1.00175.75	A16S
ATOM	21911	O5*	A	A1041	215.588	102.116	54.824	1.00184.64	A16S
ATOM	21912	C5*	A	A1041	215.454	100.913	55.613	1.00184.64	A16S
ATOM	21913	C4*	A	A1041	214.089	100.854	56.264	1.00184.64	A16S
ATOM	21914	O4*	A	A1041	213.946	101.961	57.188	1.00184.64	A16S
ATOM	21915	C1*	A	A1041	212.599	102.401	57.201	1.00184.64	A16S
ATOM	21916	N9	A	A1041	212.565	103.817	56.833	1.00175.75	A16S
ATOM	21917	C4	A	A1041	211.521	104.685	57.059	1.00175.75	A16S
ATOM	21918	N3	A	A1041	210.342	104.410	57.649	1.00175.75	A16S
ATOM	21919	C2	A	A1041	209.574	105.498	57.694	1.00175.75	A16S
ATOM	21920	N1	A	A1041	209.830	106.736	57.251	1.00175.75	A16S
ATOM	21921	C6	A	A1041	211.024	106.981	56.664	1.00175.75	A16S
ATOM	21922	N6	A	A1041	211.278	108.218	56.225	1.00175.75	A16S
ATOM	21923	C5	A	A1041	211.930	105.906	56.553	1.00175.75	A16S
ATOM	21924	N7	A	A1041	213.207	105.811	56.015	1.00175.75	A16S
ATOM	21925	C8	A	A1041	213.537	104.557	56.204	1.00175.75	A16S
ATOM	21926	C2*	A	A1041	211.800	101.517	56.244	1.00184.64	A16S
ATOM	21927	O2*	A	A1041	211.135	100.513	56.984	1.00184.64	A16S
ATOM	21928	C3*	A	A1041	212.894	100.975	55.329	1.00184.64	A16S
ATOM	21929	O3*	A	A1041	212.541	99.715	54.766	1.00184.64	A16S
ATOM	21930	P	G	A1042	212.136	99.621	53.211	1.00198.67	A16S
ATOM	21931	O1P	G	A1042	212.090	98.168	52.877	1.00145.91	A16S
ATOM	21932	O2P	G	A1042	213.044	100.526	52.444	1.00145.91	A16S
ATOM	21933	O5*	G	A1042	210.647	100.204	53.149	1.00198.67	A16S
ATOM	21934	C5*	G	A1042	209.510	99.349	53.405	1.00198.67	A16S
ATOM	21935	C4*	G	A1042	208.288	100.161	53.789	1.00198.67	A16S
ATOM	21936	O4*	G	A1042	208.656	101.134	54.804	1.00198.67	A16S
ATOM	21937	C1*	G	A1042	207.783	102.249	54.727	1.00198.67	A16S
ATOM	21938	N9	G	A1042	208.546	103.470	54.491	1.00145.91	A16S



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ATOM	21939	C4	G	A1042	208.013	104.737	54.487	1.00145.91	A16S
ATOM	21940	N3	G	A1042	206.716	105.047	54.707	1.00145.91	A16S
ATOM	21941	C2	G	A1042	206.496	106.347	54.633	1.00145.91	A16S
ATOM	21942	N2	G	A1042	205.254	106.822	54.815	1.00145.91	A16S
ATOM	21943	N1	G	A1042	207.477	107.275	54.373	1.00145.91	A16S
ATOM	21944	C6	G	A1042	208.819	106.981	54.147	1.00145.91	A16S
ATOM	21945	O6	G	A1042	209.620	107.900	53.929	1.00145.91	A16S
ATOM	21946	C5	G	A1042	209.066	105.578	54.212	1.00145.91	A16S
ATOM	21947	N7	G	A1042	210.242	104.854	54.043	1.00145.91	A16S
ATOM	21948	C8	G	A1042	209.885	103.609	54.220	1.00145.91	A16S
ATOM	21949	C2*	G	A1042	206.826	102.017	53.563	1.00198.67	A16S
ATOM	21950	O2*	G	A1042	205.589	101.536	54.051	1.00198.67	A16S
ATOM	21951	C3*	G	A1042	207.596	101.006	52.724	1.00198.67	A16S
ATOM	21952	O3*	G	A1042	206.687	100.283	51.902	1.00198.67	A16S
ATOM	21953	P	C	A1043	206.167	100.941	50.524	1.00190.82	A16S
ATOM	21954	O1P	C	A1043	205.012	100.133	50.044	1.00191.57	A16S
ATOM	21955	O2P	C	A1043	207.349	101.127	49.643	1.00191.57	A16S
ATOM	21956	O5*	C	A1043	205.629	102.389	50.932	1.00190.82	A16S
ATOM	21957	C5*	C	A1043	204.337	102.560	51.554	1.00190.82	A16S
ATOM	21958	C4*	C	A1043	203.899	104.008	51.483	1.00190.82	A16S
ATOM	21959	O4*	C	A1043	204.816	104.844	52.235	1.00190.82	A16S
ATOM	21960	C1*	C	A1043	204.902	106.125	51.627	1.00190.82	A16S
ATOM	21961	N1	C	A1043	206.311	106.419	51.292	1.00191.57	A16S
ATOM	21962	C6	C	A1043	207.213	105.414	51.065	1.00191.57	A16S
ATOM	21963	C2	C	A1043	206.714	107.764	51.200	1.00191.57	A16S
ATOM	21964	O2	C	A1043	205.883	108.658	51.417	1.00191.57	A16S
ATOM	21965	N3	C	A1043	207.995	108.051	50.878	1.00191.57	A16S
ATOM	21966	C4	C	A1043	208.864	107.061	50.652	1.00191.57	A16S
ATOM	21967	N4	C	A1043	210.117	107.394	50.328	1.00191.57	A16S
ATOM	21968	C5	C	A1043	208.486	105.687	50.745	1.00191.57	A16S
ATOM	21969	C2*	C	A1043	203.997	106.130	50.396	1.00190.82	A16S
ATOM	21970	O2*	C	A1043	202.775	106.761	50.719	1.00190.82	A16S
ATOM	21971	C3*	C	A1043	203.865	104.639	50.099	1.00190.82	A16S
ATOM	21972	O3*	C	A1043	202.663	104.338	49.401	1.00190.82	A16S
ATOM	21973	P	A	A1044	202.627	104.455	47.798	1.00157.53	A16S
ATOM	21974	O1P	A	A1044	201.379	103.788	47.342	1.00120.82	A16S
ATOM	21975	O2P	A	A1044	203.936	103.990	47.279	1.00120.82	A16S
ATOM	21976	O5*	A	A1044	202.494	106.022	47.531	1.00157.53	A16S
ATOM	21977	C5*	A	A1044	201.286	106.701	47.894	1.00157.53	A16S
ATOM	21978	C4*	A	A1044	201.343	108.167	47.534	1.00157.53	A16S
ATOM	21979	O4*	A	A1044	202.230	108.899	48.417	1.00157.53	A16S
ATOM	21980	C1*	A	A1044	202.597	110.117	47.789	1.00157.53	A16S
ATOM	21981	N9	A	A1044	204.052	110.269	47.804	1.00120.82	A16S
ATOM	21982	C4	A	A1044	204.709	111.467	47.636	1.00120.82	A16S
ATOM	21983	N3	A	A1044	204.155	112.684	47.469	1.00120.82	A16S
ATOM	21984	C2	A	A1044	205.098	113.611	47.311	1.00120.82	A16S
ATOM	21985	N1	A	A1044	206.434	113.473	47.305	1.00120.82	A16S
ATOM	21986	C6	A	A1044	206.960	112.238	47.478	1.00120.82	A16S
ATOM	21987	N6	A	A1044	208.291	112.102	47.473	1.00120.82	A16S
ATOM	21988	C5	A	A1044	206.061	111.163	47.655	1.00120.82	A16S
ATOM	21989	N7	A	A1044	206.255	109.799	47.849	1.00120.82	A16S
ATOM	21990	C8	A	A1044	205.036	109.316	47.939	1.00120.82	A16S
ATOM	21991	C2*	A	A1044	202.081	110.070	46.351	1.00157.53	A16S
ATOM	21992	O2*	A	A1044	200.916	110.867	46.238	1.00157.53	A16S
ATOM	21993	C3*	A	A1044	201.816	108.579	46.153	1.00157.53	A16S
ATOM	21994	O3*	A	A1044	200.841	108.383	45.143	1.00157.53	A16S
ATOM	21995	P	C	A1045	201.304	107.925	43.669	1.00146.95	A16S
ATOM	21996	O1P	C	A1045	200.158	108.221	42.764	1.00116.88	A16S
ATOM	21997	O2P	C	A1045	201.838	106.527	43.760	1.00116.88	A16S
ATOM	21998	O5*	C	A1045	202.506	108.909	43.285	1.00146.95	A16S
ATOM	21999	C5*	C	A1045	202.318	110.342	43.253	1.00146.95	A16S
ATOM	22000	C4*	C	A1045	203.616	111.061	43.571	1.00146.95	A16S
ATOM	22001	O4*	C	A1045	204.477	110.210	44.372	1.00146.95	A16S
ATOM	22002	C1*	C	A1045	205.837	110.529	44.115	1.00146.95	A16S
ATOM	22003	N1	C	A1045	206.575	109.307	43.742	1.00116.88	A16S
ATOM	22004	C6	C	A1045	205.914	108.171	43.363	1.00116.88	A16S
ATOM	22005	C2	C	A1045	207.981	109.322	43.801	1.00116.88	A16S
ATOM	22006	O2	C	A1045	208.567	110.377	44.104	1.00116.88	A16S
ATOM	22007	N3	C	A1045	208.662	108.189	43.519	1.00116.88	A16S
ATOM	22008	C4	C	A1045	208.002	107.080	43.177	1.00116.88	A16S
ATOM	22009	N4	C	A1045	208.712	105.978	42.931	1.00116.88	A16S
ATOM	22010	C5	C	A1045	206.581	107.048	43.077	1.00116.88	A16S
ATOM	22011	C2*	C	A1045	205.869	111.609	43.044	1.00146.95	A16S
ATOM	22012	O2*	C	A1045	205.987	112.861	43.680	1.00146.95	A16S
ATOM	22013	C3*	C	A1045	204.500	111.457	42.402	1.00146.95	A16S
ATOM	22014	O3*	C	A1045	204.111	112.706	41.869	1.00146.95	A16S
ATOM	22015	P	A	A1046	204.768	113.210	40.498	1.00126.45	A16S



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ATOM	22016	O1P	A	A1046	204.208	114.564	40.202	1.00	88.78	A16S
ATOM	22017	O2P	A	A1046	204.610	112.094	39.514	1.00	88.78	A16S
ATOM	22018	O5*	A	A1046	206.322	113.358	40.823	1.00126.45		A16S
ATOM	22019	C5*	A	A1046	207.292	113.365	39.759	1.00126.45		A16S
ATOM	22020	C4*	A	A1046	208.679	113.597	40.303	1.00126.45		A16S
ATOM	22021	O4*	A	A1046	209.026	112.525	41.211	1.00126.45		A16S
ATOM	22022	C1*	A	A1046	210.386	112.170	41.038	1.00126.45		A16S
ATOM	22023	N9	A	A1046	210.418	110.803	40.528	1.00	88.78	A16S
ATOM	22024	C4	A	A1046	211.534	110.034	40.293	1.00	88.78	A16S
ATOM	22025	N3	A	A1046	212.822	110.380	40.480	1.00	88.78	A16S
ATOM	22026	C2	A	A1046	213.634	109.371	40.148	1.00	88.78	A16S
ATOM	22027	N1	A	A1046	213.324	108.147	39.683	1.00	88.78	A16S
ATOM	22028	C6	A	A1046	212.018	107.833	39.507	1.00	88.78	A16S
ATOM	22029	N6	A	A1046	211.706	106.618	39.048	1.00	88.78	A16S
ATOM	22030	C5	A	A1046	211.060	108.818	39.823	1.00	88.78	A16S
ATOM	22031	N7	A	A1046	209.674	108.824	39.759	1.00	88.78	A16S
ATOM	22032	C8	A	A1046	209.343	110.020	40.183	1.00	88.78	A16S
ATOM	22033	C2*	A	A1046	210.994	113.148	40.038	1.00126.45		A16S
ATOM	22034	O2*	A	A1046	211.563	114.249	40.710	1.00126.45		A16S
ATOM	22035	C3*	A	A1046	209.768	113.555	39.247	1.00126.45		A16S
ATOM	22036	O3*	A	A1046	209.941	114.804	38.618	1.00126.45		A16S
ATOM	22037	P	G	A1047	209.981	114.874	37.017	1.00110.13		A16S
ATOM	22038	O1P	G	A1047	210.322	116.282	36.679	1.00	82.66	A16S
ATOM	22039	O2P	G	A1047	208.732	114.261	36.476	1.00	82.66	A16S
ATOM	22040	O5*	G	A1047	211.176	113.902	36.613	1.00110.13		A16S
ATOM	22041	C5*	G	A1047	212.531	114.160	37.018	1.00110.13		A16S
ATOM	22042	C4*	G	A1047	213.403	112.994	36.633	1.00110.13		A16S
ATOM	22043	O4*	G	A1047	213.008	111.834	37.411	1.00110.13		A16S
ATOM	22044	C1*	G	A1047	213.022	110.669	36.595	1.00110.13		A16S
ATOM	22045	N9	G	A1047	211.644	110.218	36.427	1.00	82.66	A16S
ATOM	22046	C4	G	A1047	211.242	109.003	35.931	1.00	82.66	A16S
ATOM	22047	N3	G	A1047	212.057	108.013	35.514	1.00	82.66	A16S
ATOM	22048	C2	G	A1047	211.375	106.968	35.072	1.00	82.66	A16S
ATOM	22049	N2	G	A1047	212.029	105.900	34.599	1.00	82.66	A16S
ATOM	22050	N1	G	A1047	210.000	106.890	35.056	1.00	82.66	A16S
ATOM	22051	C6	G	A1047	209.137	107.892	35.489	1.00	82.66	A16S
ATOM	22052	O6	G	A1047	207.904	107.712	35.446	1.00	82.66	A16S
ATOM	22053	C5	G	A1047	209.860	109.036	35.950	1.00	82.66	A16S
ATOM	22054	N7	G	A1047	209.404	110.255	36.442	1.00	82.66	A16S
ATOM	22055	C8	G	A1047	210.493	110.921	36.715	1.00	82.66	A16S
ATOM	22056	C2*	G	A1047	213.590	111.070	35.239	1.00110.13		A16S
ATOM	22057	O2*	G	A1047	214.980	110.815	35.189	1.00110.13		A16S
ATOM	22058	C3*	G	A1047	213.213	112.542	35.197	1.00110.13		A16S
ATOM	22059	O3*	G	A1047	213.922	113.300	34.247	1.00110.13		A16S
ATOM	22060	P	G	A1048	213.274	113.501	32.796	1.00	99.06	A16S
ATOM	22061	O1P	G	A1048	214.163	114.416	32.027	1.00108.75		A16S
ATOM	22062	O2P	G	A1048	211.848	113.861	32.986	1.00108.75		A16S
ATOM	22063	O5*	G	A1048	213.313	112.033	32.170	1.00	99.06	A16S
ATOM	22064	C5*	G	A1048	214.569	111.363	31.964	1.00	99.06	A16S
ATOM	22065	C4*	G	A1048	214.392	110.121	31.117	1.00	99.06	A16S
ATOM	22066	O4*	G	A1048	213.779	109.058	31.900	1.00	99.06	A16S
ATOM	22067	C1*	G	A1048	212.972	108.253	31.053	1.00	99.06	A16S
ATOM	22068	N9	G	A1048	211.573	108.452	31.420	1.00108.75		A16S
ATOM	22069	C4	G	A1048	210.538	107.600	31.137	1.00108.75		A16S
ATOM	22070	N3	G	A1048	210.650	106.391	30.553	1.00108.75		A16S
ATOM	22071	C2	G	A1048	209.475	105.828	30.364	1.00108.75		A16S
ATOM	22072	N2	G	A1048	209.410	104.616	29.798	1.00108.75		A16S
ATOM	22073	N1	G	A1048	208.280	106.411	30.715	1.00108.75		A16S
ATOM	22074	C6	G	A1048	208.145	107.659	31.315	1.00108.75		A16S
ATOM	22075	O6	G	A1048	207.022	108.103	31.574	1.00108.75		A16S
ATOM	22076	C5	G	A1048	209.398	108.265	31.536	1.00108.75		A16S
ATOM	22077	N7	G	A1048	209.714	109.487	32.109	1.00108.75		A16S
ATOM	22078	C8	G	A1048	211.016	109.550	32.035	1.00108.75		A16S
ATOM	22079	C2*	G	A1048	213.148	108.775	29.624	1.00	99.06	A16S
ATOM	22080	O2*	G	A1048	214.157	108.048	28.947	1.00	99.06	A16S
ATOM	22081	C3*	G	A1048	213.505	110.232	29.885	1.00	99.06	A16S
ATOM	22082	O3*	G	A1048	214.087	110.900	28.776	1.00	99.06	A16S
ATOM	22083	P	U	A1049	213.355	112.212	28.183	1.00	89.58	A16S
ATOM	22084	O1P	U	A1049	214.007	113.399	28.794	1.00	93.22	A16S
ATOM	22085	O2P	U	A1049	211.885	112.034	28.329	1.00	93.22	A16S
ATOM	22086	O5*	U	A1049	213.717	112.227	26.627	1.00	89.58	A16S
ATOM	22087	C5*	U	A1049	213.572	111.044	25.794	1.00	89.58	A16S
ATOM	22088	C4*	U	A1049	214.890	110.721	25.129	1.00	89.58	A16S
ATOM	22089	O4*	U	A1049	215.286	111.825	24.292	1.00	89.58	A16S
ATOM	22090	C1*	U	A1049	216.690	111.930	24.284	1.00	89.58	A16S
ATOM	22091	N1	U	A1049	217.048	113.353	24.267	1.00	93.22	A16S
ATOM	22092	C6	U	A1049	216.140	114.318	24.633	1.00	93.22	A16S



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ATOM	22093	C2	U	A1049	218.315	113.696	23.835	1.00	93.22	A16S
ATOM	22094	O2	U	A1049	219.167	112.870	23.556	1.00	93.22	A16S
ATOM	22095	N3	U	A1049	218.548	115.046	23.750	1.00	93.22	A16S
ATOM	22096	C4	U	A1049	217.667	116.065	24.066	1.00	93.22	A16S
ATOM	22097	O4	U	A1049	217.988	117.234	23.854	1.00	93.22	A16S
ATOM	22098	C5	U	A1049	216.398	115.625	24.550	1.00	93.22	A16S
ATOM	22099	C2*	U	A1049	217.282	111.051	25.387	1.00	89.58	A16S
ATOM	22100	O2*	U	A1049	218.102	110.056	24.834	1.00	89.58	A16S
ATOM	22101	C3*	U	A1049	216.035	110.540	26.110	1.00	89.58	A16S
ATOM	22102	O3*	U	A1049	216.066	109.175	26.562	1.00	89.58	A16S
ATOM	22103	P	G	A1050	216.325	107.969	25.521	1.00	104.94	A16S
ATOM	22104	O1P	G	A1050	217.439	107.130	26.037	1.00	85.12	A16S
ATOM	22105	O2P	G	A1050	216.405	108.519	24.156	1.00	85.12	A16S
ATOM	22106	O5*	G	A1050	215.004	107.083	25.599	1.00	104.94	A16S
ATOM	22107	C5*	G	A1050	215.094	105.681	25.336	1.00	104.94	A16S
ATOM	22108	C4*	G	A1050	213.748	105.078	24.992	1.00	104.94	A16S
ATOM	22109	O4*	G	A1050	212.909	104.986	26.170	1.00	104.94	A16S
ATOM	22110	C1*	G	A1050	211.569	104.773	25.758	1.00	104.94	A16S
ATOM	22111	N9	G	A1050	210.695	105.795	26.323	1.00	85.12	A16S
ATOM	22112	C4	G	A1050	209.321	105.717	26.372	1.00	85.12	A16S
ATOM	22113	N3	G	A1050	208.572	104.675	25.944	1.00	85.12	A16S
ATOM	22114	C2	G	A1050	207.282	104.902	26.089	1.00	85.12	A16S
ATOM	22115	N2	G	A1050	206.402	103.972	25.696	1.00	85.12	A16S
ATOM	22116	N1	G	A1050	206.763	106.056	26.625	1.00	85.12	A16S
ATOM	22117	C6	G	A1050	207.514	107.137	27.081	1.00	85.12	A16S
ATOM	22118	O6	G	A1050	206.946	108.125	27.561	1.00	85.12	A16S
ATOM	22119	C5	G	A1050	208.905	106.911	26.915	1.00	85.12	A16S
ATOM	22120	N7	G	A1050	209.995	107.719	27.216	1.00	85.12	A16S
ATOM	22121	C8	G	A1050	211.034	107.013	26.857	1.00	85.12	A16S
ATOM	22122	C2*	G	A1050	211.537	104.890	24.237	1.00	104.94	A16S
ATOM	22123	O2*	G	A1050	211.583	103.593	23.667	1.00	104.94	A16S
ATOM	22124	C3*	G	A1050	212.807	105.682	23.954	1.00	104.94	A16S
ATOM	22125	O3*	G	A1050	213.157	105.470	22.588	1.00	104.94	A16S
ATOM	22126	P	C	A1051	212.338	106.242	21.429	1.00	95.20	A16S
ATOM	22127	O1P	C	A1051	212.966	105.882	20.137	1.00	88.15	A16S
ATOM	22128	O2P	C	A1051	212.187	107.679	21.800	1.00	88.15	A16S
ATOM	22129	O5*	C	A1051	210.895	105.569	21.442	1.00	95.20	A16S
ATOM	22130	C5*	C	A1051	210.687	104.246	20.907	1.00	95.20	A16S
ATOM	22131	C4*	C	A1051	209.224	104.033	20.571	1.00	95.20	A16S
ATOM	22132	O4*	C	A1051	208.416	104.032	21.784	1.00	95.20	A16S
ATOM	22133	C1*	C	A1051	207.141	104.601	21.512	1.00	95.20	A16S
ATOM	22134	N1	C	A1051	206.951	105.810	22.347	1.00	88.15	A16S
ATOM	22135	C6	C	A1051	208.020	106.463	22.898	1.00	88.15	A16S
ATOM	22136	C2	C	A1051	205.648	106.299	22.546	1.00	88.15	A16S
ATOM	22137	O2	C	A1051	204.684	105.667	22.077	1.00	88.15	A16S
ATOM	22138	N3	C	A1051	205.474	107.443	23.249	1.00	88.15	A16S
ATOM	22139	C4	C	A1051	206.530	108.086	23.756	1.00	88.15	A16S
ATOM	22140	N4	C	A1051	206.311	109.230	24.414	1.00	88.15	A16S
ATOM	22141	C5	C	A1051	207.856	107.591	23.604	1.00	88.15	A16S
ATOM	22142	C2*	C	A1051	207.098	104.944	20.020	1.00	95.20	A16S
ATOM	22143	O2*	C	A1051	206.500	103.885	19.298	1.00	95.20	A16S
ATOM	22144	C3*	C	A1051	208.577	105.093	19.689	1.00	95.20	A16S
ATOM	22145	O3*	C	A1051	208.821	104.885	18.307	1.00	95.20	A16S
ATOM	22146	P	U	A1052	208.636	106.107	17.280	1.00	88.60	A16S
ATOM	22147	O1P	U	A1052	208.922	105.564	15.931	1.00	104.96	A16S
ATOM	22148	O2P	U	A1052	209.398	107.281	17.777	1.00	104.96	A16S
ATOM	22149	O5*	U	A1052	207.083	106.458	17.353	1.00	88.60	A16S
ATOM	22150	C5*	U	A1052	206.097	105.528	16.871	1.00	88.60	A16S
ATOM	22151	C4*	U	A1052	204.710	106.043	17.149	1.00	88.60	A16S
ATOM	22152	O4*	U	A1052	204.527	106.187	18.580	1.00	88.60	A16S
ATOM	22153	C1*	U	A1052	203.673	107.289	18.844	1.00	88.60	A16S
ATOM	22154	N1	U	A1052	204.364	108.262	19.708	1.00	104.96	A16S
ATOM	22155	C6	U	A1052	205.728	108.241	19.884	1.00	104.96	A16S
ATOM	22156	C2	U	A1052	203.586	109.232	20.328	1.00	104.96	A16S
ATOM	22157	O2	U	A1052	202.368	109.264	20.241	1.00	104.96	A16S
ATOM	22158	N3	U	A1052	204.285	110.161	21.057	1.00	104.96	A16S
ATOM	22159	C4	U	A1052	205.646	110.219	21.242	1.00	104.96	A16S
ATOM	22160	O4	U	A1052	206.135	111.185	21.834	1.00	104.96	A16S
ATOM	22161	C5	U	A1052	206.377	109.160	20.611	1.00	104.96	A16S
ATOM	22162	C2*	U	A1052	203.272	107.897	17.501	1.00	88.60	A16S
ATOM	22163	O2*	U	A1052	201.999	107.389	17.158	1.00	88.60	A16S
ATOM	22164	C3*	U	A1052	204.395	107.416	16.586	1.00	88.60	A16S
ATOM	22165	O3*	U	A1052	203.972	107.327	15.229	1.00	88.60	A16S
ATOM	22166	P	G	A1053	204.720	108.192	14.087	1.00	81.58	A16S
ATOM	22167	O1P	G	A1053	203.841	108.132	12.879	1.00	87.74	A16S
ATOM	22168	O2P	G	A1053	206.151	107.772	13.991	1.00	87.74	A16S
ATOM	22169	O5*	G	A1053	204.695	109.694	14.607	1.00	81.58	A16S



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ATOM	22170	C5*	G	A1053	205.258	110.724	13.803	1.00	81.58	A16S
ATOM	22171	C4*	G	A1053	204.355	111.917	13.787	1.00	81.58	A16S
ATOM	22172	O4*	G	A1053	204.698	112.782	14.900	1.00	81.58	A16S
ATOM	22173	C1*	G	A1053	205.011	114.066	14.404	1.00	81.58	A16S
ATOM	22174	N9	G	A1053	206.031	114.690	15.234	1.00	87.74	A16S
ATOM	22175	C4	G	A1053	205.890	115.891	15.851	1.00	87.74	A16S
ATOM	22176	N3	G	A1053	204.788	116.665	15.807	1.00	87.74	A16S
ATOM	22177	C2	G	A1053	204.948	117.776	16.483	1.00	87.74	A16S
ATOM	22178	N2	G	A1053	203.950	118.666	16.535	1.00	87.74	A16S
ATOM	22179	N1	G	A1053	206.099	118.097	17.159	1.00	87.74	A16S
ATOM	22180	C6	G	A1053	207.239	117.300	17.226	1.00	87.74	A16S
ATOM	22181	O6	G	A1053	208.213	117.666	17.888	1.00	87.74	A16S
ATOM	22182	C5	G	A1053	207.084	116.119	16.492	1.00	87.74	A16S
ATOM	22183	N7	G	A1053	207.965	115.071	16.282	1.00	87.74	A16S
ATOM	22184	C8	G	A1053	207.295	114.239	15.534	1.00	87.74	A16S
ATOM	22185	C2*	G	A1053	205.452	113.870	12.962	1.00	81.58	A16S
ATOM	22186	O2*	G	A1053	205.276	115.054	12.205	1.00	81.58	A16S
ATOM	22187	C3*	G	A1053	204.513	112.763	12.530	1.00	81.58	A16S
ATOM	22188	O3*	G	A1053	203.268	113.349	12.166	1.00	81.58	A16S
ATOM	22189	P	C	A1054	202.876	113.450	10.625	1.00	96.61	A16S
ATOM	22190	O1P	C	A1054	204.059	114.038	9.975	1.00	110.55	A16S
ATOM	22191	O2P	C	A1054	201.558	114.107	10.477	1.00	110.55	A16S
ATOM	22192	O5*	C	A1054	202.753	111.917	10.213	1.00	96.61	A16S
ATOM	22193	C5*	C	A1054	202.575	110.892	11.235	1.00	96.61	A16S
ATOM	22194	C4*	C	A1054	201.120	110.794	11.614	1.00	96.61	A16S
ATOM	22195	O4*	C	A1054	200.419	110.069	10.570	1.00	96.61	A16S
ATOM	22196	C1*	C	A1054	199.308	109.397	11.118	1.00	96.61	A16S
ATOM	22197	N1	C	A1054	199.457	107.948	10.883	1.00	110.55	A16S
ATOM	22198	C6	C	A1054	199.999	107.131	11.845	1.00	110.55	A16S
ATOM	22199	C2	C	A1054	199.010	107.406	9.659	1.00	110.55	A16S
ATOM	22200	O2	C	A1054	198.561	108.164	8.788	1.00	110.55	A16S
ATOM	22201	N3	C	A1054	199.086	106.069	9.462	1.00	110.55	A16S
ATOM	22202	C4	C	A1054	199.595	105.279	10.420	1.00	110.55	A16S
ATOM	22203	N4	C	A1054	199.634	103.959	10.189	1.00	110.55	A16S
ATOM	22204	C5	C	A1054	200.083	105.807	11.661	1.00	110.55	A16S
ATOM	22205	C2*	C	A1054	199.274	109.757	12.596	1.00	96.61	A16S
ATOM	22206	O2*	C	A1054	198.545	110.964	12.712	1.00	96.61	A16S
ATOM	22207	C3*	C	A1054	200.736	110.041	12.875	1.00	96.61	A16S
ATOM	22208	O3*	C	A1054	200.834	110.829	14.053	1.00	96.61	A16S
ATOM	22209	P	A	A1055	200.527	110.154	15.489	1.00	76.59	A16S
ATOM	22210	O1P	A	A1055	201.581	110.620	16.413	1.00	98.48	A16S
ATOM	22211	O2P	A	A1055	200.284	108.686	15.319	1.00	98.48	A16S
ATOM	22212	O5*	A	A1055	199.177	110.847	15.973	1.00	76.59	A16S
ATOM	22213	C5*	A	A1055	197.890	110.300	15.617	1.00	76.59	A16S
ATOM	22214	C4*	A	A1055	196.788	111.059	16.313	1.00	76.59	A16S
ATOM	22215	O4*	A	A1055	196.837	110.778	17.741	1.00	76.59	A16S
ATOM	22216	C1*	A	A1055	196.585	111.967	18.469	1.00	76.59	A16S
ATOM	22217	N9	A	A1055	197.835	112.367	19.125	1.00	98.48	A16S
ATOM	22218	C4	A	A1055	198.032	113.476	19.914	1.00	98.48	A16S
ATOM	22219	N3	A	A1055	197.123	114.396	20.271	1.00	98.48	A16S
ATOM	22220	C2	A	A1055	197.681	115.340	21.034	1.00	98.48	A16S
ATOM	22221	N1	A	A1055	198.947	115.464	21.440	1.00	98.48	A16S
ATOM	22222	C6	A	A1055	199.836	114.531	21.052	1.00	98.48	A16S
ATOM	22223	N6	A	A1055	201.105	114.669	21.430	1.00	98.48	A16S
ATOM	22224	C5	A	A1055	199.369	113.467	20.254	1.00	98.48	A16S
ATOM	22225	N7	A	A1055	200.006	112.362	19.708	1.00	98.48	A16S
ATOM	22226	C8	A	A1055	199.055	111.741	19.055	1.00	98.48	A16S
ATOM	22227	C2*	A	A1055	196.145	113.020	17.450	1.00	76.59	A16S
ATOM	22228	O2*	A	A1055	194.746	112.939	17.232	1.00	76.59	A16S
ATOM	22229	C3*	A	A1055	196.898	112.569	16.213	1.00	76.59	A16S
ATOM	22230	O3*	A	A1055	196.336	113.108	15.032	1.00	76.59	A16S
ATOM	22231	P	U	A1056	196.933	114.484	14.437	1.00	67.26	A16S
ATOM	22232	O1P	U	A1056	195.930	115.108	13.521	1.00	91.55	A16S
ATOM	22233	O2P	U	A1056	198.314	114.205	13.943	1.00	91.55	A16S
ATOM	22234	O5*	U	A1056	197.086	115.439	15.702	1.00	67.26	A16S
ATOM	22235	C5*	U	A1056	197.818	116.670	15.595	1.00	67.26	A16S
ATOM	22236	C4*	U	A1056	197.763	117.431	16.894	1.00	67.26	A16S
ATOM	22237	O4*	U	A1056	198.346	116.644	17.970	1.00	67.26	A16S
ATOM	22238	C1*	U	A1056	199.039	117.502	18.865	1.00	67.26	A16S
ATOM	22239	N1	U	A1056	200.443	117.059	18.959	1.00	91.55	A16S
ATOM	22240	C6	U	A1056	200.839	115.827	18.486	1.00	91.55	A16S
ATOM	22241	C2	U	A1056	201.370	117.921	19.538	1.00	91.55	A16S
ATOM	22242	O2	U	A1056	201.073	119.024	19.978	1.00	91.55	A16S
ATOM	22243	N3	U	A1056	202.659	117.444	19.580	1.00	91.55	A16S
ATOM	22244	C4	U	A1056	203.116	116.229	19.117	1.00	91.55	A16S
ATOM	22245	O4	U	A1056	204.323	115.976	19.165	1.00	91.55	A16S
ATOM	22246	C5	U	A1056	202.107	115.396	18.547	1.00	91.55	A16S



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ATOM	22247	C2* U	A1056	198.862	118.941	18.359	1.00	67.26	A16S
ATOM	22248	O2* U	A1056	197.800	119.574	19.047	1.00	67.26	A16S
ATOM	22249	C3* U	A1056	198.557	118.721	16.886	1.00	67.26	A16S
ATOM	22250	O3* U	A1056	197.804	119.780	16.327	1.00	67.26	A16S
ATOM	22251	P G	A1057	198.567	121.002	15.619	1.00	74.07	A16S
ATOM	22252	O1P G	A1057	197.550	121.810	14.900	1.00	97.96	A16S
ATOM	22253	O2P G	A1057	199.730	120.457	14.872	1.00	97.96	A16S
ATOM	22254	O5* G	A1057	199.139	121.866	16.832	1.00	74.07	A16S
ATOM	22255	C5* G	A1057	198.245	122.497	17.767	1.00	74.07	A16S
ATOM	22256	C4* G	A1057	199.013	123.332	18.760	1.00	74.07	A16S
ATOM	22257	O4* G	A1057	199.863	122.472	19.550	1.00	74.07	A16S
ATOM	22258	C1* G	A1057	201.032	123.178	19.918	1.00	74.07	A16S
ATOM	22259	N9 G	A1057	202.195	122.394	19.522	1.00	97.96	A16S
ATOM	22260	C4 G	A1057	203.466	122.529	20.015	1.00	97.96	A16S
ATOM	22261	N3 G	A1057	203.858	123.406	20.958	1.00	97.96	A16S
ATOM	22262	C2 G	A1057	205.140	123.278	21.242	1.00	97.96	A16S
ATOM	22263	N2 G	A1057	205.700	124.052	22.176	1.00	97.96	A16S
ATOM	22264	N1 G	A1057	205.973	122.377	20.636	1.00	97.96	A16S
ATOM	22265	C6 G	A1057	205.593	121.474	19.656	1.00	97.96	A16S
ATOM	22266	O6 G	A1057	206.431	120.712	19.166	1.00	97.96	A16S
ATOM	22267	C5 G	A1057	204.216	121.585	19.354	1.00	97.96	A16S
ATOM	22268	N7 G	A1057	203.431	120.867	18.465	1.00	97.96	A16S
ATOM	22269	C8 G	A1057	202.241	121.382	18.597	1.00	97.96	A16S
ATOM	22270	C2* G	A1057	200.978	124.574	19.294	1.00	74.07	A16S
ATOM	22271	O2* G	A1057	200.584	125.500	20.285	1.00	74.07	A16S
ATOM	22272	C3* G	A1057	199.944	124.388	18.189	1.00	74.07	A16S
ATOM	22273	O3* G	A1057	199.236	125.591	17.955	1.00	74.07	A16S
ATOM	22274	P G	A1058	199.761	126.612	16.838	1.00	71.70	A16S
ATOM	22275	O1P G	A1058	199.049	127.914	16.963	1.00	88.40	A16S
ATOM	22276	O2P G	A1058	199.734	125.881	15.548	1.00	88.40	A16S
ATOM	22277	O5* G	A1058	201.285	126.843	17.227	1.00	71.70	A16S
ATOM	22278	C5* G	A1058	201.641	127.574	18.407	1.00	71.70	A16S
ATOM	22279	C4* G	A1058	203.135	127.565	18.589	1.00	71.70	A16S
ATOM	22280	O4* G	A1058	203.590	126.254	18.997	1.00	71.70	A16S
ATOM	22281	C1* G	A1058	204.862	126.007	18.437	1.00	71.70	A16S
ATOM	22282	N9 G	A1058	204.773	124.793	17.639	1.00	88.40	A16S
ATOM	22283	C4 G	A1058	205.803	123.938	17.310	1.00	88.40	A16S
ATOM	22284	N3 G	A1058	207.093	124.058	17.694	1.00	88.40	A16S
ATOM	22285	C2 G	A1058	207.839	123.076	17.214	1.00	88.40	A16S
ATOM	22286	N2 G	A1058	209.146	123.015	17.511	1.00	88.40	A16S
ATOM	22287	N1 G	A1058	207.359	122.074	16.409	1.00	88.40	A16S
ATOM	22288	C6 G	A1058	206.040	121.940	15.998	1.00	88.40	A16S
ATOM	22289	O6 G	A1058	205.714	121.006	15.261	1.00	88.40	A16S
ATOM	22290	C5 G	A1058	205.229	122.968	16.518	1.00	88.40	A16S
ATOM	22291	N7 G	A1058	203.871	123.197	16.364	1.00	88.40	A16S
ATOM	22292	C8 G	A1058	203.645	124.284	17.049	1.00	88.40	A16S
ATOM	22293	C2* G	A1058	205.266	127.227	17.599	1.00	71.70	A16S
ATOM	22294	O2* G	A1058	206.166	128.035	18.328	1.00	71.70	A16S
ATOM	22295	C3* G	A1058	203.923	127.896	17.338	1.00	71.70	A16S
ATOM	22296	O3* G	A1058	204.024	129.311	17.197	1.00	71.70	A16S
ATOM	22297	P C	A1059	204.167	129.964	15.739	1.00	81.93	A16S
ATOM	22298	O1P C	A1059	204.219	131.445	15.887	1.00	91.59	A16S
ATOM	22299	O2P C	A1059	203.130	129.349	14.874	1.00	91.59	A16S
ATOM	22300	O5* C	A1059	205.599	129.452	15.268	1.00	81.93	A16S
ATOM	22301	C5* C	A1059	206.785	129.803	16.013	1.00	81.93	A16S
ATOM	22302	C4* C	A1059	207.987	129.035	15.504	1.00	81.93	A16S
ATOM	22303	O4* C	A1059	207.926	127.655	15.944	1.00	81.93	A16S
ATOM	22304	C1* C	A1059	208.441	126.812	14.928	1.00	81.93	A16S
ATOM	22305	N1 C	A1059	207.344	125.957	14.429	1.00	91.59	A16S
ATOM	22306	C6 C	A1059	206.087	126.466	14.232	1.00	91.59	A16S
ATOM	22307	C2 C	A1059	207.609	124.610	14.145	1.00	91.59	A16S
ATOM	22308	O2 C	A1059	208.749	124.167	14.341	1.00	91.59	A16S
ATOM	22309	N3 C	A1059	206.615	123.825	13.665	1.00	91.59	A16S
ATOM	22310	C4 C	A1059	205.397	124.333	13.473	1.00	91.59	A16S
ATOM	22311	N4 C	A1059	204.447	123.517	13.002	1.00	91.59	A16S
ATOM	22312	C5 C	A1059	205.096	125.699	13.758	1.00	91.59	A16S
ATOM	22313	C2* C	A1059	208.988	127.712	13.821	1.00	81.93	A16S
ATOM	22314	O2* C	A1059	210.348	128.006	14.066	1.00	81.93	A16S
ATOM	22315	C3* C	A1059	208.129	128.948	13.994	1.00	81.93	A16S
ATOM	22316	O3* C	A1059	208.717	130.095	13.409	1.00	81.93	A16S
ATOM	22317	P C	A1060	208.360	130.461	11.883	1.00	83.20	A16S
ATOM	22318	O1P C	A1060	209.037	131.754	11.539	1.00	83.37	A16S
ATOM	22319	O2P C	A1060	206.874	130.348	11.719	1.00	83.37	A16S
ATOM	22320	O5* C	A1060	209.060	129.266	11.079	1.00	83.20	A16S
ATOM	22321	C5* C	A1060	210.487	129.036	11.198	1.00	83.20	A16S
ATOM	22322	C4* C	A1060	210.926	127.805	10.421	1.00	83.20	A16S
ATOM	22323	O4* C	A1060	210.424	126.593	11.035	1.00	83.20	A16S



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ATOM	22324	C1*	C	A1060	210.234	125.602	10.038	1.00	83.20	A16S
ATOM	22325	N1	C	A1060	208.806	125.238	9.991	1.00	83.37	A16S
ATOM	22326	C6	C	A1060	207.856	126.071	10.511	1.00	83.37	A16S
ATOM	22327	C2	C	A1060	208.429	124.036	9.385	1.00	83.37	A16S
ATOM	22328	O2	C	A1060	209.303	123.281	8.954	1.00	83.37	A16S
ATOM	22329	N3	C	A1060	207.122	123.730	9.288	1.00	83.37	A16S
ATOM	22330	C4	C	A1060	206.206	124.566	9.775	1.00	83.37	A16S
ATOM	22331	N4	C	A1060	204.925	124.248	9.627	1.00	83.37	A16S
ATOM	22332	C5	C	A1060	206.560	125.773	10.427	1.00	83.37	A16S
ATOM	22333	C2*	C	A1060	210.692	126.193	8.706	1.00	83.20	A16S
ATOM	22334	O2*	C	A1060	212.036	125.813	8.518	1.00	83.20	A16S
ATOM	22335	C3*	C	A1060	210.541	127.688	8.955	1.00	83.20	A16S
ATOM	22336	O3*	C	A1060	211.430	128.430	8.140	1.00	83.20	A16S
ATOM	22337	P	G	A1061	211.025	128.770	6.626	1.00	68.96	A16S
ATOM	22338	O1P	G	A1061	212.040	129.708	6.065	1.00	89.83	A16S
ATOM	22339	O2P	G	A1061	209.601	129.147	6.612	1.00	89.83	A16S
ATOM	22340	O5*	G	A1061	211.161	127.373	5.871	1.00	68.96	A16S
ATOM	22341	C5*	G	A1061	212.430	126.685	5.804	1.00	68.96	A16S
ATOM	22342	C4*	G	A1061	212.309	125.394	5.016	1.00	68.96	A16S
ATOM	22343	O4*	G	A1061	211.472	124.441	5.723	1.00	68.96	A16S
ATOM	22344	C1*	G	A1061	210.701	123.690	4.789	1.00	68.96	A16S
ATOM	22345	N9	G	A1061	209.278	123.979	5.017	1.00	89.83	A16S
ATOM	22346	C4	G	A1061	208.191	123.304	4.488	1.00	89.83	A16S
ATOM	22347	N3	G	A1061	208.238	122.247	3.655	1.00	89.83	A16S
ATOM	22348	C2	G	A1061	207.031	121.813	3.343	1.00	89.83	A16S
ATOM	22349	N2	G	A1061	206.893	120.765	2.538	1.00	89.83	A16S
ATOM	22350	N1	G	A1061	205.870	122.373	3.800	1.00	89.83	A16S
ATOM	22351	C6	G	A1061	205.793	123.463	4.655	1.00	89.83	A16S
ATOM	22352	O6	G	A1061	204.688	123.891	5.012	1.00	89.83	A16S
ATOM	22353	C5	G	A1061	207.080	123.938	5.006	1.00	89.83	A16S
ATOM	22354	N7	G	A1061	207.451	124.991	5.831	1.00	89.83	A16S
ATOM	22355	C8	G	A1061	208.756	124.980	5.808	1.00	89.83	A16S
ATOM	22356	C2*	G	A1061	211.182	124.091	3.394	1.00	68.96	A16S
ATOM	22357	O2*	G	A1061	212.241	123.236	3.011	1.00	68.96	A16S
ATOM	22358	C3*	G	A1061	211.680	125.505	3.640	1.00	68.96	A16S
ATOM	22359	O3*	G	A1061	212.608	125.916	2.659	1.00	68.96	A16S
ATOM	22360	P	U	A1062	212.122	126.907	1.494	1.00	69.52	A16S
ATOM	22361	O1P	U	A1062	213.298	127.126	0.589	1.00	88.17	A16S
ATOM	22362	O2P	U	A1062	211.456	128.076	2.131	1.00	88.17	A16S
ATOM	22363	O5*	U	A1062	211.001	126.059	0.732	1.00	69.52	A16S
ATOM	22364	C5*	U	A1062	211.272	124.711	0.265	1.00	69.52	A16S
ATOM	22365	C4*	U	A1062	210.030	124.088	-0.337	1.00	69.52	A16S
ATOM	22366	O4*	U	A1062	209.119	123.635	0.693	1.00	69.52	A16S
ATOM	22367	C1*	U	A1062	207.785	123.815	0.251	1.00	69.52	A16S
ATOM	22368	N1	U	A1062	207.086	124.682	1.216	1.00	88.17	A16S
ATOM	22369	C6	U	A1062	207.763	125.631	1.938	1.00	88.17	A16S
ATOM	22370	C2	U	A1062	205.722	124.517	1.375	1.00	88.17	A16S
ATOM	22371	O2	U	A1062	205.074	123.698	0.757	1.00	88.17	A16S
ATOM	22372	N3	U	A1062	205.140	125.352	2.288	1.00	88.17	A16S
ATOM	22373	C4	U	A1062	205.761	126.312	3.048	1.00	88.17	A16S
ATOM	22374	O4	U	A1062	205.112	126.925	3.899	1.00	88.17	A16S
ATOM	22375	C5	U	A1062	207.164	126.429	2.821	1.00	88.17	A16S
ATOM	22376	C2*	U	A1062	207.823	124.391	-1.172	1.00	69.52	A16S
ATOM	22377	O2*	U	A1062	207.651	123.380	-2.144	1.00	69.52	A16S
ATOM	22378	C3*	U	A1062	209.213	125.002	-1.230	1.00	69.52	A16S
ATOM	22379	O3*	U	A1062	209.717	124.980	-2.551	1.00	69.52	A16S
ATOM	22380	P	C	A1063	209.872	126.353	-3.364	1.00	61.32	A16S
ATOM	22381	O1P	C	A1063	211.157	126.282	-4.120	1.00	85.04	A16S
ATOM	22382	O2P	C	A1063	209.633	127.485	-2.428	1.00	85.04	A16S
ATOM	22383	O5*	C	A1063	208.684	126.298	-4.422	1.00	61.32	A16S
ATOM	22384	C5*	C	A1063	208.556	125.179	-5.322	1.00	61.32	A16S
ATOM	22385	C4*	C	A1063	207.111	124.974	-5.695	1.00	61.32	A16S
ATOM	22386	O4*	C	A1063	206.379	124.519	-4.532	1.00	61.32	A16S
ATOM	22387	C1*	C	A1063	205.101	125.124	-4.512	1.00	61.32	A16S
ATOM	22388	N1	C	A1063	204.975	125.888	-3.250	1.00	85.04	A16S
ATOM	22389	C6	C	A1063	205.956	126.757	-2.854	1.00	85.04	A16S
ATOM	22390	C2	C	A1063	203.831	125.720	-2.469	1.00	85.04	A16S
ATOM	22391	O2	C	A1063	202.967	124.900	-2.830	1.00	85.04	A16S
ATOM	22392	N3	C	A1063	203.696	126.449	-1.334	1.00	85.04	A16S
ATOM	22393	C4	C	A1063	204.656	127.297	-0.965	1.00	85.04	A16S
ATOM	22394	N4	C	A1063	204.482	127.988	0.157	1.00	85.04	A16S
ATOM	22395	C5	C	A1063	205.836	127.473	-1.730	1.00	85.04	A16S
ATOM	22396	C2*	C	A1063	204.957	125.981	-5.779	1.00	61.32	A16S
ATOM	22397	O2*	C	A1063	204.287	125.288	-6.806	1.00	61.32	A16S
ATOM	22398	C3*	C	A1063	206.402	126.236	-6.159	1.00	61.32	A16S
ATOM	22399	O3*	C	A1063	206.523	126.395	-7.560	1.00	61.32	A16S
ATOM	22400	P	G	A1064	206.220	127.818	-8.220	1.00	63.30	A16S



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ATOM	22401	O1P	G	A1064	204.745	127.999	-8.178	1.00	96.38	A16S
ATOM	22402	O2P	G	A1064	206.936	127.900	-9.520	1.00	96.38	A16S
ATOM	22403	O5*	G	A1064	206.923	128.824	-7.204	1.00	63.30	A16S
ATOM	22404	C5*	G	A1064	207.219	130.209	-7.546	1.00	63.30	A16S
ATOM	22405	C4*	G	A1064	207.461	131.000	-6.272	1.00	63.30	A16S
ATOM	22406	O4*	G	A1064	206.190	131.159	-5.582	1.00	63.30	A16S
ATOM	22407	C1*	G	A1064	206.272	130.553	-4.316	1.00	63.30	A16S
ATOM	22408	N9	G	A1064	204.973	129.989	-3.968	1.00	96.38	A16S
ATOM	22409	C4	G	A1064	204.279	130.269	-2.826	1.00	96.38	A16S
ATOM	22410	N3	G	A1064	204.671	131.121	-1.864	1.00	96.38	A16S
ATOM	22411	C2	G	A1064	203.813	131.171	-0.877	1.00	96.38	A16S
ATOM	22412	N2	G	A1064	204.059	131.967	0.148	1.00	96.38	A16S
ATOM	22413	N1	G	A1064	202.653	130.444	-0.830	1.00	96.38	A16S
ATOM	22414	C6	G	A1064	202.226	129.557	-1.812	1.00	96.38	A16S
ATOM	22415	O6	G	A1064	201.159	128.944	-1.671	1.00	96.38	A16S
ATOM	22416	C5	G	A1064	203.145	129.495	-2.884	1.00	96.38	A16S
ATOM	22417	N7	G	A1064	203.115	128.754	-4.054	1.00	96.38	A16S
ATOM	22418	C8	G	A1064	204.219	129.083	-4.670	1.00	96.38	A16S
ATOM	22419	C2*	G	A1064	207.427	129.553	-4.382	1.00	63.30	A16S
ATOM	22420	O2*	G	A1064	207.968	129.298	-3.106	1.00	63.30	A16S
ATOM	22421	C3*	G	A1064	208.403	130.293	-5.289	1.00	63.30	A16S
ATOM	22422	O3*	G	A1064	209.102	131.222	-4.448	1.00	63.30	A16S
ATOM	22423	P	U	A1065	210.480	131.903	-4.931	1.00	86.02	A16S
ATOM	22424	O1P	U	A1065	210.886	131.375	-6.257	1.00	91.58	A16S
ATOM	22425	O2P	U	A1065	211.439	131.867	-3.787	1.00	91.58	A16S
ATOM	22426	O5*	U	A1065	210.038	133.405	-5.178	1.00	86.02	A16S
ATOM	22427	C5*	U	A1065	208.770	133.666	-5.771	1.00	86.02	A16S
ATOM	22428	C4*	U	A1065	208.351	135.082	-5.528	1.00	86.02	A16S
ATOM	22429	O4*	U	A1065	207.938	135.357	-4.180	1.00	86.02	A16S
ATOM	22430	C1*	U	A1065	207.751	136.743	-4.128	1.00	86.02	A16S
ATOM	22431	N1	U	A1065	207.572	137.191	-2.741	1.00	91.58	A16S
ATOM	22432	C6	U	A1065	208.230	136.603	-1.688	1.00	91.58	A16S
ATOM	22433	C2	U	A1065	206.694	138.253	-2.536	1.00	91.58	A16S
ATOM	22434	O2	U	A1065	206.094	138.813	-3.448	1.00	91.58	A16S
ATOM	22435	N3	U	A1065	206.549	138.639	-1.229	1.00	91.58	A16S
ATOM	22436	C4	U	A1065	207.181	138.099	-0.133	1.00	91.58	A16S
ATOM	22437	O4	U	A1065	206.982	138.592	0.974	1.00	91.58	A16S
ATOM	22438	C5	U	A1065	208.070	137.011	-0.424	1.00	91.58	A16S
ATOM	22439	C2*	U	A1065	208.925	137.345	-4.906	1.00	86.02	A16S
ATOM	22440	O2*	U	A1065	208.500	138.513	-5.587	1.00	86.02	A16S
ATOM	22441	C3*	U	A1065	209.385	136.158	-5.784	1.00	86.02	A16S
ATOM	22442	O3*	U	A1065	209.537	136.359	-7.195	1.00	86.02	A16S
ATOM	22443	P	C	A1066	208.249	136.635	-8.129	1.00	77.22	A16S
ATOM	22444	O1P	C	A1066	208.772	136.600	-9.528	1.00	103.47	A16S
ATOM	22445	O2P	C	A1066	207.472	137.833	-7.666	1.00	103.47	A16S
ATOM	22446	O5*	C	A1066	207.340	135.340	-7.933	1.00	77.22	A16S
ATOM	22447	C5*	C	A1066	207.423	134.249	-8.860	1.00	77.22	A16S
ATOM	22448	C4*	C	A1066	206.069	133.614	-9.044	1.00	77.22	A16S
ATOM	22449	O4*	C	A1066	205.741	132.848	-7.871	1.00	77.22	A16S
ATOM	22450	C1*	C	A1066	204.341	132.819	-7.722	1.00	77.22	A16S
ATOM	22451	N1	C	A1066	204.004	133.062	-6.313	1.00	103.47	A16S
ATOM	22452	C6	C	A1066	204.907	133.632	-5.461	1.00	103.47	A16S
ATOM	22453	C2	C	A1066	202.752	132.671	-5.850	1.00	103.47	A16S
ATOM	22454	O2	C	A1066	201.934	132.206	-6.653	1.00	103.47	A16S
ATOM	22455	N3	C	A1066	202.459	132.816	-4.544	1.00	103.47	A16S
ATOM	22456	C4	C	A1066	203.357	133.345	-3.716	1.00	103.47	A16S
ATOM	22457	N4	C	A1066	203.032	133.451	-2.434	1.00	103.47	A16S
ATOM	22458	C5	C	A1066	204.628	133.785	-4.167	1.00	103.47	A16S
ATOM	22459	C2*	C	A1066	203.702	133.726	-8.778	1.00	77.22	A16S
ATOM	22460	O2*	C	A1066	203.198	132.898	-9.798	1.00	77.22	A16S
ATOM	22461	C3*	C	A1066	204.887	134.549	-9.273	1.00	77.22	A16S
ATOM	22462	O3*	C	A1066	204.760	134.791	-10.677	1.00	77.22	A16S
ATOM	22463	P	A	A1067	203.983	136.097	-11.219	1.00	78.42	A16S
ATOM	22464	O1P	A	A1067	203.779	135.923	-12.683	1.00	75.77	A16S
ATOM	22465	O2P	A	A1067	204.687	137.303	-10.721	1.00	75.77	A16S
ATOM	22466	O5*	A	A1067	202.536	136.013	-10.554	1.00	78.42	A16S
ATOM	22467	C5*	A	A1067	201.602	134.981	-10.948	1.00	78.42	A16S
ATOM	22468	C4*	A	A1067	200.173	135.423	-10.703	1.00	78.42	A16S
ATOM	22469	O4*	A	A1067	199.890	135.423	-9.277	1.00	78.42	A16S
ATOM	22470	C1*	A	A1067	199.702	136.742	-8.814	1.00	78.42	A16S
ATOM	22471	N9	A	A1067	200.687	136.948	-7.756	1.00	75.77	A16S
ATOM	22472	C4	A	A1067	200.501	136.792	-6.403	1.00	75.77	A16S
ATOM	22473	N3	A	A1067	199.366	136.457	-5.764	1.00	75.77	A16S
ATOM	22474	C2	A	A1067	199.570	136.380	-4.447	1.00	75.77	A16S
ATOM	22475	N1	A	A1067	200.695	136.582	-3.748	1.00	75.77	A16S
ATOM	22476	C6	A	A1067	201.818	136.915	-4.415	1.00	75.77	A16S
ATOM	22477	N6	A	A1067	202.937	137.105	-3.714	1.00	75.77	A16S



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ATOM	22478	C5	A	A1067	201.734	137.035	-5.821	1.00	75.77	A16S
ATOM	22479	N7	A	A1067	202.674	137.359	-6.787	1.00	75.77	A16S
ATOM	22480	C8	A	A1067	202.002	137.302	-7.909	1.00	75.77	A16S
ATOM	22481	C2*	A	A1067	199.931	137.700	-9.983	1.00	78.42	A16S
ATOM	22482	O2*	A	A1067	199.070	138.804	-9.928	1.00	78.42	A16S
ATOM	22483	C3*	A	A1067	199.819	136.806	-11.222	1.00	78.42	A16S
ATOM	22484	O3*	A	A1067	198.647	136.800	-12.077	1.00	78.42	A16S
ATOM	22485	P	G	A1068	197.164	136.560	-11.480	1.00	61.31	A16S
ATOM	22486	O1P	G	A1068	196.194	136.760	-12.595	1.00	77.85	A16S
ATOM	22487	O2P	G	A1068	197.020	137.352	-10.250	1.00	77.85	A16S
ATOM	22488	O5*	G	A1068	197.120	135.024	-11.058	1.00	61.31	A16S
ATOM	22489	C5*	G	A1068	195.988	134.501	-10.343	1.00	61.31	A16S
ATOM	22490	C4*	G	A1068	196.426	133.929	-9.018	1.00	61.31	A16S
ATOM	22491	O4*	G	A1068	197.219	134.922	-8.328	1.00	61.31	A16S
ATOM	22492	C1*	G	A1068	196.922	134.895	-6.939	1.00	61.31	A16S
ATOM	22493	N9	G	A1068	196.363	136.196	-6.569	1.00	77.85	A16S
ATOM	22494	C4	G	A1068	195.899	136.573	-5.332	1.00	77.85	A16S
ATOM	22495	N3	G	A1068	195.852	135.796	-4.229	1.00	77.85	A16S
ATOM	22496	C2	G	A1068	195.348	136.450	-3.195	1.00	77.85	A16S
ATOM	22497	N2	G	A1068	195.205	135.834	-2.013	1.00	77.85	A16S
ATOM	22498	N1	G	A1068	194.941	137.759	-3.242	1.00	77.85	A16S
ATOM	22499	C6	G	A1068	194.993	138.572	-4.368	1.00	77.85	A16S
ATOM	22500	O6	G	A1068	194.621	139.741	-4.301	1.00	77.85	A16S
ATOM	22501	C5	G	A1068	195.505	137.889	-5.477	1.00	77.85	A16S
ATOM	22502	N7	G	A1068	195.698	138.325	-6.776	1.00	77.85	A16S
ATOM	22503	C8	G	A1068	196.207	137.292	-7.388	1.00	77.85	A16S
ATOM	22504	C2*	G	A1068	195.964	133.732	-6.684	1.00	61.31	A16S
ATOM	22505	O2*	G	A1068	196.702	132.589	-6.323	1.00	61.31	A16S
ATOM	22506	C3*	G	A1068	195.297	133.583	-8.047	1.00	61.31	A16S
ATOM	22507	O3*	G	A1068	194.762	132.265	-8.249	1.00	61.31	A16S
ATOM	22508	P	C	A1069	193.165	132.035	-8.207	1.00	88.85	A16S
ATOM	22509	O1P	C	A1069	192.891	130.689	-8.770	1.00	67.64	A16S
ATOM	22510	O2P	C	A1069	192.507	133.241	-8.826	1.00	67.64	A16S
ATOM	22511	O5*	C	A1069	192.835	131.986	-6.645	1.00	88.85	A16S
ATOM	22512	C5*	C	A1069	193.420	130.983	-5.785	1.00	88.85	A16S
ATOM	22513	C4*	C	A1069	193.000	131.206	-4.340	1.00	88.85	A16S
ATOM	22514	O4*	C	A1069	193.616	132.413	-3.813	1.00	88.85	A16S
ATOM	22515	C1*	C	A1069	192.719	133.075	-2.930	1.00	88.85	A16S
ATOM	22516	N1	C	A1069	192.415	134.415	-3.485	1.00	67.64	A16S
ATOM	22517	C6	C	A1069	192.578	134.675	-4.817	1.00	67.64	A16S
ATOM	22518	C2	C	A1069	191.964	135.423	-2.627	1.00	67.64	A16S
ATOM	22519	O2	C	A1069	191.792	135.154	-1.419	1.00	67.64	A16S
ATOM	22520	N3	C	A1069	191.717	136.663	-3.134	1.00	67.64	A16S
ATOM	22521	C4	C	A1069	191.886	136.898	-4.438	1.00	67.64	A16S
ATOM	22522	N4	C	A1069	191.624	138.125	-4.908	1.00	67.64	A16S
ATOM	22523	C5	C	A1069	192.328	135.888	-5.328	1.00	67.64	A16S
ATOM	22524	C2*	C	A1069	191.487	132.188	-2.783	1.00	88.85	A16S
ATOM	22525	O2*	C	A1069	191.668	131.356	-1.658	1.00	88.85	A16S
ATOM	22526	C3*	C	A1069	191.515	131.408	-4.093	1.00	88.85	A16S
ATOM	22527	O3*	C	A1069	190.809	130.183	-4.005	1.00	88.85	A16S
ATOM	22528	P	U	A1070	189.223	130.186	-4.220	1.00	85.24	A16S
ATOM	22529	O1P	U	A1070	188.740	128.792	-4.099	1.00	72.31	A16S
ATOM	22530	O2P	U	A1070	188.913	130.984	-5.441	1.00	72.31	A16S
ATOM	22531	O5*	U	A1070	188.706	130.994	-2.958	1.00	85.24	A16S
ATOM	22532	C5*	U	A1070	187.638	131.928	-3.082	1.00	85.24	A16S
ATOM	22533	C4*	U	A1070	187.558	132.771	-1.846	1.00	85.24	A16S
ATOM	22534	O4*	U	A1070	188.587	133.791	-1.883	1.00	85.24	A16S
ATOM	22535	C1*	U	A1070	188.093	134.983	-1.305	1.00	85.24	A16S
ATOM	22536	N1	U	A1070	188.081	136.023	-2.345	1.00	72.31	A16S
ATOM	22537	C6	U	A1070	188.366	135.721	-3.652	1.00	72.31	A16S
ATOM	22538	C2	U	A1070	187.783	137.325	-1.974	1.00	72.31	A16S
ATOM	22539	O2	U	A1070	187.505	137.649	-0.833	1.00	72.31	A16S
ATOM	22540	N3	U	A1070	187.824	138.242	-2.992	1.00	72.31	A16S
ATOM	22541	C4	U	A1070	188.129	138.005	-4.309	1.00	72.31	A16S
ATOM	22542	O4	U	A1070	188.280	138.957	-5.070	1.00	72.31	A16S
ATOM	22543	C5	U	A1070	188.399	136.642	-4.619	1.00	72.31	A16S
ATOM	22544	C2*	U	A1070	186.702	134.671	-0.759	1.00	85.24	A16S
ATOM	22545	O2*	U	A1070	186.851	134.192	0.565	1.00	85.24	A16S
ATOM	22546	C3*	U	A1070	186.268	133.545	-1.676	1.00	85.24	A16S
ATOM	22547	O3*	U	A1070	185.291	132.709	-1.080	1.00	85.24	A16S
ATOM	22548	P	C	A1071	183.730	133.023	-1.301	1.00	80.22	A16S
ATOM	22549	O1P	C	A1071	183.012	131.822	-0.774	1.00	69.46	A16S
ATOM	22550	O2P	C	A1071	183.450	133.503	-2.694	1.00	69.46	A16S
ATOM	22551	O5*	C	A1071	183.498	134.250	-0.316	1.00	80.22	A16S
ATOM	22552	C5*	C	A1071	183.877	134.165	1.072	1.00	80.22	A16S
ATOM	22553	C4*	C	A1071	183.713	135.512	1.733	1.00	80.22	A16S
ATOM	22554	O4*	C	A1071	184.677	136.441	1.184	1.00	80.22	A16S



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ATOM	22555	C1*	C	A1071	184.096	137.724	1.073	1.00	80.22	A16S
ATOM	22556	N1	C	A1071	184.091	138.117	-0.341	1.00	69.46	A16S
ATOM	22557	C6	C	A1071	184.453	137.238	-1.326	1.00	69.46	A16S
ATOM	22558	C2	C	A1071	183.707	139.423	-0.668	1.00	69.46	A16S
ATOM	22559	O2	C	A1071	183.363	140.193	0.248	1.00	69.46	A16S
ATOM	22560	N3	C	A1071	183.710	139.813	-1.967	1.00	69.46	A16S
ATOM	22561	C4	C	A1071	184.069	138.949	-2.920	1.00	69.46	A16S
ATOM	22562	N4	C	A1071	184.052	139.373	-4.181	1.00	69.46	A16S
ATOM	22563	C5	C	A1071	184.458	137.608	-2.616	1.00	69.46	A16S
ATOM	22564	C2*	C	A1071	182.683	137.655	1.643	1.00	80.22	A16S
ATOM	22565	O2*	C	A1071	182.698	138.101	2.981	1.00	80.22	A16S
ATOM	22566	C3*	C	A1071	182.368	136.175	1.491	1.00	80.22	A16S
ATOM	22567	O3*	C	A1071	181.384	135.717	2.403	1.00	80.22	A16S
ATOM	22568	P	G	A1072	179.833	135.815	2.008	1.00	75.35	A16S
ATOM	22569	O1P	G	A1072	179.133	135.204	3.180	1.00	70.07	A16S
ATOM	22570	O2P	G	A1072	179.582	135.285	0.643	1.00	70.07	A16S
ATOM	22571	O5*	G	A1072	179.563	137.384	1.952	1.00	75.35	A16S
ATOM	22572	C5*	G	A1072	179.571	138.171	3.154	1.00	75.35	A16S
ATOM	22573	C4*	G	A1072	179.041	139.556	2.878	1.00	75.35	A16S
ATOM	22574	O4*	G	A1072	180.018	140.335	2.139	1.00	75.35	A16S
ATOM	22575	C1*	G	A1072	179.346	141.238	1.282	1.00	75.35	A16S
ATOM	22576	N9	G	A1072	179.763	140.983	-0.094	1.00	70.07	A16S
ATOM	22577	C4	G	A1072	179.821	141.913	-1.111	1.00	70.07	A16S
ATOM	22578	N3	G	A1072	179.518	143.224	-1.007	1.00	70.07	A16S
ATOM	22579	C2	G	A1072	179.649	143.859	-2.159	1.00	70.07	A16S
ATOM	22580	N2	G	A1072	179.392	145.171	-2.224	1.00	70.07	A16S
ATOM	22581	N1	G	A1072	180.040	143.255	-3.323	1.00	70.07	A16S
ATOM	22582	C6	G	A1072	180.360	141.910	-3.456	1.00	70.07	A16S
ATOM	22583	O6	G	A1072	180.700	141.472	-4.549	1.00	70.07	A16S
ATOM	22584	C5	G	A1072	180.231	141.214	-2.224	1.00	70.07	A16S
ATOM	22585	N7	G	A1072	180.441	139.873	-1.916	1.00	70.07	A16S
ATOM	22586	C8	G	A1072	180.154	139.782	-0.645	1.00	70.07	A16S
ATOM	22587	C2*	G	A1072	177.841	141.044	1.482	1.00	75.35	A16S
ATOM	22588	O2*	G	A1072	177.389	141.986	2.424	1.00	75.35	A16S
ATOM	22589	C3*	G	A1072	177.772	139.633	2.046	1.00	75.35	A16S
ATOM	22590	O3*	G	A1072	176.608	139.435	2.841	1.00	75.35	A16S
ATOM	22591	P	U	A1073	175.289	138.784	2.182	1.00	61.78	A16S
ATOM	22592	O1P	U	A1073	174.289	138.616	3.277	1.00	83.72	A16S
ATOM	22593	O2P	U	A1073	175.674	137.601	1.359	1.00	83.72	A16S
ATOM	22594	O5*	U	A1073	174.766	139.908	1.179	1.00	61.78	A16S
ATOM	22595	C5*	U	A1073	173.993	141.002	1.665	1.00	61.78	A16S
ATOM	22596	C4*	U	A1073	173.840	142.039	0.597	1.00	61.78	A16S
ATOM	22597	O4*	U	A1073	175.160	142.455	0.164	1.00	61.78	A16S
ATOM	22598	C1*	U	A1073	175.133	142.763	-1.222	1.00	61.78	A16S
ATOM	22599	N1	U	A1073	176.042	141.848	-1.926	1.00	83.72	A16S
ATOM	22600	C6	U	A1073	176.322	140.597	-1.425	1.00	83.72	A16S
ATOM	22601	C2	U	A1073	176.562	142.266	-3.137	1.00	83.72	A16S
ATOM	22602	O2	U	A1073	176.412	143.395	-3.565	1.00	83.72	A16S
ATOM	22603	N3	U	A1073	177.275	141.312	-3.820	1.00	83.72	A16S
ATOM	22604	C4	U	A1073	177.542	140.014	-3.406	1.00	83.72	A16S
ATOM	22605	O4	U	A1073	178.065	139.210	-4.198	1.00	83.72	A16S
ATOM	22606	C5	U	A1073	177.035	139.694	-2.099	1.00	83.72	A16S
ATOM	22607	C2*	U	A1073	173.698	142.553	-1.716	1.00	61.78	A16S
ATOM	22608	O2*	U	A1073	173.028	143.792	-1.774	1.00	61.78	A16S
ATOM	22609	C3*	U	A1073	173.154	141.577	-0.675	1.00	61.78	A16S
ATOM	22610	O3*	U	A1073	171.739	141.583	-0.564	1.00	61.78	A16S
ATOM	22611	P	G	A1074	170.873	140.523	-1.411	1.00	69.83	A16S
ATOM	22612	O1P	G	A1074	169.444	140.675	-1.031	1.00	72.53	A16S
ATOM	22613	O2P	G	A1074	171.521	139.195	-1.278	1.00	72.53	A16S
ATOM	22614	O5*	G	A1074	171.020	141.068	-2.900	1.00	69.83	A16S
ATOM	22615	C5*	G	A1074	170.661	142.422	-3.183	1.00	69.83	A16S
ATOM	22616	C4*	G	A1074	171.119	142.833	-4.552	1.00	69.83	A16S
ATOM	22617	O4*	G	A1074	172.561	142.919	-4.607	1.00	69.83	A16S
ATOM	22618	C1*	G	A1074	173.009	142.593	-5.921	1.00	69.83	A16S
ATOM	22619	N9	G	A1074	173.868	141.415	-5.834	1.00	72.53	A16S
ATOM	22620	C4	G	A1074	174.646	140.891	-6.835	1.00	72.53	A16S
ATOM	22621	N3	G	A1074	174.756	141.374	-8.089	1.00	72.53	A16S
ATOM	22622	C2	G	A1074	175.591	140.658	-8.817	1.00	72.53	A16S
ATOM	22623	N2	G	A1074	175.844	141.011	-10.087	1.00	72.53	A16S
ATOM	22624	N1	G	A1074	176.250	139.545	-8.350	1.00	72.53	A16S
ATOM	22625	C6	G	A1074	176.141	139.027	-7.060	1.00	72.53	A16S
ATOM	22626	O6	G	A1074	176.773	138.000	-6.731	1.00	72.53	A16S
ATOM	22627	C5	G	A1074	175.267	139.794	-6.274	1.00	72.53	A16S
ATOM	22628	N7	G	A1074	174.886	139.633	-4.954	1.00	72.53	A16S
ATOM	22629	C8	G	A1074	174.058	140.614	-4.736	1.00	72.53	A16S
ATOM	22630	C2*	G	A1074	171.771	142.316	-6.769	1.00	69.83	A16S
ATOM	22631	O2*	G	A1074	171.409	143.496	-7.470	1.00	69.83	A16S



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ATOM	22632	C3*	G	A1074	170.768	141.911	-5.696	1.00	69.83	A16S
ATOM	22633	O3*	G	A1074	169.439	142.067	-6.111	1.00	69.83	A16S
ATOM	22634	P	C	A1075	168.630	140.774	-6.572	1.00	68.29	A16S
ATOM	22635	O1P	C	A1075	167.222	141.164	-6.903	1.00	66.49	A16S
ATOM	22636	O2P	C	A1075	168.904	139.718	-5.544	1.00	66.49	A16S
ATOM	22637	O5*	C	A1075	169.342	140.396	-7.936	1.00	68.29	A16S
ATOM	22638	C5*	C	A1075	169.272	141.303	-9.039	1.00	68.29	A16S
ATOM	22639	C4*	C	A1075	170.079	140.782	-10.194	1.00	68.29	A16S
ATOM	22640	O4*	C	A1075	171.489	140.847	-9.865	1.00	68.29	A16S
ATOM	22641	C1*	C	A1075	172.167	139.779	-10.498	1.00	68.29	A16S
ATOM	22642	N1	C	A1075	172.731	138.911	-9.456	1.00	66.49	A16S
ATOM	22643	C6	C	A1075	172.186	138.862	-8.206	1.00	66.49	A16S
ATOM	22644	C2	C	A1075	173.812	138.104	-9.781	1.00	66.49	A16S
ATOM	22645	O2	C	A1075	174.325	138.221	-10.905	1.00	66.49	A16S
ATOM	22646	N3	C	A1075	174.279	137.223	-8.870	1.00	66.49	A16S
ATOM	22647	C4	C	A1075	173.716	137.153	-7.669	1.00	66.49	A16S
ATOM	22648	N4	C	A1075	174.187	136.253	-6.812	1.00	66.49	A16S
ATOM	22649	C5	C	A1075	172.642	138.003	-7.293	1.00	66.49	A16S
ATOM	22650	C2*	C	A1075	171.137	139.011	-11.333	1.00	68.29	A16S
ATOM	22651	O2*	C	A1075	171.097	139.512	-12.661	1.00	68.29	A16S
ATOM	22652	C3*	C	A1075	169.852	139.333	-10.593	1.00	68.29	A16S
ATOM	22653	O3*	C	A1075	168.722	139.157	-11.424	1.00	68.29	A16S
ATOM	22654	P	C	A1076	167.945	137.752	-11.404	1.00	65.92	A16S
ATOM	22655	O1P	C	A1076	166.703	137.934	-12.198	1.00	64.59	A16S
ATOM	22656	O2P	C	A1076	167.862	137.276	-10.002	1.00	64.59	A16S
ATOM	22657	O5*	C	A1076	168.920	136.741	-12.162	1.00	65.92	A16S
ATOM	22658	C5*	C	A1076	169.303	136.966	-13.538	1.00	65.92	A16S
ATOM	22659	C4*	C	A1076	170.168	135.829	-14.042	1.00	65.92	A16S
ATOM	22660	O4*	C	A1076	171.501	135.896	-13.474	1.00	65.92	A16S
ATOM	22661	C1*	C	A1076	171.982	134.587	-13.263	1.00	65.92	A16S
ATOM	22662	N1	C	A1076	172.178	134.411	-11.829	1.00	64.59	A16S
ATOM	22663	C6	C	A1076	171.547	135.219	-10.935	1.00	64.59	A16S
ATOM	22664	C2	C	A1076	173.014	133.401	-11.389	1.00	64.59	A16S
ATOM	22665	O2	C	A1076	173.576	132.693	-12.221	1.00	64.59	A16S
ATOM	22666	N3	C	A1076	173.198	133.219	-10.067	1.00	64.59	A16S
ATOM	22667	C4	C	A1076	172.582	134.017	-9.199	1.00	64.59	A16S
ATOM	22668	N4	C	A1076	172.800	133.819	-7.900	1.00	64.59	A16S
ATOM	22669	C5	C	A1076	171.719	135.059	-9.622	1.00	64.59	A16S
ATOM	22670	C2*	C	A1076	170.932	133.606	-13.785	1.00	65.92	A16S
ATOM	22671	O2*	C	A1076	171.212	133.276	-15.125	1.00	65.92	A16S
ATOM	22672	C3*	C	A1076	169.670	134.437	-13.706	1.00	65.92	A16S
ATOM	22673	O3*	C	A1076	168.722	133.993	-14.651	1.00	65.92	A16S
ATOM	22674	P	G	A1077	167.470	133.123	-14.154	1.00	64.88	A16S
ATOM	22675	O1P	G	A1077	166.562	132.965	-15.333	1.00	74.84	A16S
ATOM	22676	O2P	G	A1077	166.955	133.729	-12.892	1.00	74.84	A16S
ATOM	22677	O5*	G	A1077	168.110	131.711	-13.783	1.00	64.88	A16S
ATOM	22678	C5*	G	A1077	168.674	130.879	-14.807	1.00	64.88	A16S
ATOM	22679	C4*	G	A1077	169.404	129.703	-14.203	1.00	64.88	A16S
ATOM	22680	O4*	G	A1077	170.585	130.135	-13.480	1.00	64.88	A16S
ATOM	22681	C1*	G	A1077	170.913	129.164	-12.500	1.00	64.88	A16S
ATOM	22682	N9	G	A1077	171.033	129.830	-11.211	1.00	74.84	A16S
ATOM	22683	C4	G	A1077	171.686	129.356	-10.095	1.00	74.84	A16S
ATOM	22684	N3	G	A1077	172.421	128.226	-10.019	1.00	74.84	A16S
ATOM	22685	C2	G	A1077	172.889	128.023	-8.793	1.00	74.84	A16S
ATOM	22686	N2	G	A1077	173.667	126.961	-8.526	1.00	74.84	A16S
ATOM	22687	N1	G	A1077	172.637	128.845	-7.733	1.00	74.84	A16S
ATOM	22688	C6	G	A1077	171.879	130.005	-7.786	1.00	74.84	A16S
ATOM	22689	O6	G	A1077	171.695	130.664	-6.757	1.00	74.84	A16S
ATOM	22690	C5	G	A1077	171.396	130.256	-9.097	1.00	74.84	A16S
ATOM	22691	N7	G	A1077	170.637	131.309	-9.589	1.00	74.84	A16S
ATOM	22692	C8	G	A1077	170.459	131.021	-10.847	1.00	74.84	A16S
ATOM	22693	C2*	G	A1077	169.782	128.128	-12.479	1.00	64.88	A16S
ATOM	22694	O2*	G	A1077	170.152	126.967	-13.188	1.00	64.88	A16S
ATOM	22695	C3*	G	A1077	168.656	128.867	-13.187	1.00	64.88	A16S
ATOM	22696	O3*	G	A1077	167.757	127.965	-13.806	1.00	64.88	A16S
ATOM	22697	P	U	A1078	166.254	127.848	-13.242	1.00	63.37	A16S
ATOM	22698	O1P	U	A1078	165.527	126.762	-13.958	1.00	70.96	A16S
ATOM	22699	O2P	U	A1078	165.683	129.230	-13.233	1.00	70.96	A16S
ATOM	22700	O5*	U	A1078	166.478	127.359	-11.747	1.00	63.37	A16S
ATOM	22701	C5*	U	A1078	165.429	127.447	-10.805	1.00	63.37	A16S
ATOM	22702	C4*	U	A1078	165.455	126.257	-9.903	1.00	63.37	A16S
ATOM	22703	O4*	U	A1078	165.162	125.060	-10.656	1.00	63.37	A16S
ATOM	22704	C1*	U	A1078	165.825	123.966	-10.062	1.00	63.37	A16S
ATOM	22705	N1	U	A1078	166.644	123.284	-11.072	1.00	70.96	A16S
ATOM	22706	C6	U	A1078	167.017	123.892	-12.241	1.00	70.96	A16S
ATOM	22707	C2	U	A1078	167.052	122.006	-10.781	1.00	70.96	A16S
ATOM	22708	O2	U	A1078	166.694	121.418	-9.778	1.00	70.96	A16S



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ATOM	22709	N3	U	A1078	167.890	121.437	-11.706	1.00	70.96	A16S
ATOM	22710	C4	U	A1078	168.332	122.005	-12.875	1.00	70.96	A16S
ATOM	22711	O4	U	A1078	169.171	121.418	-13.549	1.00	70.96	A16S
ATOM	22712	C5	U	A1078	167.824	123.311	-13.128	1.00	70.96	A16S
ATOM	22713	C2*	U	A1078	166.658	124.498	-8.893	1.00	63.37	A16S
ATOM	22714	O2*	U	A1078	165.911	124.277	-7.719	1.00	63.37	A16S
ATOM	22715	C3*	U	A1078	166.780	125.978	-9.231	1.00	63.37	A16S
ATOM	22716	O3*	U	A1078	166.860	126.774	-8.065	1.00	63.37	A16S
ATOM	22717	P	G	A1079	168.238	127.504	-7.683	1.00	66.38	A16S
ATOM	22718	O1P	G	A1079	168.078	128.096	-6.327	1.00	63.90	A16S
ATOM	22719	O2P	G	A1079	168.636	128.391	-8.814	1.00	63.90	A16S
ATOM	22720	O5*	G	A1079	169.242	126.285	-7.483	1.00	66.38	A16S
ATOM	22721	C5*	G	A1079	168.968	125.286	-6.488	1.00	66.38	A16S
ATOM	22722	C4*	G	A1079	169.921	124.132	-6.633	1.00	66.38	A16S
ATOM	22723	O4*	G	A1079	169.682	123.442	-7.887	1.00	66.38	A16S
ATOM	22724	C1*	G	A1079	170.917	122.998	-8.433	1.00	66.38	A16S
ATOM	22725	N9	G	A1079	171.060	123.577	-9.769	1.00	63.90	A16S
ATOM	22726	C4	G	A1079	171.539	122.951	-10.895	1.00	63.90	A16S
ATOM	22727	N3	G	A1079	172.053	121.708	-10.958	1.00	63.90	A16S
ATOM	22728	C2	G	A1079	172.372	121.364	-12.198	1.00	63.90	A16S
ATOM	22729	N2	G	A1079	172.912	120.170	-12.447	1.00	63.90	A16S
ATOM	22730	N1	G	A1079	172.189	122.169	-13.287	1.00	63.90	A16S
ATOM	22731	C6	G	A1079	171.664	123.453	-13.248	1.00	63.90	A16S
ATOM	22732	O6	G	A1079	171.523	124.092	-14.300	1.00	63.90	A16S
ATOM	22733	C5	G	A1079	171.338	123.846	-11.921	1.00	63.90	A16S
ATOM	22734	N7	G	A1079	170.814	125.034	-11.441	1.00	63.90	A16S
ATOM	22735	C8	G	A1079	170.678	124.835	-10.162	1.00	63.90	A16S
ATOM	22736	C2*	G	A1079	172.013	123.352	-7.428	1.00	66.38	A16S
ATOM	22737	O2*	G	A1079	172.152	122.248	-6.562	1.00	66.38	A16S
ATOM	22738	C3*	G	A1079	171.387	124.516	-6.676	1.00	66.38	A16S
ATOM	22739	O3*	G	A1079	171.883	124.599	-5.362	1.00	66.38	A16S
ATOM	22740	P	A	A1080	173.227	125.422	-5.074	1.00	68.05	A16S
ATOM	22741	O1P	A	A1080	173.417	125.419	-3.589	1.00	54.72	A16S
ATOM	22742	O2P	A	A1080	173.187	126.712	-5.819	1.00	54.72	A16S
ATOM	22743	O5*	A	A1080	174.380	124.499	-5.668	1.00	68.05	A16S
ATOM	22744	C5*	A	A1080	174.786	123.306	-4.963	1.00	68.05	A16S
ATOM	22745	C4*	A	A1080	175.890	122.589	-5.706	1.00	68.05	A16S
ATOM	22746	O4*	A	A1080	175.397	122.035	-6.949	1.00	68.05	A16S
ATOM	22747	C1*	A	A1080	176.420	122.071	-7.918	1.00	68.05	A16S
ATOM	22748	N9	A	A1080	175.958	122.892	-9.031	1.00	54.72	A16S
ATOM	22749	C4	A	A1080	175.806	122.471	-10.324	1.00	54.72	A16S
ATOM	22750	N3	A	A1080	176.058	121.251	-10.804	1.00	54.72	A16S
ATOM	22751	C2	A	A1080	175.790	121.202	-12.094	1.00	54.72	A16S
ATOM	22752	N1	A	A1080	175.327	122.160	-12.902	1.00	54.72	A16S
ATOM	22753	C6	A	A1080	175.079	123.378	-12.388	1.00	54.72	A16S
ATOM	22754	N6	A	A1080	174.599	124.331	-13.199	1.00	54.72	A16S
ATOM	22755	C5	A	A1080	175.335	123.564	-11.026	1.00	54.72	A16S
ATOM	22756	N7	A	A1080	175.207	124.666	-10.193	1.00	54.72	A16S
ATOM	22757	C8	A	A1080	175.588	124.217	-9.020	1.00	54.72	A16S
ATOM	22758	C2*	A	A1080	177.677	122.629	-7.255	1.00	68.05	A16S
ATOM	22759	O2*	A	A1080	178.435	121.523	-6.816	1.00	68.05	A16S
ATOM	22760	C3*	A	A1080	177.094	123.427	-6.096	1.00	68.05	A16S
ATOM	22761	O3*	A	A1080	177.993	123.490	-4.998	1.00	68.05	A16S
ATOM	22762	P	G	A1081	178.904	124.793	-4.774	1.00	55.65	A16S
ATOM	22763	O1P	G	A1081	179.729	124.508	-3.568	1.00	71.58	A16S
ATOM	22764	O2P	G	A1081	178.066	126.021	-4.819	1.00	71.58	A16S
ATOM	22765	O5*	G	A1081	179.849	124.805	-6.050	1.00	55.65	A16S
ATOM	22766	C5*	G	A1081	180.187	126.031	-6.689	1.00	55.65	A16S
ATOM	22767	C4*	G	A1081	179.673	126.031	-8.093	1.00	55.65	A16S
ATOM	22768	O4*	G	A1081	178.231	125.883	-8.073	1.00	55.65	A16S
ATOM	22769	C1*	G	A1081	177.650	126.719	-9.070	1.00	55.65	A16S
ATOM	22770	N9	G	A1081	176.887	127.782	-8.413	1.00	71.58	A16S
ATOM	22771	C4	G	A1081	176.193	128.782	-9.048	1.00	71.58	A16S
ATOM	22772	N3	G	A1081	176.051	128.918	-10.377	1.00	71.58	A16S
ATOM	22773	C2	G	A1081	175.361	129.996	-10.684	1.00	71.58	A16S
ATOM	22774	N2	G	A1081	175.115	130.284	-11.955	1.00	71.58	A16S
ATOM	22775	N1	G	A1081	174.859	130.870	-9.769	1.00	71.58	A16S
ATOM	22776	C6	G	A1081	174.994	130.750	-8.399	1.00	71.58	A16S
ATOM	22777	O6	G	A1081	174.507	131.603	-7.662	1.00	71.58	A16S
ATOM	22778	C5	G	A1081	175.723	129.597	-8.047	1.00	71.58	A16S
ATOM	22779	N7	G	A1081	176.079	129.105	-6.801	1.00	71.58	A16S
ATOM	22780	C8	G	A1081	176.759	128.023	-7.064	1.00	71.58	A16S
ATOM	22781	C2*	G	A1081	178.800	127.362	-9.847	1.00	55.65	A16S
ATOM	22782	O2*	G	A1081	179.093	126.636	-11.025	1.00	55.65	A16S
ATOM	22783	C3*	G	A1081	179.900	127.346	-8.799	1.00	55.65	A16S
ATOM	22784	O3*	G	A1081	181.203	127.468	-9.315	1.00	55.65	A16S
ATOM	22785	P	G	A1082	181.963	128.882	-9.191	1.00	65.98	A16S



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ATOM	22786	O1P	G	A1082	183.392	128.636	-9.521	1.00	71.79	A16S
ATOM	22787	O2P	G	A1082	181.610	129.474	-7.877	1.00	71.79	A16S
ATOM	22788	O5*	G	A1082	181.304	129.776	-10.337	1.00	65.98	A16S
ATOM	22789	C5*	G	A1082	181.219	129.286	-11.685	1.00	65.98	A16S
ATOM	22790	C4*	G	A1082	180.292	130.146	-12.510	1.00	65.98	A16S
ATOM	22791	O4*	G	A1082	178.943	130.062	-11.983	1.00	65.98	A16S
ATOM	22792	C1*	G	A1082	178.287	131.307	-12.160	1.00	65.98	A16S
ATOM	22793	N9	G	A1082	177.895	131.830	-10.854	1.00	71.79	A16S
ATOM	22794	C4	G	A1082	177.118	132.939	-10.633	1.00	71.79	A16S
ATOM	22795	N3	G	A1082	176.569	133.718	-11.583	1.00	71.79	A16S
ATOM	22796	C2	G	A1082	175.889	134.719	-11.064	1.00	71.79	A16S
ATOM	22797	N2	G	A1082	175.266	135.583	-11.869	1.00	71.79	A16S
ATOM	22798	N1	G	A1082	175.764	134.946	-9.720	1.00	71.79	A16S
ATOM	22799	C6	G	A1082	176.324	134.161	-8.722	1.00	71.79	A16S
ATOM	22800	O6	G	A1082	176.159	134.463	-7.531	1.00	71.79	A16S
ATOM	22801	C5	G	A1082	177.049	133.073	-9.266	1.00	71.79	A16S
ATOM	22802	N7	G	A1082	177.754	132.057	-8.635	1.00	71.79	A16S
ATOM	22803	C8	G	A1082	178.236	131.344	-9.614	1.00	71.79	A16S
ATOM	22804	C2*	G	A1082	179.257	132.250	-12.871	1.00	65.98	A16S
ATOM	22805	O2*	G	A1082	178.964	132.246	-14.247	1.00	65.98	A16S
ATOM	22806	C3*	G	A1082	180.608	131.631	-12.531	1.00	65.98	A16S
ATOM	22807	O3*	G	A1082	181.614	131.948	-13.487	1.00	65.98	A16S
ATOM	22808	P	U	A1083	182.721	133.069	-13.138	1.00	83.31	A16S
ATOM	22809	O1P	U	A1083	183.675	133.182	-14.296	1.00	85.95	A16S
ATOM	22810	O2P	U	A1083	183.258	132.793	-11.767	1.00	85.95	A16S
ATOM	22811	O5*	U	A1083	181.870	134.417	-13.094	1.00	83.31	A16S
ATOM	22812	C5*	U	A1083	181.101	134.835	-14.238	1.00	83.31	A16S
ATOM	22813	C4*	U	A1083	180.224	136.027	-13.899	1.00	83.31	A16S
ATOM	22814	O4*	U	A1083	179.207	135.656	-12.938	1.00	83.31	A16S
ATOM	22815	C1*	U	A1083	178.863	136.786	-12.160	1.00	83.31	A16S
ATOM	22816	N1	U	A1083	179.019	136.465	-10.733	1.00	85.95	A16S
ATOM	22817	C6	U	A1083	179.956	135.564	-10.288	1.00	85.95	A16S
ATOM	22818	C2	U	A1083	178.180	137.111	-9.846	1.00	85.95	A16S
ATOM	22819	O2	U	A1083	177.338	137.922	-10.205	1.00	85.95	A16S
ATOM	22820	N3	U	A1083	178.364	136.775	-8.524	1.00	85.95	A16S
ATOM	22821	C4	U	A1083	179.284	135.881	-8.011	1.00	85.95	A16S
ATOM	22822	O4	U	A1083	179.320	135.669	-6.792	1.00	85.95	A16S
ATOM	22823	C5	U	A1083	180.111	135.259	-8.994	1.00	85.95	A16S
ATOM	22824	C2*	U	A1083	179.717	137.966	-12.623	1.00	83.31	A16S
ATOM	22825	O2*	U	A1083	178.924	138.725	-13.515	1.00	83.31	A16S
ATOM	22826	C3*	U	A1083	180.890	137.265	-13.311	1.00	83.31	A16S
ATOM	22827	O3*	U	A1083	181.408	138.086	-14.358	1.00	83.31	A16S
ATOM	22828	P	G	A1084	182.997	138.341	-14.496	1.00	74.86	A16S
ATOM	22829	O1P	G	A1084	183.105	139.028	-15.819	1.00	79.82	A16S
ATOM	22830	O2P	G	A1084	183.793	137.103	-14.234	1.00	79.82	A16S
ATOM	22831	O5*	G	A1084	183.353	139.353	-13.321	1.00	74.86	A16S
ATOM	22832	C5*	G	A1084	182.777	140.662	-13.269	1.00	74.86	A16S
ATOM	22833	C4*	G	A1084	182.835	141.184	-11.861	1.00	74.86	A16S
ATOM	22834	O4*	G	A1084	182.037	140.330	-11.001	1.00	74.86	A16S
ATOM	22835	C1*	G	A1084	182.610	140.287	-9.708	1.00	74.86	A16S
ATOM	22836	N9	G	A1084	182.824	138.891	-9.345	1.00	79.82	A16S
ATOM	22837	C4	G	A1084	182.537	138.317	-8.129	1.00	79.82	A16S
ATOM	22838	N3	G	A1084	181.997	138.947	-7.064	1.00	79.82	A16S
ATOM	22839	C2	G	A1084	181.860	138.135	-6.024	1.00	79.82	A16S
ATOM	22840	N2	G	A1084	181.361	138.607	-4.867	1.00	79.82	A16S
ATOM	22841	N1	G	A1084	182.209	136.805	-6.033	1.00	79.82	A16S
ATOM	22842	C6	G	A1084	182.769	136.133	-7.110	1.00	79.82	A16S
ATOM	22843	O6	G	A1084	183.064	134.931	-6.995	1.00	79.82	A16S
ATOM	22844	C5	G	A1084	182.931	137.000	-8.242	1.00	79.82	A16S
ATOM	22845	N7	G	A1084	183.448	136.751	-9.509	1.00	79.82	A16S
ATOM	22846	C8	G	A1084	183.358	137.897	-10.129	1.00	79.82	A16S
ATOM	22847	C2*	G	A1084	183.895	141.122	-9.722	1.00	74.86	A16S
ATOM	22848	O2*	G	A1084	183.654	142.379	-9.105	1.00	74.86	A16S
ATOM	22849	C3*	G	A1084	184.213	141.185	-11.218	1.00	74.86	A16S
ATOM	22850	O3*	G	A1084	184.937	142.346	-11.612	1.00	74.86	A16S
ATOM	22851	P	U	A1085	186.495	142.493	-11.235	1.00	91.76	A16S
ATOM	22852	O1P	U	A1085	187.009	143.556	-12.147	1.00	100.65	A16S
ATOM	22853	O2P	U	A1085	186.638	142.643	-9.755	1.00	100.65	A16S
ATOM	22854	O5*	U	A1085	187.148	141.103	-11.642	1.00	91.76	A16S
ATOM	22855	C5*	U	A1085	188.567	140.982	-11.869	1.00	91.76	A16S
ATOM	22856	C4*	U	A1085	188.955	139.530	-11.854	1.00	91.76	A16S
ATOM	22857	O4*	U	A1085	188.869	139.059	-10.494	1.00	91.76	A16S
ATOM	22858	C1*	U	A1085	188.290	137.771	-10.471	1.00	91.76	A16S
ATOM	22859	N1	U	A1085	187.345	137.697	-9.345	1.00	100.65	A16S
ATOM	22860	C6	U	A1085	186.857	138.835	-8.746	1.00	100.65	A16S
ATOM	22861	C2	U	A1085	187.005	136.442	-8.862	1.00	100.65	A16S
ATOM	22862	O2	U	A1085	187.339	135.399	-9.408	1.00	100.65	A16S



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ATOM	22863	N3	U	A1085	186.252	136.448	-7.718	1.00100.65	A16S
ATOM	22864	C4	U	A1085	185.793	137.547	-7.036	1.00100.65	A16S
ATOM	22865	O4	U	A1085	185.277	137.389	-5.932	1.00100.65	A16S
ATOM	22866	C5	U	A1085	186.115	138.803	-7.641	1.00100.65	A16S
ATOM	22867	C2*	U	A1085	187.845	137.362	-11.881	1.00 91.76	A16S
ATOM	22868	O2*	U	A1085	188.599	136.259	-12.347	1.00 91.76	A16S
ATOM	22869	C3*	U	A1085	187.988	138.675	-12.658	1.00 91.76	A16S
ATOM	22870	O3*	U	A1085	188.322	138.623	-14.068	1.00 91.76	A16S
ATOM	22871	P	U	A1086	189.819	138.238	-14.579	1.00 93.30	A16S
ATOM	22872	O1P	U	A1086	190.448	137.204	-13.715	1.00110.40	A16S
ATOM	22873	O2P	U	A1086	190.551	139.503	-14.844	1.00110.40	A16S
ATOM	22874	O5*	U	A1086	189.539	137.560	-15.994	1.00 93.30	A16S
ATOM	22875	C5*	U	A1086	188.928	136.249	-16.088	1.00 93.30	A16S
ATOM	22876	C4*	U	A1086	187.802	136.261	-17.101	1.00 93.30	A16S
ATOM	22877	O4*	U	A1086	186.604	136.843	-16.529	1.00 93.30	A16S
ATOM	22878	C1*	U	A1086	185.935	137.635	-17.509	1.00 93.30	A16S
ATOM	22879	N1	U	A1086	185.871	139.029	-17.022	1.00110.40	A16S
ATOM	22880	C6	U	A1086	186.396	139.361	-15.790	1.00110.40	A16S
ATOM	22881	C2	U	A1086	185.269	140.010	-17.826	1.00110.40	A16S
ATOM	22882	O2	U	A1086	184.791	139.777	-18.935	1.00110.40	A16S
ATOM	22883	N3	U	A1086	185.252	141.276	-17.274	1.00110.40	A16S
ATOM	22884	C4	U	A1086	185.762	141.663	-16.035	1.00110.40	A16S
ATOM	22885	O4	U	A1086	185.633	142.834	-15.644	1.00110.40	A16S
ATOM	22886	C5	U	A1086	186.365	140.603	-15.289	1.00110.40	A16S
ATOM	22887	C2*	U	A1086	186.696	137.482	-18.830	1.00 93.30	A16S
ATOM	22888	O2*	U	A1086	186.073	136.507	-19.643	1.00 93.30	A16S
ATOM	22889	C3*	U	A1086	188.087	137.090	-18.341	1.00 93.30	A16S
ATOM	22890	O3*	U	A1086	188.843	136.369	-19.301	1.00 93.30	A16S
ATOM	22891	P	G	A1087	190.048	137.103	-20.065	1.00 88.25	A16S
ATOM	22892	O1P	G	A1087	190.686	136.077	-20.916	1.00 73.05	A16S
ATOM	22893	O2P	G	A1087	190.863	137.838	-19.059	1.00 73.05	A16S
ATOM	22894	O5*	G	A1087	189.307	138.124	-21.033	1.00 88.25	A16S
ATOM	22895	C5*	G	A1087	188.471	137.629	-22.082	1.00 88.25	A16S
ATOM	22896	C4*	G	A1087	187.878	138.773	-22.852	1.00 88.25	A16S
ATOM	22897	O4*	G	A1087	186.894	139.448	-22.028	1.00 88.25	A16S
ATOM	22898	C1*	G	A1087	186.967	140.850	-22.245	1.00 88.25	A16S
ATOM	22899	N9	G	A1087	187.439	141.455	-21.005	1.00 73.05	A16S
ATOM	22900	C4	G	A1087	187.640	142.789	-20.764	1.00 73.05	A16S
ATOM	22901	N3	G	A1087	187.422	143.793	-21.641	1.00 73.05	A16S
ATOM	22902	C2	G	A1087	187.742	144.970	-21.125	1.00 73.05	A16S
ATOM	22903	N2	G	A1087	187.614	146.080	-21.874	1.00 73.05	A16S
ATOM	22904	N1	G	A1087	188.219	145.139	-19.837	1.00 73.05	A16S
ATOM	22905	C6	G	A1087	188.441	144.108	-18.922	1.00 73.05	A16S
ATOM	22906	O6	G	A1087	188.872	144.356	-17.788	1.00 73.05	A16S
ATOM	22907	C5	G	A1087	188.120	142.858	-19.468	1.00 73.05	A16S
ATOM	22908	N7	G	A1087	188.208	141.595	-18.908	1.00 73.05	A16S
ATOM	22909	C8	G	A1087	187.791	140.796	-19.850	1.00 73.05	A16S
ATOM	22910	C2*	G	A1087	187.961	141.085	-23.384	1.00 88.25	A16S
ATOM	22911	O2*	G	A1087	187.262	141.154	-24.618	1.00 88.25	A16S
ATOM	22912	C3*	G	A1087	188.863	139.860	-23.250	1.00 88.25	A16S
ATOM	22913	O3*	G	A1087	189.589	139.532	-24.433	1.00 88.25	A16S
ATOM	22914	P	G	A1088	191.151	139.916	-24.539	1.00102.31	A16S
ATOM	22915	O1P	G	A1088	191.680	139.187	-25.717	1.00 78.52	A16S
ATOM	22916	O2P	G	A1088	191.811	139.752	-23.217	1.00 78.52	A16S
ATOM	22917	O5*	G	A1088	191.144	141.471	-24.870	1.00102.31	A16S
ATOM	22918	C5*	G	A1088	190.692	141.949	-26.145	1.00102.31	A16S
ATOM	22919	C4*	G	A1088	190.896	143.438	-26.235	1.00102.31	A16S
ATOM	22920	O4*	G	A1088	189.984	144.105	-25.319	1.00102.31	A16S
ATOM	22921	C1*	G	A1088	190.627	145.230	-24.740	1.00102.31	A16S
ATOM	22922	N9	G	A1088	190.783	145.018	-23.299	1.00 78.52	A16S
ATOM	22923	C4	G	A1088	191.110	145.996	-22.409	1.00 78.52	A16S
ATOM	22924	N3	G	A1088	191.309	147.291	-22.718	1.00 78.52	A16S
ATOM	22925	C2	G	A1088	191.657	147.998	-21.666	1.00 78.52	A16S
ATOM	22926	N2	G	A1088	191.925	149.300	-21.816	1.00 78.52	A16S
ATOM	22927	N1	G	A1088	191.777	147.480	-20.396	1.00 78.52	A16S
ATOM	22928	C6	G	A1088	191.567	146.148	-20.052	1.00 78.52	A16S
ATOM	22929	O6	G	A1088	191.697	145.789	-18.876	1.00 78.52	A16S
ATOM	22930	C5	G	A1088	191.214	145.368	-21.183	1.00 78.52	A16S
ATOM	22931	N7	G	A1088	190.942	144.010	-21.297	1.00 78.52	A16S
ATOM	22932	C8	G	A1088	190.682	143.846	-22.568	1.00 78.52	A16S
ATOM	22933	C2*	G	A1088	192.004	145.358	-25.393	1.00102.31	A16S
ATOM	22934	O2*	G	A1088	191.962	146.251	-26.489	1.00102.31	A16S
ATOM	22935	C3*	G	A1088	192.271	143.918	-25.798	1.00102.31	A16S
ATOM	22936	O3*	G	A1088	193.280	143.783	-26.783	1.00102.31	A16S
ATOM	22937	P	G	A1089	194.801	143.517	-26.320	1.00 95.22	A16S
ATOM	22938	O1P	G	A1089	195.554	143.298	-27.580	1.00 82.79	A16S
ATOM	22939	O2P	G	A1089	194.842	142.470	-25.255	1.00 82.79	A16S



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ATOM	22940	O5*	G	A1089	195.245	144.904	-25.657	1.00	95.22	A16S
ATOM	22941	C5*	G	A1089	195.256	146.123	-26.434	1.00	95.22	A16S
ATOM	22942	C4*	G	A1089	195.684	147.309	-25.591	1.00	95.22	A16S
ATOM	22943	O4*	G	A1089	194.641	147.646	-24.638	1.00	95.22	A16S
ATOM	22944	C1*	G	A1089	195.229	148.185	-23.460	1.00	95.22	A16S
ATOM	22945	N9	G	A1089	194.988	147.280	-22.338	1.00	82.79	A16S
ATOM	22946	C4	G	A1089	195.196	147.580	-21.013	1.00	82.79	A16S
ATOM	22947	N3	G	A1089	195.610	148.767	-20.530	1.00	82.79	A16S
ATOM	22948	C2	G	A1089	195.730	148.752	-19.212	1.00	82.79	A16S
ATOM	22949	N2	G	A1089	196.113	149.865	-18.569	1.00	82.79	A16S
ATOM	22950	N1	G	A1089	195.479	147.650	-18.430	1.00	82.79	A16S
ATOM	22951	C6	G	A1089	195.056	146.416	-18.904	1.00	82.79	A16S
ATOM	22952	O6	G	A1089	194.862	145.493	-18.110	1.00	82.79	A16S
ATOM	22953	C5	G	A1089	194.909	146.422	-20.323	1.00	82.79	A16S
ATOM	22954	N7	G	A1089	194.508	145.417	-21.195	1.00	82.79	A16S
ATOM	22955	C8	G	A1089	194.562	145.972	-22.377	1.00	82.79	A16S
ATOM	22956	C2*	G	A1089	196.733	148.253	-23.693	1.00	95.22	A16S
ATOM	22957	O2*	G	A1089	197.092	149.527	-24.178	1.00	95.22	A16S
ATOM	22958	C3*	G	A1089	196.929	147.159	-24.728	1.00	95.22	A16S
ATOM	22959	O3*	G	A1089	198.157	147.339	-25.405	1.00	95.22	A16S
ATOM	22960	P	U	A1090	199.484	146.631	-24.827	1.00	92.06	A16S
ATOM	22961	O1P	U	A1090	200.616	147.185	-25.611	1.00	93.93	A16S
ATOM	22962	O2P	U	A1090	199.279	145.153	-24.760	1.00	93.93	A16S
ATOM	22963	O5*	U	A1090	199.627	147.162	-23.328	1.00	92.06	A16S
ATOM	22964	C5*	U	A1090	200.053	148.509	-23.055	1.00	92.06	A16S
ATOM	22965	C4*	U	A1090	200.158	148.740	-21.566	1.00	92.06	A16S
ATOM	22966	O4*	U	A1090	198.889	148.425	-20.935	1.00	92.06	A16S
ATOM	22967	C1*	U	A1090	199.113	147.966	-19.610	1.00	92.06	A16S
ATOM	22968	N1	U	A1090	198.544	146.617	-19.458	1.00	93.93	A16S
ATOM	22969	C6	U	A1090	198.157	145.867	-20.546	1.00	93.93	A16S
ATOM	22970	C2	U	A1090	198.425	146.115	-18.171	1.00	93.93	A16S
ATOM	22971	O2	U	A1090	198.749	146.748	-17.181	1.00	93.93	A16S
ATOM	22972	N3	U	A1090	197.917	144.841	-18.089	1.00	93.93	A16S
ATOM	22973	C4	U	A1090	197.521	144.031	-19.140	1.00	93.93	A16S
ATOM	22974	O4	U	A1090	197.099	142.886	-18.910	1.00	93.93	A16S
ATOM	22975	C5	U	A1090	197.665	144.627	-20.434	1.00	93.93	A16S
ATOM	22976	C2*	U	A1090	200.620	147.966	-19.371	1.00	92.06	A16S
ATOM	22977	O2*	U	A1090	200.976	149.157	-18.700	1.00	92.06	A16S
ATOM	22978	C3*	U	A1090	201.155	147.893	-20.796	1.00	92.06	A16S
ATOM	22979	O3*	U	A1090	202.473	148.395	-20.878	1.00	92.06	A16S
ATOM	22980	P	U	A1091	203.714	147.381	-20.745	1.00	76.85	A16S
ATOM	22981	O1P	U	A1091	204.914	148.145	-21.172	1.00	94.30	A16S
ATOM	22982	O2P	U	A1091	203.379	146.095	-21.410	1.00	94.30	A16S
ATOM	22983	O5*	U	A1091	203.838	147.096	-19.188	1.00	76.85	A16S
ATOM	22984	C5*	U	A1091	204.138	148.165	-18.308	1.00	76.85	A16S
ATOM	22985	C4*	U	A1091	203.906	147.760	-16.889	1.00	76.85	A16S
ATOM	22986	O4*	U	A1091	202.526	147.345	-16.705	1.00	76.85	A16S
ATOM	22987	C1*	U	A1091	202.460	146.457	-15.602	1.00	76.85	A16S
ATOM	22988	N1	U	A1091	201.723	145.237	-15.973	1.00	94.30	A16S
ATOM	22989	C6	U	A1091	201.532	144.849	-17.279	1.00	94.30	A16S
ATOM	22990	C2	U	A1091	201.240	144.462	-14.928	1.00	94.30	A16S
ATOM	22991	O2	U	A1091	201.330	144.793	-13.762	1.00	94.30	A16S
ATOM	22992	N3	U	A1091	200.628	143.295	-15.299	1.00	94.30	A16S
ATOM	22993	C4	U	A1091	200.412	142.842	-16.574	1.00	94.30	A16S
ATOM	22994	O4	U	A1091	199.758	141.805	-16.737	1.00	94.30	A16S
ATOM	22995	C5	U	A1091	200.907	143.710	-17.608	1.00	94.30	A16S
ATOM	22996	C2*	U	A1091	203.898	146.163	-15.149	1.00	76.85	A16S
ATOM	22997	O2*	U	A1091	204.217	146.923	-13.988	1.00	76.85	A16S
ATOM	22998	C3*	U	A1091	204.706	146.578	-16.377	1.00	76.85	A16S
ATOM	22999	O3*	U	A1091	206.042	146.932	-16.032	1.00	76.85	A16S
ATOM	23000	P	A	A1092	207.235	145.887	-16.298	1.00	81.60	A16S
ATOM	23001	O1P	A	A1092	207.194	145.599	-17.754	1.00	89.71	A16S
ATOM	23002	O2P	A	A1092	208.498	146.365	-15.665	1.00	89.71	A16S
ATOM	23003	O5*	A	A1092	206.790	144.584	-15.512	1.00	81.60	A16S
ATOM	23004	C5*	A	A1092	207.567	143.391	-15.596	1.00	81.60	A16S
ATOM	23005	C4*	A	A1092	207.482	142.634	-14.297	1.00	81.60	A16S
ATOM	23006	O4*	A	A1092	208.215	143.355	-13.277	1.00	81.60	A16S
ATOM	23007	C1*	A	A1092	207.497	143.311	-12.060	1.00	81.60	A16S
ATOM	23008	N9	A	A1092	207.126	144.688	-11.733	1.00	89.71	A16S
ATOM	23009	C4	A	A1092	206.711	145.170	-10.516	1.00	89.71	A16S
ATOM	23010	N3	A	A1092	206.546	144.479	-9.378	1.00	89.71	A16S
ATOM	23011	C2	A	A1092	206.138	145.279	-8.402	1.00	89.71	A16S
ATOM	23012	N1	A	A1092	205.899	146.589	-8.428	1.00	89.71	A16S
ATOM	23013	C6	A	A1092	206.080	147.254	-9.587	1.00	89.71	A16S
ATOM	23014	N6	A	A1092	205.850	148.570	-9.617	1.00	89.71	A16S
ATOM	23015	C5	A	A1092	206.503	146.521	-10.699	1.00	89.71	A16S
ATOM	23016	N7	A	A1092	206.769	146.888	-12.011	1.00	89.71	A16S



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ATOM	23017	C8	A	A1092	207.132	145.769	-12.581	1.00	89.71	A16S
ATOM	23018	C2*	A	A1092	206.294	142.381	-12.257	1.00	81.60	A16S
ATOM	23019	O2*	A	A1092	206.644	141.072	-11.863	1.00	81.60	A16S
ATOM	23020	C3*	A	A1092	206.069	142.487	-13.757	1.00	81.60	A16S
ATOM	23021	O3*	A	A1092	205.421	141.353	-14.324	1.00	81.60	A16S
ATOM	23022	P	A	A1093	203.923	141.498	-14.894	1.00	86.06	A16S
ATOM	23023	O1P	A	A1093	203.574	140.225	-15.580	1.00	79.45	A16S
ATOM	23024	O2P	A	A1093	203.785	142.785	-15.631	1.00	79.45	A16S
ATOM	23025	O5*	A	A1093	203.062	141.536	-13.559	1.00	86.06	A16S
ATOM	23026	C5*	A	A1093	203.050	140.380	-12.687	1.00	86.06	A16S
ATOM	23027	C4*	A	A1093	202.245	140.658	-11.446	1.00	86.06	A16S
ATOM	23028	O4*	A	A1093	202.975	141.577	-10.606	1.00	86.06	A16S
ATOM	23029	C1*	A	A1093	202.073	142.453	-9.969	1.00	86.06	A16S
ATOM	23030	N9	A	A1093	202.426	143.820	-10.360	1.00	79.45	A16S
ATOM	23031	C4	A	A1093	202.520	144.923	-9.545	1.00	79.45	A16S
ATOM	23032	N3	A	A1093	202.344	144.975	-8.218	1.00	79.45	A16S
ATOM	23033	C2	A	A1093	202.483	146.220	-7.778	1.00	79.45	A16S
ATOM	23034	N1	A	A1093	202.745	147.336	-8.462	1.00	79.45	A16S
ATOM	23035	C6	A	A1093	202.910	147.248	-9.795	1.00	79.45	A16S
ATOM	23036	N6	A	A1093	203.147	148.364	-10.484	1.00	79.45	A16S
ATOM	23037	C5	A	A1093	202.811	145.984	-10.381	1.00	79.45	A16S
ATOM	23038	N7	A	A1093	202.938	145.556	-11.692	1.00	79.45	A16S
ATOM	23039	C8	A	A1093	202.710	144.268	-11.624	1.00	79.45	A16S
ATOM	23040	C2*	A	A1093	200.650	142.022	-10.351	1.00	86.06	A16S
ATOM	23041	O2*	A	A1093	200.189	141.161	-9.331	1.00	86.06	A16S
ATOM	23042	C3*	A	A1093	200.879	141.286	-11.672	1.00	86.06	A16S
ATOM	23043	O3*	A	A1093	199.924	140.239	-11.905	1.00	86.06	A16S
ATOM	23044	P	G	A1094	198.796	140.380	-13.057	1.00	81.16	A16S
ATOM	23045	O1P	G	A1094	198.906	141.712	-13.702	1.00	81.30	A16S
ATOM	23046	O2P	G	A1094	198.882	139.160	-13.903	1.00	81.30	A16S
ATOM	23047	O5*	G	A1094	197.427	140.281	-12.223	1.00	81.16	A16S
ATOM	23048	C5*	G	A1094	196.265	141.097	-12.551	1.00	81.16	A16S
ATOM	23049	C4*	G	A1094	195.559	141.594	-11.292	1.00	81.16	A16S
ATOM	23050	O4*	G	A1094	194.294	140.912	-11.037	1.00	81.16	A16S
ATOM	23051	C1*	G	A1094	194.147	140.750	-9.644	1.00	81.16	A16S
ATOM	23052	N9	G	A1094	193.318	139.589	-9.354	1.00	81.30	A16S
ATOM	23053	C4	G	A1094	192.042	139.590	-8.824	1.00	81.30	A16S
ATOM	23054	N3	G	A1094	191.290	140.678	-8.547	1.00	81.30	A16S
ATOM	23055	C2	G	A1094	190.125	140.346	-7.999	1.00	81.30	A16S
ATOM	23056	N2	G	A1094	189.242	141.294	-7.661	1.00	81.30	A16S
ATOM	23057	N1	G	A1094	189.736	139.058	-7.739	1.00	81.30	A16S
ATOM	23058	C6	G	A1094	190.488	137.928	-8.011	1.00	81.30	A16S
ATOM	23059	O6	G	A1094	190.047	136.815	-7.719	1.00	81.30	A16S
ATOM	23060	C5	G	A1094	191.734	138.261	-8.612	1.00	81.30	A16S
ATOM	23061	N7	G	A1094	192.769	137.441	-9.046	1.00	81.30	A16S
ATOM	23062	C8	G	A1094	193.677	138.270	-9.488	1.00	81.30	A16S
ATOM	23063	C2*	G	A1094	195.572	140.576	-9.127	1.00	81.16	A16S
ATOM	23064	O2*	G	A1094	195.610	140.805	-7.733	1.00	81.16	A16S
ATOM	23065	C3*	G	A1094	196.326	141.605	-9.968	1.00	81.16	A16S
ATOM	23066	O3*	G	A1094	196.183	142.873	-9.340	1.00	81.16	A16S
ATOM	23067	P	U	A1095	197.274	143.367	-8.268	1.00	78.73	A16S
ATOM	23068	O1P	U	A1095	198.331	142.334	-8.180	1.00	79.94	A16S
ATOM	23069	O2P	U	A1095	196.545	143.767	-7.036	1.00	79.94	A16S
ATOM	23070	O5*	U	A1095	197.874	144.676	-8.955	1.00	78.73	A16S
ATOM	23071	C5*	U	A1095	198.843	145.481	-8.272	1.00	78.73	A16S
ATOM	23072	C4*	U	A1095	199.178	146.712	-9.075	1.00	78.73	A16S
ATOM	23073	O4*	U	A1095	199.981	146.363	-10.226	1.00	78.73	A16S
ATOM	23074	C1*	U	A1095	199.652	147.210	-11.315	1.00	78.73	A16S
ATOM	23075	N1	U	A1095	199.077	146.377	-12.387	1.00	79.94	A16S
ATOM	23076	C6	U	A1095	198.639	145.099	-12.118	1.00	79.94	A16S
ATOM	23077	C2	U	A1095	198.969	146.912	-13.672	1.00	79.94	A16S
ATOM	23078	O2	U	A1095	199.355	148.038	-13.969	1.00	79.94	A16S
ATOM	23079	N3	U	A1095	198.387	146.074	-14.597	1.00	79.94	A16S
ATOM	23080	C4	U	A1095	197.915	144.782	-14.382	1.00	79.94	A16S
ATOM	23081	O4	U	A1095	197.394	144.146	-15.315	1.00	79.94	A16S
ATOM	23082	C5	U	A1095	198.081	144.311	-13.041	1.00	79.94	A16S
ATOM	23083	C2*	U	A1095	198.653	148.242	-10.792	1.00	78.73	A16S
ATOM	23084	O2*	U	A1095	199.358	149.381	-10.330	1.00	78.73	A16S
ATOM	23085	C3*	U	A1095	198.006	147.485	-9.644	1.00	78.73	A16S
ATOM	23086	O3*	U	A1095	197.450	148.371	-8.687	1.00	78.73	A16S
ATOM	23087	P	C	A1096	195.888	148.734	-8.759	1.00	92.29	A16S
ATOM	23088	O1P	C	A1096	195.611	149.588	-7.572	1.00	85.33	A16S
ATOM	23089	O2P	C	A1096	195.118	147.467	-8.951	1.00	85.33	A16S
ATOM	23090	O5*	C	A1096	195.765	149.640	-10.064	1.00	92.29	A16S
ATOM	23091	C5*	C	A1096	196.232	150.987	-10.038	1.00	92.29	A16S
ATOM	23092	C4*	C	A1096	196.335	151.531	-11.431	1.00	92.29	A16S
ATOM	23093	O4*	C	A1096	197.173	150.636	-12.203	1.00	92.29	A16S



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ATOM	23094	C1*	C	A1096	196.741	150.625	-13.553	1.00	92.29	A16S
ATOM	23095	N1	C	A1096	196.303	149.264	-13.914	1.00	85.33	A16S
ATOM	23096	C6	C	A1096	196.063	148.316	-12.959	1.00	85.33	A16S
ATOM	23097	C2	C	A1096	196.102	148.968	-15.268	1.00	85.33	A16S
ATOM	23098	O2	C	A1096	196.359	149.832	-16.114	1.00	85.33	A16S
ATOM	23099	N3	C	A1096	195.633	147.752	-15.617	1.00	85.33	A16S
ATOM	23100	C4	C	A1096	195.374	146.845	-14.677	1.00	85.33	A16S
ATOM	23101	N4	C	A1096	194.889	145.668	-15.065	1.00	85.33	A16S
ATOM	23102	C5	C	A1096	195.599	147.106	-13.293	1.00	85.33	A16S
ATOM	23103	C2*	C	A1096	195.566	151.595	-13.671	1.00	92.29	A16S
ATOM	23104	O2*	C	A1096	196.022	152.851	-14.139	1.00	92.29	A16S
ATOM	23105	C3*	C	A1096	195.047	151.624	-12.239	1.00	92.29	A16S
ATOM	23106	O3*	C	A1096	194.272	152.798	-11.983	1.00	92.29	A16S
ATOM	23107	P	C	A1097	192.723	152.836	-12.432	1.00	101.55	A16S
ATOM	23108	O1P	C	A1097	192.117	154.100	-11.957	1.00	77.84	A16S
ATOM	23109	O2P	C	A1097	192.110	151.540	-12.048	1.00	77.84	A16S
ATOM	23110	O5*	C	A1097	192.770	152.893	-14.020	1.00	101.55	A16S
ATOM	23111	C5*	C	A1097	193.374	154.003	-14.700	1.00	101.55	A16S
ATOM	23112	C4*	C	A1097	193.276	153.810	-16.193	1.00	101.55	A16S
ATOM	23113	O4*	C	A1097	194.059	152.655	-16.593	1.00	101.55	A16S
ATOM	23114	C1*	C	A1097	193.401	151.976	-17.650	1.00	101.55	A16S
ATOM	23115	N1	C	A1097	193.076	150.611	-17.204	1.00	77.84	A16S
ATOM	23116	C6	C	A1097	193.132	150.267	-15.884	1.00	77.84	A16S
ATOM	23117	C2	C	A1097	192.699	149.667	-18.162	1.00	77.84	A16S
ATOM	23118	O2	C	A1097	192.666	150.000	-19.349	1.00	77.84	A16S
ATOM	23119	N3	C	A1097	192.383	148.417	-17.771	1.00	77.84	A16S
ATOM	23120	C4	C	A1097	192.446	148.091	-16.482	1.00	77.84	A16S
ATOM	23121	N4	C	A1097	192.139	146.842	-16.141	1.00	77.84	A16S
ATOM	23122	C5	C	A1097	192.830	149.030	-15.483	1.00	77.84	A16S
ATOM	23123	C2*	C	A1097	192.141	152.767	-18.003	1.00	101.55	A16S
ATOM	23124	O2*	C	A1097	192.403	153.633	-19.087	1.00	101.55	A16S
ATOM	23125	C3*	C	A1097	191.875	153.521	-16.709	1.00	101.55	A16S
ATOM	23126	O3*	C	A1097	191.136	154.714	-16.930	1.00	101.55	A16S
ATOM	23127	P	C	A1098	189.560	154.743	-16.611	1.00	94.71	A16S
ATOM	23128	O1P	C	A1098	189.167	156.183	-16.671	1.00	81.06	A16S
ATOM	23129	O2P	C	A1098	189.327	153.960	-15.356	1.00	81.06	A16S
ATOM	23130	O5*	C	A1098	188.890	153.988	-17.851	1.00	94.71	A16S
ATOM	23131	C5*	C	A1098	188.828	154.629	-19.137	1.00	94.71	A16S
ATOM	23132	C4*	C	A1098	188.586	153.622	-20.235	1.00	94.71	A16S
ATOM	23133	O4*	C	A1098	189.607	152.595	-20.195	1.00	94.71	A16S
ATOM	23134	C1*	C	A1098	189.077	151.376	-20.699	1.00	94.71	A16S
ATOM	23135	N1	C	A1098	189.103	150.348	-19.648	1.00	81.06	A16S
ATOM	23136	C6	C	A1098	189.416	150.652	-18.351	1.00	81.06	A16S
ATOM	23137	C2	C	A1098	188.778	149.037	-20.008	1.00	81.06	A16S
ATOM	23138	O2	C	A1098	188.503	148.793	-21.198	1.00	81.06	A16S
ATOM	23139	N3	C	A1098	188.766	148.076	-19.061	1.00	81.06	A16S
ATOM	23140	C4	C	A1098	189.060	148.383	-17.796	1.00	81.06	A16S
ATOM	23141	N4	C	A1098	189.013	147.404	-16.892	1.00	81.06	A16S
ATOM	23142	C5	C	A1098	189.406	149.710	-17.402	1.00	81.06	A16S
ATOM	23143	C2*	C	A1098	187.630	151.633	-21.079	1.00	94.71	A16S
ATOM	23144	O2*	C	A1098	187.560	151.927	-22.457	1.00	94.71	A16S
ATOM	23145	C3*	C	A1098	187.304	152.816	-20.187	1.00	94.71	A16S
ATOM	23146	O3*	C	A1098	186.175	153.503	-20.659	1.00	94.71	A16S
ATOM	23147	P	G	A1099	184.770	153.279	-19.916	1.00	100.26	A16S
ATOM	23148	O1P	G	A1099	183.812	154.260	-20.524	1.00	77.61	A16S
ATOM	23149	O2P	G	A1099	185.042	153.304	-18.437	1.00	77.61	A16S
ATOM	23150	O5*	G	A1099	184.326	151.801	-20.329	1.00	100.26	A16S
ATOM	23151	C5*	G	A1099	184.037	151.488	-21.700	1.00	100.26	A16S
ATOM	23152	C4*	G	A1099	183.875	150.000	-21.883	1.00	100.26	A16S
ATOM	23153	O4*	G	A1099	185.054	149.317	-21.395	1.00	100.26	A16S
ATOM	23154	C1*	G	A1099	184.694	148.041	-20.907	1.00	100.26	A16S
ATOM	23155	N9	G	A1099	185.107	147.925	-19.516	1.00	77.61	A16S
ATOM	23156	C4	G	A1099	185.118	146.763	-18.811	1.00	77.61	A16S
ATOM	23157	N3	G	A1099	184.742	145.561	-19.289	1.00	77.61	A16S
ATOM	23158	C2	G	A1099	184.882	144.602	-18.387	1.00	77.61	A16S
ATOM	23159	N2	G	A1099	184.568	143.334	-18.711	1.00	77.61	A16S
ATOM	23160	N1	G	A1099	185.347	144.811	-17.102	1.00	77.61	A16S
ATOM	23161	C6	G	A1099	185.744	146.040	-16.578	1.00	77.61	A16S
ATOM	23162	O6	G	A1099	186.161	146.104	-15.400	1.00	77.61	A16S
ATOM	23163	C5	G	A1099	185.599	147.091	-17.557	1.00	77.61	A16S
ATOM	23164	N7	G	A1099	185.873	148.451	-17.480	1.00	77.61	A16S
ATOM	23165	C8	G	A1099	185.561	148.906	-18.665	1.00	77.61	A16S
ATOM	23166	C2*	G	A1099	183.188	147.886	-21.056	1.00	100.26	A16S
ATOM	23167	O2*	G	A1099	182.935	147.162	-22.239	1.00	100.26	A16S
ATOM	23168	C3*	G	A1099	182.741	149.340	-21.126	1.00	100.26	A16S
ATOM	23169	O3*	G	A1099	181.506	149.491	-21.803	1.00	100.26	A16S
ATOM	23170	P	C	A1100	180.177	149.802	-20.955	1.00	77.00	A16S



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ATOM	23171	O1P	C	A1100	179.090	150.070	-21.948	1.00	97.74	A16S
ATOM	23172	O2P	C	A1100	180.524	150.844	-19.938	1.00	97.74	A16S
ATOM	23173	O5*	C	A1100	179.867	148.426	-20.197	1.00	77.00	A16S
ATOM	23174	C5*	C	A1100	179.503	147.233	-20.932	1.00	77.00	A16S
ATOM	23175	C4*	C	A1100	179.625	146.005	-20.054	1.00	77.00	A16S
ATOM	23176	O4*	C	A1100	180.957	145.950	-19.497	1.00	77.00	A16S
ATOM	23177	C1*	C	A1100	180.922	145.281	-18.256	1.00	77.00	A16S
ATOM	23178	N1	C	A1100	181.640	146.085	-17.258	1.00	97.74	A16S
ATOM	23179	C6	C	A1100	181.654	147.448	-17.327	1.00	97.74	A16S
ATOM	23180	C2	C	A1100	182.311	145.420	-16.212	1.00	97.74	A16S
ATOM	23181	O2	C	A1100	182.316	144.175	-16.182	1.00	97.74	A16S
ATOM	23182	N3	C	A1100	182.941	146.143	-15.264	1.00	97.74	A16S
ATOM	23183	C4	C	A1100	182.930	147.474	-15.329	1.00	97.74	A16S
ATOM	23184	N4	C	A1100	183.551	148.146	-14.348	1.00	97.74	A16S
ATOM	23185	C5	C	A1100	182.280	148.176	-16.395	1.00	97.74	A16S
ATOM	23186	C2*	C	A1100	179.465	144.982	-17.905	1.00	77.00	A16S
ATOM	23187	O2*	C	A1100	179.196	143.615	-18.137	1.00	77.00	A16S
ATOM	23188	C3*	C	A1100	178.715	145.926	-18.840	1.00	77.00	A16S
ATOM	23189	O3*	C	A1100	177.451	145.393	-19.201	1.00	77.00	A16S
ATOM	23190	P	A	A1101	176.102	146.155	-18.762	1.00	78.48	A16S
ATOM	23191	O1P	A	A1101	175.043	145.738	-19.747	1.00	69.85	A16S
ATOM	23192	O2P	A	A1101	176.386	147.609	-18.542	1.00	69.85	A16S
ATOM	23193	O5*	A	A1101	175.739	145.507	-17.355	1.00	78.48	A16S
ATOM	23194	C5*	A	A1101	175.522	144.102	-17.243	1.00	78.48	A16S
ATOM	23195	C4*	A	A1101	176.281	143.579	-16.069	1.00	78.48	A16S
ATOM	23196	O4*	A	A1101	175.676	144.116	-14.868	1.00	78.48	A16S
ATOM	23197	C1*	A	A1101	175.269	143.067	-14.009	1.00	78.48	A16S
ATOM	23198	N9	A	A1101	173.890	143.337	-13.564	1.00	69.85	A16S
ATOM	23199	C4	A	A1101	173.442	143.505	-12.267	1.00	69.85	A16S
ATOM	23200	N3	A	A1101	174.173	143.500	-11.136	1.00	69.85	A16S
ATOM	23201	C2	A	A1101	173.394	143.677	-10.071	1.00	69.85	A16S
ATOM	23202	N1	A	A1101	172.067	143.835	-10.010	1.00	69.85	A16S
ATOM	23203	C6	A	A1101	171.360	143.819	-11.160	1.00	69.85	A16S
ATOM	23204	N6	A	A1101	170.034	143.934	-11.096	1.00	69.85	A16S
ATOM	23205	C5	A	A1101	172.067	143.663	-12.359	1.00	69.85	A16S
ATOM	23206	N7	A	A1101	171.652	143.628	-13.683	1.00	69.85	A16S
ATOM	23207	C8	A	A1101	172.763	143.441	-14.359	1.00	69.85	A16S
ATOM	23208	C2*	A	A1101	175.324	141.761	-14.796	1.00	78.48	A16S
ATOM	23209	O2*	A	A1101	175.707	140.696	-13.954	1.00	78.48	A16S
ATOM	23210	C3*	A	A1101	176.307	142.069	-15.923	1.00	78.48	A16S
ATOM	23211	O3*	A	A1101	177.635	141.494	-15.946	1.00	78.48	A16S
ATOM	23212	P	A	A1102	178.759	141.927	-14.870	1.00	80.20	A16S
ATOM	23213	O1P	A	A1102	180.036	141.413	-15.415	1.00	81.56	A16S
ATOM	23214	O2P	A	A1102	178.360	141.555	-13.487	1.00	81.56	A16S
ATOM	23215	O5*	A	A1102	178.789	143.513	-14.977	1.00	80.20	A16S
ATOM	23216	C5*	A	A1102	179.548	144.288	-14.050	1.00	80.20	A16S
ATOM	23217	C4*	A	A1102	178.633	144.975	-13.072	1.00	80.20	A16S
ATOM	23218	O4*	A	A1102	177.793	144.000	-12.421	1.00	80.20	A16S
ATOM	23219	C1*	A	A1102	177.622	144.349	-11.065	1.00	80.20	A16S
ATOM	23220	N9	A	A1102	178.060	143.226	-10.248	1.00	81.56	A16S
ATOM	23221	C4	A	A1102	177.894	143.108	-8.891	1.00	81.56	A16S
ATOM	23222	N3	A	A1102	177.303	143.985	-8.064	1.00	81.56	A16S
ATOM	23223	C2	A	A1102	177.332	143.537	-6.811	1.00	81.56	A16S
ATOM	23224	N1	A	A1102	177.845	142.400	-6.327	1.00	81.56	A16S
ATOM	23225	C6	A	A1102	178.430	141.544	-7.185	1.00	81.56	A16S
ATOM	23226	N6	A	A1102	178.940	140.414	-6.700	1.00	81.56	A16S
ATOM	23227	C5	A	A1102	178.466	141.903	-8.546	1.00	81.56	A16S
ATOM	23228	N7	A	A1102	178.976	141.268	-9.668	1.00	81.56	A16S
ATOM	23229	C8	A	A1102	178.710	142.093	-10.647	1.00	81.56	A16S
ATOM	23230	C2*	A	A1102	178.393	145.641	-10.791	1.00	80.20	A16S
ATOM	23231	O2*	A	A1102	177.479	146.712	-10.761	1.00	80.20	A16S
ATOM	23232	C3*	A	A1102	179.378	145.677	-11.956	1.00	80.20	A16S
ATOM	23233	O3*	A	A1102	179.677	146.991	-12.405	1.00	80.20	A16S
ATOM	23234	P	C	A1103	180.829	147.845	-11.688	1.00	76.03	A16S
ATOM	23235	O1P	C	A1103	180.832	149.126	-12.452	1.00	79.68	A16S
ATOM	23236	O2P	C	A1103	182.100	147.059	-11.563	1.00	79.68	A16S
ATOM	23237	O5*	C	A1103	180.251	148.094	-10.224	1.00	76.03	A16S
ATOM	23238	C5*	C	A1103	179.266	149.108	-9.988	1.00	76.03	A16S
ATOM	23239	C4*	C	A1103	179.105	149.323	-8.514	1.00	76.03	A16S
ATOM	23240	O4*	C	A1103	178.489	148.158	-7.928	1.00	76.03	A16S
ATOM	23241	C1*	C	A1103	179.052	147.910	-6.655	1.00	76.03	A16S
ATOM	23242	N1	C	A1103	179.642	146.569	-6.673	1.00	79.68	A16S
ATOM	23243	C6	C	A1103	180.041	145.993	-7.844	1.00	79.68	A16S
ATOM	23244	C2	C	A1103	179.777	145.876	-5.461	1.00	79.68	A16S
ATOM	23245	O2	C	A1103	179.427	146.440	-4.404	1.00	79.68	A16S
ATOM	23246	N3	C	A1103	180.284	144.619	-5.471	1.00	79.68	A16S
ATOM	23247	C4	C	A1103	180.657	144.065	-6.623	1.00	79.68	A16S



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ATOM	23248	N4	C	A1103	181.144	142.832	-6.593	1.00	79.68	A16S
ATOM	23249	C5	C	A1103	180.546	144.756	-7.864	1.00	79.68	A16S
ATOM	23250	C2*	C	A1103	180.071	149.004	-6.362	1.00	76.03	A16S
ATOM	23251	O2*	C	A1103	179.458	149.985	-5.555	1.00	76.03	A16S
ATOM	23252	C3*	C	A1103	180.415	149.474	-7.769	1.00	76.03	A16S
ATOM	23253	O3*	C	A1103	180.877	150.809	-7.830	1.00	76.03	A16S
ATOM	23254	P	G	A1104	182.418	151.123	-7.523	1.00	82.19	A16S
ATOM	23255	O1P	G	A1104	182.616	152.578	-7.818	1.00	74.42	A16S
ATOM	23256	O2P	G	A1104	183.242	150.109	-8.235	1.00	74.42	A16S
ATOM	23257	O5*	G	A1104	182.521	150.864	-5.953	1.00	82.19	A16S
ATOM	23258	C5*	G	A1104	183.657	150.221	-5.376	1.00	82.19	A16S
ATOM	23259	C4*	G	A1104	183.281	149.633	-4.046	1.00	82.19	A16S
ATOM	23260	O4*	G	A1104	182.351	148.539	-4.253	1.00	82.19	A16S
ATOM	23261	C1*	G	A1104	182.587	147.523	-3.285	1.00	82.19	A16S
ATOM	23262	N9	G	A1104	182.937	146.278	-3.970	1.00	74.42	A16S
ATOM	23263	C4	G	A1104	183.077	145.042	-3.378	1.00	74.42	A16S
ATOM	23264	N3	G	A1104	182.887	144.763	-2.069	1.00	74.42	A16S
ATOM	23265	C2	G	A1104	183.113	143.490	-1.798	1.00	74.42	A16S
ATOM	23266	N2	G	A1104	182.970	143.040	-0.548	1.00	74.42	A16S
ATOM	23267	N1	G	A1104	183.496	142.566	-2.734	1.00	74.42	A16S
ATOM	23268	C6	G	A1104	183.696	142.833	-4.085	1.00	74.42	A16S
ATOM	23269	O6	G	A1104	184.045	141.930	-4.842	1.00	74.42	A16S
ATOM	23270	C5	G	A1104	183.454	144.191	-4.392	1.00	74.42	A16S
ATOM	23271	N7	G	A1104	183.530	144.865	-5.601	1.00	74.42	A16S
ATOM	23272	C8	G	A1104	183.214	146.098	-5.306	1.00	74.42	A16S
ATOM	23273	C2*	G	A1104	183.729	147.991	-2.380	1.00	82.19	A16S
ATOM	23274	O2*	G	A1104	183.236	148.533	-1.170	1.00	82.19	A16S
ATOM	23275	C3*	G	A1104	184.426	149.006	-3.275	1.00	82.19	A16S
ATOM	23276	O3*	G	A1104	185.163	149.962	-2.536	1.00	82.19	A16S
ATOM	23277	P	A	A1105	186.716	149.686	-2.218	1.00	85.41	A16S
ATOM	23278	O1P	A	A1105	187.238	150.883	-1.502	1.00	91.56	A16S
ATOM	23279	O2P	A	A1105	187.374	149.247	-3.492	1.00	91.56	A16S
ATOM	23280	O5*	A	A1105	186.678	148.480	-1.169	1.00	85.41	A16S
ATOM	23281	C5*	A	A1105	186.029	148.648	0.093	1.00	85.41	A16S
ATOM	23282	C4*	A	A1105	185.922	147.334	0.805	1.00	85.41	A16S
ATOM	23283	O4*	A	A1105	185.122	146.421	0.020	1.00	85.41	A16S
ATOM	23284	C1*	A	A1105	185.579	145.088	0.229	1.00	85.41	A16S
ATOM	23285	N9	A	A1105	185.982	144.519	-1.057	1.00	91.56	A16S
ATOM	23286	C4	A	A1105	186.334	143.209	-1.281	1.00	91.56	A16S
ATOM	23287	N3	A	A1105	186.340	142.202	-0.389	1.00	91.56	A16S
ATOM	23288	C2	A	A1105	186.753	141.073	-0.964	1.00	91.56	A16S
ATOM	23289	N1	A	A1105	187.145	140.857	-2.230	1.00	91.56	A16S
ATOM	23290	C6	A	A1105	187.142	141.899	-3.096	1.00	91.56	A16S
ATOM	23291	N6	A	A1105	187.570	141.702	-4.351	1.00	91.56	A16S
ATOM	23292	C5	A	A1105	186.700	143.142	-2.615	1.00	91.56	A16S
ATOM	23293	N7	A	A1105	186.553	144.379	-3.229	1.00	91.56	A16S
ATOM	23294	C8	A	A1105	186.122	145.158	-2.267	1.00	91.56	A16S
ATOM	23295	C2*	A	A1105	186.759	145.149	1.199	1.00	85.41	A16S
ATOM	23296	O2*	A	A1105	186.322	144.867	2.510	1.00	85.41	A16S
ATOM	23297	C3*	A	A1105	187.221	146.589	1.028	1.00	85.41	A16S
ATOM	23298	O3*	A	A1105	187.888	147.044	2.178	1.00	85.41	A16S
ATOM	23299	P	G	A1106	189.471	146.825	2.307	1.00	84.56	A16S
ATOM	23300	O1P	G	A1106	189.939	147.573	3.512	1.00	78.96	A16S
ATOM	23301	O2P	G	A1106	190.066	147.124	0.966	1.00	78.96	A16S
ATOM	23302	O5*	G	A1106	189.614	145.282	2.663	1.00	84.56	A16S
ATOM	23303	C5*	G	A1106	189.201	144.833	3.949	1.00	84.56	A16S
ATOM	23304	C4*	G	A1106	189.482	143.376	4.115	1.00	84.56	A16S
ATOM	23305	O4*	G	A1106	188.681	142.615	3.183	1.00	84.56	A16S
ATOM	23306	C1*	G	A1106	189.377	141.440	2.823	1.00	84.56	A16S
ATOM	23307	N9	G	A1106	189.592	141.442	1.380	1.00	78.96	A16S
ATOM	23308	C4	G	A1106	189.932	140.347	0.626	1.00	78.96	A16S
ATOM	23309	N3	G	A1106	190.097	139.090	1.092	1.00	78.96	A16S
ATOM	23310	C2	G	A1106	190.428	138.255	0.133	1.00	78.96	A16S
ATOM	23311	N2	G	A1106	190.628	136.967	0.422	1.00	78.96	A16S
ATOM	23312	N1	G	A1106	190.585	138.622	-1.179	1.00	78.96	A16S
ATOM	23313	C6	G	A1106	190.412	139.910	-1.680	1.00	78.96	A16S
ATOM	23314	O6	G	A1106	190.564	140.134	-2.888	1.00	78.96	A16S
ATOM	23315	C5	G	A1106	190.063	140.817	-0.663	1.00	78.96	A16S
ATOM	23316	N7	G	A1106	189.804	142.181	-0.722	1.00	78.96	A16S
ATOM	23317	C8	G	A1106	189.524	142.509	0.511	1.00	78.96	A16S
ATOM	23318	C2*	G	A1106	190.712	141.449	3.564	1.00	84.56	A16S
ATOM	23319	O2*	G	A1106	190.601	140.721	4.769	1.00	84.56	A16S
ATOM	23320	C3*	G	A1106	190.897	142.930	3.828	1.00	84.56	A16S
ATOM	23321	O3*	G	A1106	191.765	143.148	4.914	1.00	84.56	A16S
ATOM	23322	P	C	A1107	193.319	143.415	4.625	1.00	82.80	A16S
ATOM	23323	O1P	C	A1107	193.945	143.850	5.901	1.00	65.90	A16S
ATOM	23324	O2P	C	A1107	193.400	144.300	3.412	1.00	65.90	A16S



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ATOM	23325	O5*	C	A1107	193.896	141.970	4.277	1.00	82.80	A16S
ATOM	23326	C5*	C	A1107	193.841	140.902	5.245	1.00	82.80	A16S
ATOM	23327	C4*	C	A1107	194.411	139.620	4.665	1.00	82.80	A16S
ATOM	23328	O4*	C	A1107	193.504	139.027	3.696	1.00	82.80	A16S
ATOM	23329	C1*	C	A1107	194.253	138.378	2.678	1.00	82.80	A16S
ATOM	23330	N1	C	A1107	194.022	139.099	1.413	1.00	65.90	A16S
ATOM	23331	C6	C	A1107	193.807	140.448	1.417	1.00	65.90	A16S
ATOM	23332	C2	C	A1107	194.020	138.387	0.199	1.00	65.90	A16S
ATOM	23333	O2	C	A1107	194.242	137.149	0.210	1.00	65.90	A16S
ATOM	23334	N3	C	A1107	193.776	139.065	-0.952	1.00	65.90	A16S
ATOM	23335	C4	C	A1107	193.543	140.380	-0.918	1.00	65.90	A16S
ATOM	23336	N4	C	A1107	193.277	141.007	-2.062	1.00	65.90	A16S
ATOM	23337	C5	C	A1107	193.564	141.116	0.291	1.00	65.90	A16S
ATOM	23338	C2*	C	A1107	195.722	138.461	3.076	1.00	82.80	A16S
ATOM	23339	O2*	C	A1107	196.077	137.322	3.841	1.00	82.80	A16S
ATOM	23340	C3*	C	A1107	195.729	139.725	3.917	1.00	82.80	A16S
ATOM	23341	O3*	C	A1107	196.846	139.752	4.770	1.00	82.80	A16S
ATOM	23342	P	G	A1108	198.123	140.631	4.364	1.00	85.24	A16S
ATOM	23343	O1P	G	A1108	199.171	140.009	5.222	1.00	75.48	A16S
ATOM	23344	O2P	G	A1108	197.830	142.089	4.481	1.00	75.48	A16S
ATOM	23345	O5*	G	A1108	198.395	140.298	2.821	1.00	85.24	A16S
ATOM	23346	C5*	G	A1108	199.048	139.069	2.462	1.00	85.24	A16S
ATOM	23347	C4*	G	A1108	199.190	138.894	0.957	1.00	85.24	A16S
ATOM	23348	O4*	G	A1108	197.903	138.881	0.284	1.00	85.24	A16S
ATOM	23349	C1*	G	A1108	198.105	139.104	-1.100	1.00	85.24	A16S
ATOM	23350	N9	G	A1108	197.348	140.273	-1.526	1.00	75.48	A16S
ATOM	23351	C4	G	A1108	197.297	140.791	-2.806	1.00	75.48	A16S
ATOM	23352	N3	G	A1108	197.896	140.272	-3.900	1.00	75.48	A16S
ATOM	23353	C2	G	A1108	197.689	141.013	-4.983	1.00	75.48	A16S
ATOM	23354	N2	G	A1108	198.202	140.637	-6.160	1.00	75.48	A16S
ATOM	23355	N1	G	A1108	196.962	142.174	-4.997	1.00	75.48	A16S
ATOM	23356	C6	G	A1108	196.331	142.732	-3.892	1.00	75.48	A16S
ATOM	23357	O6	G	A1108	195.689	143.790	-4.021	1.00	75.48	A16S
ATOM	23358	C5	G	A1108	196.540	141.937	-2.708	1.00	75.48	A16S
ATOM	23359	N7	G	A1108	196.096	142.120	-1.403	1.00	75.48	A16S
ATOM	23360	C8	G	A1108	196.591	141.104	-0.744	1.00	75.48	A16S
ATOM	23361	C2*	G	A1108	199.595	139.376	-1.290	1.00	85.24	A16S
ATOM	23362	O2*	G	A1108	200.215	138.146	-1.614	1.00	85.24	A16S
ATOM	23363	C3*	G	A1108	200.021	139.835	0.099	1.00	85.24	A16S
ATOM	23364	O3*	G	A1108	201.438	139.661	0.224	1.00	85.24	A16S
ATOM	23365	P	C	A1109	202.433	140.883	-0.166	1.00	72.44	A16S
ATOM	23366	O1P	C	A1109	203.823	140.334	-0.265	1.00	104.76	A16S
ATOM	23367	O2P	C	A1109	202.169	142.039	0.738	1.00	104.76	A16S
ATOM	23368	O5*	C	A1109	201.947	141.358	-1.612	1.00	72.44	A16S
ATOM	23369	C5*	C	A1109	202.288	140.612	-2.788	1.00	72.44	A16S
ATOM	23370	C4*	C	A1109	202.246	141.501	-4.000	1.00	72.44	A16S
ATOM	23371	O4*	C	A1109	200.880	141.885	-4.289	1.00	72.44	A16S
ATOM	23372	C1*	C	A1109	200.858	143.201	-4.832	1.00	72.44	A16S
ATOM	23373	N1	C	A1109	200.007	144.058	-3.974	1.00	104.76	A16S
ATOM	23374	C6	C	A1109	199.653	143.662	-2.713	1.00	104.76	A16S
ATOM	23375	C2	C	A1109	199.560	145.292	-4.474	1.00	104.76	A16S
ATOM	23376	O2	C	A1109	199.908	145.646	-5.604	1.00	104.76	A16S
ATOM	23377	N3	C	A1109	198.767	146.067	-3.706	1.00	104.76	A16S
ATOM	23378	C4	C	A1109	198.424	145.666	-2.481	1.00	104.76	A16S
ATOM	23379	N4	C	A1109	197.638	146.465	-1.762	1.00	104.76	A16S
ATOM	23380	C5	C	A1109	198.872	144.429	-1.941	1.00	104.76	A16S
ATOM	23381	C2*	C	A1109	202.307	143.686	-4.928	1.00	72.44	A16S
ATOM	23382	O2*	C	A1109	202.816	143.461	-6.230	1.00	72.44	A16S
ATOM	23383	C3*	C	A1109	202.991	142.817	-3.878	1.00	72.44	A16S
ATOM	23384	O3*	C	A1109	204.376	142.672	-4.131	1.00	72.44	A16S
ATOM	23385	P	A	A1110	205.426	143.490	-3.243	1.00	81.57	A16S
ATOM	23386	O1P	A	A1110	206.764	143.220	-3.823	1.00	91.14	A16S
ATOM	23387	O2P	A	A1110	205.163	143.179	-1.810	1.00	91.14	A16S
ATOM	23388	O5*	A	A1110	205.061	145.015	-3.514	1.00	81.57	A16S
ATOM	23389	C5*	A	A1110	205.368	145.634	-4.780	1.00	81.57	A16S
ATOM	23390	C4*	A	A1110	204.723	147.001	-4.868	1.00	81.57	A16S
ATOM	23391	O4*	A	A1110	203.283	146.837	-4.780	1.00	81.57	A16S
ATOM	23392	C1*	A	A1110	202.722	147.883	-4.005	1.00	81.57	A16S
ATOM	23393	N9	A	A1110	202.219	147.288	-2.763	1.00	91.14	A16S
ATOM	23394	C4	A	A1110	201.310	147.832	-1.891	1.00	91.14	A16S
ATOM	23395	N3	A	A1110	200.707	149.028	-1.981	1.00	91.14	A16S
ATOM	23396	C2	A	A1110	199.890	149.213	-0.957	1.00	91.14	A16S
ATOM	23397	N1	A	A1110	199.621	148.399	0.067	1.00	91.14	A16S
ATOM	23398	C6	A	A1110	200.239	147.201	0.121	1.00	91.14	A16S
ATOM	23399	N6	A	A1110	199.958	146.373	1.128	1.00	91.14	A16S
ATOM	23400	C5	A	A1110	201.137	146.890	-0.892	1.00	91.14	A16S
ATOM	23401	N7	A	A1110	201.933	145.777	-1.116	1.00	91.14	A16S



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ATOM	23402	C8	A	A1110	202.555	146.061	-2.232	1.00	91.14	A16S
ATOM	23403	C2*	A	A1110	203.837	148.897	-3.757	1.00	81.57	A16S
ATOM	23404	O2*	A	A1110	203.847	149.822	-4.832	1.00	81.57	A16S
ATOM	23405	C3*	A	A1110	205.063	147.994	-3.762	1.00	81.57	A16S
ATOM	23406	O3*	A	A1110	206.274	148.709	-4.001	1.00	81.57	A16S
ATOM	23407	P	A	A1111	207.253	149.037	-2.766	1.00	99.76	A16S
ATOM	23408	O1P	A	A1111	208.471	149.652	-3.336	1.00	89.87	A16S
ATOM	23409	O2P	A	A1111	207.373	147.844	-1.885	1.00	89.87	A16S
ATOM	23410	O5*	A	A1111	206.463	150.132	-1.923	1.00	99.76	A16S
ATOM	23411	C5*	A	A1111	206.125	151.426	-2.476	1.00	99.76	A16S
ATOM	23412	C4*	A	A1111	205.284	152.207	-1.482	1.00	99.76	A16S
ATOM	23413	O4*	A	A1111	203.995	151.550	-1.324	1.00	99.76	A16S
ATOM	23414	C1*	A	A1111	203.609	151.556	0.042	1.00	99.76	A16S
ATOM	23415	N9	A	A1111	203.585	150.162	0.504	1.00	89.87	A16S
ATOM	23416	C4	A	A1111	202.807	149.611	1.499	1.00	89.87	A16S
ATOM	23417	N3	A	A1111	201.895	150.228	2.265	1.00	89.87	A16S
ATOM	23418	C2	A	A1111	201.339	149.370	3.119	1.00	89.87	A16S
ATOM	23419	N1	A	A1111	201.572	148.068	3.283	1.00	89.87	A16S
ATOM	23420	C6	A	A1111	202.494	147.476	2.498	1.00	89.87	A16S
ATOM	23421	N6	A	A1111	202.726	146.171	2.656	1.00	89.87	A16S
ATOM	23422	C5	A	A1111	203.156	148.273	1.552	1.00	89.87	A16S
ATOM	23423	N7	A	A1111	204.134	147.981	0.612	1.00	89.87	A16S
ATOM	23424	C8	A	A1111	204.353	149.128	0.019	1.00	89.87	A16S
ATOM	23425	C2*	A	A1111	204.626	152.415	0.799	1.00	99.76	A16S
ATOM	23426	O2*	A	A1111	204.175	153.754	0.870	1.00	99.76	A16S
ATOM	23427	C3*	A	A1111	205.864	152.265	-0.075	1.00	99.76	A16S
ATOM	23428	O3*	A	A1111	206.797	153.325	0.085	1.00	99.76	A16S
ATOM	23429	P	C	A1112	208.104	153.102	1.000	1.00	98.66	A16S
ATOM	23430	O1P	C	A1112	209.006	154.236	0.674	1.00	92.77	A16S
ATOM	23431	O2P	C	A1112	208.604	151.702	0.864	1.00	92.77	A16S
ATOM	23432	O5*	C	A1112	207.570	153.274	2.497	1.00	98.66	A16S
ATOM	23433	C5*	C	A1112	207.054	154.542	2.970	1.00	98.66	A16S
ATOM	23434	C4*	C	A1112	206.214	154.341	4.212	1.00	98.66	A16S
ATOM	23435	O4*	C	A1112	205.104	153.464	3.898	1.00	98.66	A16S
ATOM	23436	C1*	C	A1112	204.817	152.640	5.012	1.00	98.66	A16S
ATOM	23437	N1	C	A1112	205.024	151.230	4.628	1.00	92.77	A16S
ATOM	23438	C6	C	A1112	205.697	150.898	3.485	1.00	92.77	A16S
ATOM	23439	C2	C	A1112	204.527	150.224	5.467	1.00	92.77	A16S
ATOM	23440	O2	C	A1112	203.892	150.543	6.478	1.00	92.77	A16S
ATOM	23441	N3	C	A1112	204.745	148.932	5.151	1.00	92.77	A16S
ATOM	23442	C4	C	A1112	205.410	148.620	4.041	1.00	92.77	A16S
ATOM	23443	N4	C	A1112	205.605	147.328	3.776	1.00	92.77	A16S
ATOM	23444	C5	C	A1112	205.908	149.618	3.155	1.00	92.77	A16S
ATOM	23445	C2*	C	A1112	205.738	153.067	6.152	1.00	98.66	A16S
ATOM	23446	O2*	C	A1112	205.048	154.018	6.931	1.00	98.66	A16S
ATOM	23447	C3*	C	A1112	206.904	153.681	5.395	1.00	98.66	A16S
ATOM	23448	O3*	C	A1112	207.559	154.646	6.195	1.00	98.66	A16S
ATOM	23449	P	C	A1113	209.158	154.766	6.150	1.00	87.64	A16S
ATOM	23450	O1P	C	A1113	209.521	155.997	6.885	1.00	99.93	A16S
ATOM	23451	O2P	C	A1113	209.578	154.616	4.736	1.00	99.93	A16S
ATOM	23452	O5*	C	A1113	209.676	153.503	6.969	1.00	87.64	A16S
ATOM	23453	C5*	C	A1113	209.697	153.494	8.405	1.00	87.64	A16S
ATOM	23454	C4*	C	A1113	210.512	152.322	8.892	1.00	87.64	A16S
ATOM	23455	O4*	C	A1113	209.858	151.087	8.491	1.00	87.64	A16S
ATOM	23456	C1*	C	A1113	210.820	150.148	8.016	1.00	87.64	A16S
ATOM	23457	N1	C	A1113	210.648	150.010	6.546	1.00	99.93	A16S
ATOM	23458	C6	C	A1113	209.976	150.965	5.830	1.00	99.93	A16S
ATOM	23459	C2	C	A1113	211.205	148.900	5.886	1.00	99.93	A16S
ATOM	23460	O2	C	A1113	211.779	148.024	6.550	1.00	99.93	A16S
ATOM	23461	N3	C	A1113	211.100	148.814	4.541	1.00	99.93	A16S
ATOM	23462	C4	C	A1113	210.463	149.770	3.856	1.00	99.93	A16S
ATOM	23463	N4	C	A1113	210.404	149.660	2.526	1.00	99.93	A16S
ATOM	23464	C5	C	A1113	209.863	150.886	4.502	1.00	99.93	A16S
ATOM	23465	C2*	C	A1113	212.191	150.730	8.341	1.00	87.64	A16S
ATOM	23466	O2*	C	A1113	212.628	150.306	9.621	1.00	87.64	A16S
ATOM	23467	C3*	C	A1113	211.889	152.217	8.264	1.00	87.64	A16S
ATOM	23468	O3*	C	A1113	212.861	153.018	8.884	1.00	87.64	A16S
ATOM	23469	P	C	A1114	214.067	153.589	7.994	1.00	104.90	A16S
ATOM	23470	O1P	C	A1114	214.704	154.687	8.771	1.00	88.92	A16S
ATOM	23471	O2P	C	A1114	213.529	153.869	6.628	1.00	88.92	A16S
ATOM	23472	O5*	C	A1114	215.071	152.355	7.909	1.00	104.90	A16S
ATOM	23473	C5*	C	A1114	215.412	151.610	9.088	1.00	104.90	A16S
ATOM	23474	C4*	C	A1114	216.387	150.515	8.747	1.00	104.90	A16S
ATOM	23475	O4*	C	A1114	215.716	149.480	7.984	1.00	104.90	A16S
ATOM	23476	C1*	C	A1114	216.586	148.986	6.980	1.00	104.90	A16S
ATOM	23477	N1	C	A1114	216.039	149.365	5.665	1.00	88.92	A16S
ATOM	23478	C6	C	A1114	215.160	150.405	5.544	1.00	88.92	A16S



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ATOM	23479	C2	C	A1114	216.431	148.649	4.541	1.00	88.92	A16S
ATOM	23480	O2	C	A1114	217.246	147.732	4.673	1.00	88.92	A16S
ATOM	23481	N3	C	A1114	215.917	148.977	3.333	1.00	88.92	A16S
ATOM	23482	C4	C	A1114	215.046	149.982	3.228	1.00	88.92	A16S
ATOM	23483	N4	C	A1114	214.548	150.261	2.022	1.00	88.92	A16S
ATOM	23484	C5	C	A1114	214.644	150.743	4.356	1.00	88.92	A16S
ATOM	23485	C2*	C	A1114	217.947	149.634	7.204	1.00104.90	A16S	
ATOM	23486	O2*	C	A1114	218.714	148.807	8.056	1.00104.90	A16S	
ATOM	23487	C3*	C	A1114	217.545	150.943	7.866	1.00104.90	A16S	
ATOM	23488	O3*	C	A1114	218.602	151.544	8.592	1.00104.90	A16S	
ATOM	23489	P	C	A1115	219.600	152.550	7.834	1.00118.96	A16S	
ATOM	23490	O1P	C	A1115	220.601	152.958	8.845	1.00	99.10	A16S
ATOM	23491	O2P	C	A1115	218.822	153.588	7.096	1.00	99.10	A16S
ATOM	23492	O5*	C	A1115	220.333	151.629	6.761	1.00118.96	A16S	
ATOM	23493	C5*	C	A1115	221.304	150.644	7.173	1.00118.96	A16S	
ATOM	23494	C4*	C	A1115	222.000	150.068	5.968	1.00118.96	A16S	
ATOM	23495	O4*	C	A1115	221.059	149.277	5.199	1.00118.96	A16S	
ATOM	23496	C1*	C	A1115	221.328	149.428	3.813	1.00118.96	A16S	
ATOM	23497	N1	C	A1115	220.167	150.055	3.162	1.00	99.10	A16S
ATOM	23498	C6	C	A1115	219.226	150.731	3.888	1.00	99.10	A16S
ATOM	23499	C2	C	A1115	220.055	149.969	1.768	1.00	99.10	A16S
ATOM	23500	O2	C	A1115	220.908	149.322	1.137	1.00	99.10	A16S
ATOM	23501	N3	C	A1115	219.024	150.589	1.147	1.00	99.10	A16S
ATOM	23502	C4	C	A1115	218.123	151.262	1.863	1.00	99.10	A16S
ATOM	23503	N4	C	A1115	217.131	151.873	1.209	1.00	99.10	A16S
ATOM	23504	C5	C	A1115	218.199	151.344	3.285	1.00	99.10	A16S
ATOM	23505	C2*	C	A1115	222.547	150.333	3.670	1.00118.96	A16S	
ATOM	23506	O2*	C	A1115	223.710	149.554	3.503	1.00118.96	A16S	
ATOM	23507	C3*	C	A1115	222.505	151.101	4.980	1.00118.96	A16S	
ATOM	23508	O3*	C	A1115	223.761	151.640	5.328	1.00118.96	A16S	
ATOM	23509	P	C	A1116	224.172	153.089	4.766	1.00	97.23	A16S
ATOM	23510	O1P	C	A1116	225.471	153.424	5.411	1.00	87.33	A16S
ATOM	23511	O2P	C	A1116	223.013	154.018	4.902	1.00	87.33	A16S
ATOM	23512	O5*	C	A1116	224.407	152.857	3.207	1.00	97.23	A16S
ATOM	23513	C5*	C	A1116	225.399	151.932	2.750	1.00	97.23	A16S
ATOM	23514	C4*	C	A1116	225.384	151.847	1.251	1.00	97.23	A16S
ATOM	23515	O4*	C	A1116	224.141	151.248	0.798	1.00	97.23	A16S
ATOM	23516	C1*	C	A1116	223.799	151.775	-0.476	1.00	97.23	A16S
ATOM	23517	N1	C	A1116	222.468	152.417	-0.411	1.00	87.33	A16S
ATOM	23518	C6	C	A1116	221.866	152.692	0.782	1.00	87.33	A16S
ATOM	23519	C2	C	A1116	221.838	152.774	-1.617	1.00	87.33	A16S
ATOM	23520	O2	C	A1116	222.377	152.466	-2.691	1.00	87.33	A16S
ATOM	23521	N3	C	A1116	220.662	153.437	-1.579	1.00	87.33	A16S
ATOM	23522	C4	C	A1116	220.103	153.730	-0.409	1.00	87.33	A16S
ATOM	23523	N4	C	A1116	218.961	154.412	-0.418	1.00	87.33	A16S
ATOM	23524	C5	C	A1116	220.695	153.341	0.828	1.00	87.33	A16S
ATOM	23525	C2*	C	A1116	224.873	152.797	-0.853	1.00	97.23	A16S
ATOM	23526	O2*	C	A1116	225.832	152.221	-1.718	1.00	97.23	A16S
ATOM	23527	C3*	C	A1116	225.434	153.169	0.513	1.00	97.23	A16S
ATOM	23528	O3*	C	A1116	226.736	153.730	0.446	1.00	97.23	A16S
ATOM	23529	P	G	A1117	226.921	155.325	0.621	1.00	95.06	A16S
ATOM	23530	O1P	G	A1117	228.301	155.527	1.141	1.00	90.89	A16S
ATOM	23531	O2P	G	A1117	225.750	155.869	1.376	1.00	90.89	A16S
ATOM	23532	O5*	G	A1117	226.827	155.904	-0.858	1.00	95.06	A16S
ATOM	23533	C5*	G	A1117	225.701	155.583	-1.653	1.00	95.06	A16S
ATOM	23534	C4*	G	A1117	225.842	156.121	-3.040	1.00	95.06	A16S
ATOM	23535	O4*	G	A1117	224.733	155.551	-3.765	1.00	95.06	A16S
ATOM	23536	C1*	G	A1117	223.936	156.573	-4.306	1.00	95.06	A16S
ATOM	23537	N9	G	A1117	222.724	156.655	-3.489	1.00	90.89	A16S
ATOM	23538	C4	G	A1117	221.448	156.912	-3.937	1.00	90.89	A16S
ATOM	23539	N3	G	A1117	221.084	157.120	-5.223	1.00	90.89	A16S
ATOM	23540	C2	G	A1117	219.787	157.354	-5.337	1.00	90.89	A16S
ATOM	23541	N2	G	A1117	219.250	157.570	-6.553	1.00	90.89	A16S
ATOM	23542	N1	G	A1117	218.922	157.392	-4.269	1.00	90.89	A16S
ATOM	23543	C6	G	A1117	219.277	157.184	-2.942	1.00	90.89	A16S
ATOM	23544	O6	G	A1117	218.421	157.254	-2.061	1.00	90.89	A16S
ATOM	23545	C5	G	A1117	220.657	156.916	-2.807	1.00	90.89	A16S
ATOM	23546	N7	G	A1117	221.411	156.641	-1.675	1.00	90.89	A16S
ATOM	23547	C8	G	A1117	222.628	156.495	-2.124	1.00	90.89	A16S
ATOM	23548	C2*	G	A1117	224.807	157.834	-4.353	1.00	95.06	A16S
ATOM	23549	O2*	G	A1117	225.513	157.878	-5.580	1.00	95.06	A16S
ATOM	23550	C3*	G	A1117	225.706	157.636	-3.133	1.00	95.06	A16S
ATOM	23551	O3*	G	A1117	226.996	158.246	-3.306	1.00	95.06	A16S
ATOM	23552	P	C	A1118	227.455	159.479	-2.366	1.00	97.76	A16S
ATOM	23553	O1P	C	A1118	228.896	159.688	-2.636	1.00	99.61	A16S
ATOM	23554	O2P	C	A1118	227.006	159.235	-0.967	1.00	99.61	A16S
ATOM	23555	O5*	C	A1118	226.661	160.724	-2.961	1.00	97.76	A16S



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ATOM	23556	C5*	C	A1118	226.987	161.259	-4.261	1.00	97.76	A16S
ATOM	23557	C4*	C	A1118	226.169	162.507	-4.540	1.00	97.76	A16S
ATOM	23558	O4*	C	A1118	224.785	162.144	-4.794	1.00	97.76	A16S
ATOM	23559	C1*	C	A1118	223.919	163.104	-4.203	1.00	97.76	A16S
ATOM	23560	N1	C	A1118	223.161	162.436	-3.124	1.00	99.61	A16S
ATOM	23561	C6	C	A1118	223.647	161.306	-2.526	1.00	99.61	A16S
ATOM	23562	C2	C	A1118	221.944	162.983	-2.705	1.00	99.61	A16S
ATOM	23563	O2	C	A1118	221.518	164.003	-3.263	1.00	99.61	A16S
ATOM	23564	N3	C	A1118	221.266	162.388	-1.701	1.00	99.61	A16S
ATOM	23565	C4	C	A1118	221.761	161.295	-1.117	1.00	99.61	A16S
ATOM	23566	N4	C	A1118	221.069	160.751	-0.115	1.00	99.61	A16S
ATOM	23567	C5	C	A1118	222.988	160.712	-1.530	1.00	99.61	A16S
ATOM	23568	C2*	C	A1118	224.786	164.244	-3.667	1.00	97.76	A16S
ATOM	23569	O2*	C	A1118	224.881	165.269	-4.639	1.00	97.76	A16S
ATOM	23570	C3*	C	A1118	226.102	163.520	-3.401	1.00	97.76	A16S
ATOM	23571	O3*	C	A1118	227.231	164.388	-3.357	1.00	97.76	A16S
ATOM	23572	P	C	A1119	227.757	164.924	-1.938	1.00112.27		A16S
ATOM	23573	O1P	C	A1119	229.066	165.563	-2.187	1.00	94.81	A16S
ATOM	23574	O2P	C	A1119	227.664	163.822	-0.948	1.00	94.81	A16S
ATOM	23575	O5*	C	A1119	226.687	166.044	-1.553	1.00112.27		A16S
ATOM	23576	C5*	C	A1119	226.473	167.196	-2.408	1.00112.27		A16S
ATOM	23577	C4*	C	A1119	225.282	168.016	-1.933	1.00112.27		A16S
ATOM	23578	O4*	C	A1119	224.047	167.268	-2.129	1.00112.27		A16S
ATOM	23579	C1*	C	A1119	223.140	167.546	-1.068	1.00112.27		A16S
ATOM	23580	N1	C	A1119	222.908	166.298	-0.300	1.00	94.81	A16S
ATOM	23581	C6	C	A1119	223.685	165.189	-0.511	1.00	94.81	A16S
ATOM	23582	C2	C	A1119	221.886	166.264	0.665	1.00	94.81	A16S
ATOM	23583	O2	C	A1119	221.176	167.268	0.829	1.00	94.81	A16S
ATOM	23584	N3	C	A1119	221.699	165.133	1.392	1.00	94.81	A16S
ATOM	23585	C4	C	A1119	222.472	164.065	1.180	1.00	94.81	A16S
ATOM	23586	N4	C	A1119	222.262	162.977	1.922	1.00	94.81	A16S
ATOM	23587	C5	C	A1119	223.501	164.064	0.198	1.00	94.81	A16S
ATOM	23588	C2*	C	A1119	223.775	168.636	-0.200	1.00112.27		A16S
ATOM	23589	O2*	C	A1119	223.333	169.910	-0.633	1.00112.27		A16S
ATOM	23590	C3*	C	A1119	225.261	168.412	-0.460	1.00112.27		A16S
ATOM	23591	O3*	C	A1119	226.043	169.571	-0.170	1.00112.27		A16S
ATOM	23592	P	G	A1120	226.598	169.807	1.330	1.00152.52		A16S
ATOM	23593	O1P	G	A1120	227.599	170.902	1.222	1.00115.27		A16S
ATOM	23594	O2P	G	A1120	226.991	168.511	1.970	1.00115.27		A16S
ATOM	23595	O5*	G	A1120	225.329	170.352	2.130	1.00152.52		A16S
ATOM	23596	C5*	G	A1120	224.674	171.580	1.742	1.00152.52		A16S
ATOM	23597	C4*	G	A1120	223.484	171.856	2.637	1.00152.52		A16S
ATOM	23598	O4*	G	A1120	222.524	170.777	2.502	1.00152.52		A16S
ATOM	23599	C1*	G	A1120	221.878	170.553	3.741	1.00152.52		A16S
ATOM	23600	N9	G	A1120	222.148	169.183	4.173	1.00115.27		A16S
ATOM	23601	C4	G	A1120	221.476	168.505	5.164	1.00115.27		A16S
ATOM	23602	N3	G	A1120	220.440	168.983	5.888	1.00115.27		A16S
ATOM	23603	C2	G	A1120	220.009	168.105	6.780	1.00115.27		A16S
ATOM	23604	N2	G	A1120	218.977	168.420	7.580	1.00115.27		A16S
ATOM	23605	N1	G	A1120	220.556	166.856	6.954	1.00115.27		A16S
ATOM	23606	C6	G	A1120	221.624	166.342	6.225	1.00115.27		A16S
ATOM	23607	O6	G	A1120	222.046	165.207	6.476	1.00115.27		A16S
ATOM	23608	C5	G	A1120	222.094	167.275	5.250	1.00115.27		A16S
ATOM	23609	N7	G	A1120	223.121	167.173	4.320	1.00115.27		A16S
ATOM	23610	C8	G	A1120	223.117	168.324	3.704	1.00115.27		A16S
ATOM	23611	C2*	G	A1120	222.406	171.588	4.737	1.00152.52		A16S
ATOM	23612	O2*	G	A1120	221.519	172.687	4.783	1.00152.52		A16S
ATOM	23613	C3*	G	A1120	223.759	171.942	4.132	1.00152.52		A16S
ATOM	23614	O3*	G	A1120	224.199	173.242	4.525	1.00152.52		A16S
ATOM	23615	P	U	A1121	225.009	173.432	5.907	1.00134.42		A16S
ATOM	23616	O1P	U	A1121	225.415	174.860	5.979	1.00135.32		A16S
ATOM	23617	O2P	U	A1121	226.041	172.374	6.034	1.00135.32		A16S
ATOM	23618	O5*	U	A1121	223.913	173.169	7.030	1.00134.42		A16S
ATOM	23619	C5*	U	A1121	222.795	174.059	7.193	1.00134.42		A16S
ATOM	23620	C4*	U	A1121	221.957	173.619	8.361	1.00134.42		A16S
ATOM	23621	O4*	U	A1121	221.306	172.364	8.039	1.00134.42		A16S
ATOM	23622	C1*	U	A1121	221.260	171.539	9.194	1.00134.42		A16S
ATOM	23623	N1	U	A1121	221.979	170.282	8.919	1.00135.32		A16S
ATOM	23624	C6	U	A1121	222.963	170.205	7.951	1.00135.32		A16S
ATOM	23625	C2	U	A1121	221.643	169.165	9.678	1.00135.32		A16S
ATOM	23626	O2	U	A1121	220.780	169.179	10.543	1.00135.32		A16S
ATOM	23627	N3	U	A1121	222.359	168.031	9.387	1.00135.32		A16S
ATOM	23628	C4	U	A1121	223.353	167.895	8.444	1.00135.32		A16S
ATOM	23629	O4	U	A1121	223.932	166.818	8.337	1.00135.32		A16S
ATOM	23630	C5	U	A1121	223.641	169.081	7.698	1.00135.32		A16S
ATOM	23631	C2*	U	A1121	221.884	172.316	10.357	1.00134.42		A16S
ATOM	23632	O2*	U	A1121	220.869	172.893	11.155	1.00134.42		A16S



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ATOM	23633	C3* U	A1121	222.756	173.328	9.620	1.00134.42	A16S
ATOM	23634	O3* U	A1121	223.025	174.501	10.378	1.00134.42	A16S
ATOM	23635	P U	A1122	224.362	174.579	11.271	1.00126.24	A16S
ATOM	23636	O1P U	A1122	224.402	175.924	11.906	1.00119.56	A16S
ATOM	23637	O2P U	A1122	225.504	174.126	10.433	1.00119.56	A16S
ATOM	23638	O5* U	A1122	224.119	173.499	12.419	1.00126.24	A16S
ATOM	23639	C5* U	A1122	223.028	173.648	13.343	1.00126.24	A16S
ATOM	23640	C4* U	A1122	222.907	172.428	14.217	1.00126.24	A16S
ATOM	23641	O4* U	A1122	222.493	171.286	13.423	1.00126.24	A16S
ATOM	23642	C1* U	A1122	223.084	170.103	13.949	1.00126.24	A16S
ATOM	23643	N1 U	A1122	223.859	169.429	12.888	1.00119.56	A16S
ATOM	23644	C6 U	A1122	224.252	170.095	11.744	1.00119.56	A16S
ATOM	23645	C2 U	A1122	224.193	168.086	13.076	1.00119.56	A16S
ATOM	23646	O2 U	A1122	223.880	167.446	14.072	1.00119.56	A16S
ATOM	23647	N3 U	A1122	224.914	167.523	12.052	1.00119.56	A16S
ATOM	23648	C4 U	A1122	225.330	168.135	10.893	1.00119.56	A16S
ATOM	23649	O4 U	A1122	225.930	167.476	10.051	1.00119.56	A16S
ATOM	23650	C5 U	A1122	224.958	169.510	10.773	1.00119.56	A16S
ATOM	23651	C2* U	A1122	223.937	170.501	15.160	1.00126.24	A16S
ATOM	23652	O2* U	A1122	223.240	170.266	16.370	1.00126.24	A16S
ATOM	23653	C3* U	A1122	224.190	171.981	14.892	1.00126.24	A16S
ATOM	23654	O3* U	A1122	224.448	172.698	16.087	1.00126.24	A16S
ATOM	23655	P A	A1123	225.960	172.852	16.609	1.00170.41	A16S
ATOM	23656	O1P A	A1123	225.864	173.435	17.972	1.00119.93	A16S
ATOM	23657	O2P A	A1123	226.775	173.540	15.566	1.00119.93	A16S
ATOM	23658	O5* A	A1123	226.482	171.353	16.746	1.00170.41	A16S
ATOM	23659	C5* A	A1123	226.304	170.621	17.970	1.00170.41	A16S
ATOM	23660	C4* A	A1123	227.201	169.408	17.996	1.00170.41	A16S
ATOM	23661	O4* A	A1123	226.730	168.428	17.033	1.00170.41	A16S
ATOM	23662	C1* A	A1123	227.831	167.672	16.550	1.00170.41	A16S
ATOM	23663	N9 A	A1123	227.921	167.808	15.093	1.00119.93	A16S
ATOM	23664	C4 A	A1123	228.352	166.832	14.224	1.00119.93	A16S
ATOM	23665	N3 A	A1123	228.703	165.570	14.523	1.00119.93	A16S
ATOM	23666	C2 A	A1123	229.100	164.926	13.434	1.00119.93	A16S
ATOM	23667	N1 A	A1123	229.190	165.366	12.174	1.00119.93	A16S
ATOM	23668	C6 A	A1123	228.834	166.639	11.906	1.00119.93	A16S
ATOM	23669	N6 A	A1123	228.945	167.081	10.651	1.00119.93	A16S
ATOM	23670	C5 A	A1123	228.377	167.425	12.975	1.00119.93	A16S
ATOM	23671	N7 A	A1123	227.928	168.736	13.045	1.00119.93	A16S
ATOM	23672	C8 A	A1123	227.661	168.911	14.317	1.00119.93	A16S
ATOM	23673	C2* A	A1123	229.097	168.211	17.220	1.00170.41	A16S
ATOM	23674	O2* A	A1123	229.444	167.383	18.315	1.00170.41	A16S
ATOM	23675	C3* A	A1123	228.663	169.617	17.624	1.00170.41	A16S
ATOM	23676	O3* A	A1123	229.454	170.145	18.685	1.00170.41	A16S
ATOM	23677	P G	A1124	230.258	171.526	18.470	1.00177.66	A16S
ATOM	23678	O1P G	A1124	230.313	172.204	19.787	1.00151.47	A16S
ATOM	23679	O2P G	A1124	229.680	172.239	17.298	1.00151.47	A16S
ATOM	23680	O5* G	A1124	231.743	171.099	18.084	1.00177.66	A16S
ATOM	23681	C5* G	A1124	232.562	170.307	18.971	1.00177.66	A16S
ATOM	23682	C4* G	A1124	232.845	168.973	18.330	1.00177.66	A16S
ATOM	23683	O4* G	A1124	232.212	168.968	17.035	1.00177.66	A16S
ATOM	23684	C1* G	A1124	232.963	168.176	16.147	1.00177.66	A16S
ATOM	23685	N9 G	A1124	232.958	168.816	14.829	1.00151.47	A16S
ATOM	23686	C4 G	A1124	233.014	168.177	13.605	1.00151.47	A16S
ATOM	23687	N3 G	A1124	233.179	166.848	13.407	1.00151.47	A16S
ATOM	23688	C2 G	A1124	233.156	166.534	12.124	1.00151.47	A16S
ATOM	23689	N2 G	A1124	233.327	165.260	11.755	1.00151.47	A16S
ATOM	23690	N1 G	A1124	232.969	167.448	11.110	1.00151.47	A16S
ATOM	23691	C6 G	A1124	232.795	168.821	11.287	1.00151.47	A16S
ATOM	23692	O6 G	A1124	232.626	169.559	10.304	1.00151.47	A16S
ATOM	23693	C5 G	A1124	232.837	169.175	12.663	1.00151.47	A16S
ATOM	23694	N7 G	A1124	232.721	170.417	13.275	1.00151.47	A16S
ATOM	23695	C8 G	A1124	232.814	170.160	14.554	1.00151.47	A16S
ATOM	23696	C2* G	A1124	234.260	167.727	16.838	1.00177.66	A16S
ATOM	23697	O2* G	A1124	234.144	166.345	17.133	1.00177.66	A16S
ATOM	23698	C3* G	A1124	234.308	168.619	18.091	1.00177.66	A16S
ATOM	23699	O3* G	A1124	234.764	167.880	19.240	1.00177.66	A16S
ATOM	23700	P U	A1125	236.316	167.897	19.673	1.00198.84	A16S
ATOM	23701	O1P U	A1125	236.311	168.137	21.135	1.00 97.56	A16S
ATOM	23702	O2P U	A1125	237.046	168.846	18.782	1.00 97.56	A16S
ATOM	23703	O5* U	A1125	236.809	166.377	19.487	1.00198.84	A16S
ATOM	23704	C5* U	A1125	237.540	165.920	18.302	1.00198.84	A16S
ATOM	23705	C4* U	A1125	238.846	165.234	18.701	1.00198.84	A16S
ATOM	23706	O4* U	A1125	239.238	165.767	19.992	1.00198.84	A16S
ATOM	23707	C1* U	A1125	239.918	164.777	20.735	1.00198.84	A16S
ATOM	23708	N1 U	A1125	239.204	164.551	21.995	1.00 97.56	A16S
ATOM	23709	C6 U	A1125	237.922	165.028	22.194	1.00 97.56	A16S



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ATOM	23710	C2	U	A1125	239.867	163.840	22.983	1.00	97.56	A16S
ATOM	23711	O2	U	A1125	240.983	163.372	22.825	1.00	97.56	A16S
ATOM	23712	N3	U	A1125	239.162	163.683	24.155	1.00	97.56	A16S
ATOM	23713	C4	U	A1125	237.876	164.136	24.425	1.00	97.56	A16S
ATOM	23714	O4	U	A1125	237.352	163.876	25.516	1.00	97.56	A16S
ATOM	23715	C5	U	A1125	237.252	164.848	23.340	1.00	97.56	A16S
ATOM	23716	C2*	U	A1125	240.021	163.512	19.888	1.00198.84		A16S
ATOM	23717	O2*	U	A1125	241.317	163.464	19.332	1.00198.84		A16S
ATOM	23718	C3*	U	A1125	238.895	163.706	18.870	1.00198.84		A16S
ATOM	23719	O3*	U	A1125	239.219	163.027	17.630	1.00198.84		A16S
ATOM	23720	P	U	A1126	239.632	161.446	17.625	1.00187.24		A16S
ATOM	23721	O1P	U	A1126	238.402	160.670	17.947	1.00198.84		A16S
ATOM	23722	O2P	U	A1126	240.875	161.202	18.406	1.00198.84		A16S
ATOM	23723	O5*	U	A1126	240.035	161.162	16.105	1.00187.24		A16S
ATOM	23724	C5*	U	A1126	240.112	159.819	15.581	1.00187.24		A16S
ATOM	23725	C4*	U	A1126	239.448	159.764	14.226	1.00187.24		A16S
ATOM	23726	O4*	U	A1126	238.092	160.252	14.371	1.00187.24		A16S
ATOM	23727	C1*	U	A1126	237.731	161.018	13.236	1.00187.24		A16S
ATOM	23728	N1	U	A1126	237.253	162.343	13.678	1.00198.84		A16S
ATOM	23729	C6	U	A1126	237.606	162.871	14.907	1.00198.84		A16S
ATOM	23730	C2	U	A1126	236.414	163.051	12.820	1.00198.84		A16S
ATOM	23731	O2	U	A1126	236.087	162.643	11.714	1.00198.84		A16S
ATOM	23732	N3	U	A1126	235.973	164.259	13.306	1.00198.84		A16S
ATOM	23733	C4	U	A1126	236.277	164.827	14.525	1.00198.84		A16S
ATOM	23734	O4	U	A1126	235.769	165.903	14.828	1.00198.84		A16S
ATOM	23735	C5	U	A1126	237.157	164.054	15.345	1.00198.84		A16S
ATOM	23736	C2*	U	A1126	238.907	161.013	12.258	1.00187.24		A16S
ATOM	23737	O2*	U	A1126	238.677	160.039	11.262	1.00187.24		A16S
ATOM	23738	C3*	U	A1126	240.078	160.656	13.166	1.00187.24		A16S
ATOM	23739	O3*	U	A1126	241.056	159.927	12.440	1.00187.24		A16S
ATOM	23740	P	G	A1127	242.481	160.591	12.128	1.00100.54		A16S
ATOM	23741	O1P	G	A1127	243.279	159.610	11.353	1.00197.33		A16S
ATOM	23742	O2P	G	A1127	243.009	161.122	13.410	1.00197.33		A16S
ATOM	23743	O5*	G	A1127	242.161	161.809	11.156	1.00100.54		A16S
ATOM	23744	C5*	G	A1127	241.761	161.576	9.799	1.00100.54		A16S
ATOM	23745	C4*	G	A1127	241.072	162.798	9.249	1.00100.54		A16S
ATOM	23746	O4*	G	A1127	239.939	163.112	10.094	1.00100.54		A16S
ATOM	23747	C1*	G	A1127	239.794	164.517	10.197	1.00100.54		A16S
ATOM	23748	N9	G	A1127	239.821	164.882	11.611	1.00197.33		A16S
ATOM	23749	C4	G	A1127	239.663	166.140	12.117	1.00197.33		A16S
ATOM	23750	N3	G	A1127	239.484	167.256	11.392	1.00197.33		A16S
ATOM	23751	C2	G	A1127	239.348	168.316	12.154	1.00197.33		A16S
ATOM	23752	N2	G	A1127	239.156	169.506	11.585	1.00197.33		A16S
ATOM	23753	N1	G	A1127	239.389	168.284	13.529	1.00197.33		A16S
ATOM	23754	C6	G	A1127	239.573	167.139	14.296	1.00197.33		A16S
ATOM	23755	O6	G	A1127	239.587	167.213	15.529	1.00197.33		A16S
ATOM	23756	C5	G	A1127	239.721	165.997	13.487	1.00197.33		A16S
ATOM	23757	N7	G	A1127	239.929	164.673	13.835	1.00197.33		A16S
ATOM	23758	C8	G	A1127	239.986	164.048	12.693	1.00197.33		A16S
ATOM	23759	C2*	G	A1127	240.882	165.182	9.349	1.00100.54		A16S
ATOM	23760	O2*	G	A1127	240.329	165.615	8.118	1.00100.54		A16S
ATOM	23761	C3*	G	A1127	241.918	164.060	9.236	1.00100.54		A16S
ATOM	23762	O3*	G	A1127	242.671	164.134	8.031	1.00100.54		A16S
ATOM	23763	P	C	A1128	244.217	163.690	8.023	1.00126.51		A16S
ATOM	23764	O1P	C	A1128	244.271	162.339	7.416	1.00159.04		A16S
ATOM	23765	O2P	C	A1128	244.811	163.905	9.369	1.00159.04		A16S
ATOM	23766	O5*	C	A1128	244.875	164.715	6.994	1.00126.51		A16S
ATOM	23767	C5*	C	A1128	244.100	165.272	5.907	1.00126.51		A16S
ATOM	23768	C4*	C	A1128	243.862	166.751	6.134	1.00126.51		A16S
ATOM	23769	O4*	C	A1128	243.288	166.927	7.450	1.00126.51		A16S
ATOM	23770	C1*	C	A1128	243.685	168.179	7.971	1.00126.51		A16S
ATOM	23771	N1	C	A1128	244.097	168.027	9.379	1.00159.04		A16S
ATOM	23772	C6	C	A1128	244.460	166.809	9.887	1.00159.04		A16S
ATOM	23773	C2	C	A1128	244.082	169.158	10.205	1.00159.04		A16S
ATOM	23774	O2	C	A1128	243.797	170.266	9.709	1.00159.04		A16S
ATOM	23775	N3	C	A1128	244.385	169.020	11.519	1.00159.04		A16S
ATOM	23776	C4	C	A1128	244.713	167.821	12.007	1.00159.04		A16S
ATOM	23777	N4	C	A1128	244.990	167.731	13.309	1.00159.04		A16S
ATOM	23778	C5	C	A1128	244.770	166.662	11.182	1.00159.04		A16S
ATOM	23779	C2*	C	A1128	244.680	168.831	7.011	1.00126.51		A16S
ATOM	23780	O2*	C	A1128	243.995	169.831	6.297	1.00126.51		A16S
ATOM	23781	C3*	C	A1128	245.085	167.667	6.108	1.00126.51		A16S
ATOM	23782	O3*	C	A1128	245.288	168.129	4.765	1.00126.51		A16S
ATOM	23783	P	C	A1129	246.576	169.016	4.397	1.00198.84		A16S
ATOM	23784	O1P	C	A1129	246.522	169.206	2.935	1.00196.93		A16S
ATOM	23785	O2P	C	A1129	247.781	168.398	5.017	1.00196.93		A16S
ATOM	23786	O5*	C	A1129	246.294	170.445	5.049	1.00198.84		A16S



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ATOM	23787	C5*	C	A1129	247.129	170.976	6.110	1.00198.84	A16S
ATOM	23788	C4*	C	A1129	247.630	172.363	5.748	1.00198.84	A16S
ATOM	23789	O4*	C	A1129	248.113	173.033	6.945	1.00198.84	A16S
ATOM	23790	C1*	C	A1129	249.152	173.939	6.598	1.00198.84	A16S
ATOM	23791	N1	C	A1129	250.271	173.829	7.569	1.00196.93	A16S
ATOM	23792	C6	C	A1129	250.591	172.632	8.152	1.00196.93	A16S
ATOM	23793	C2	C	A1129	251.019	174.992	7.885	1.00196.93	A16S
ATOM	23794	O2	C	A1129	250.712	176.080	7.360	1.00196.93	A16S
ATOM	23795	N3	C	A1129	252.052	174.894	8.755	1.00196.93	A16S
ATOM	23796	C4	C	A1129	252.355	173.716	9.307	1.00196.93	A16S
ATOM	23797	N4	C	A1129	253.390	173.671	10.149	1.00196.93	A16S
ATOM	23798	C5	C	A1129	251.613	172.532	9.017	1.00196.93	A16S
ATOM	23799	C2*	C	A1129	249.506	173.748	5.117	1.00198.84	A16S
ATOM	23800	O2*	C	A1129	249.113	174.900	4.398	1.00198.84	A16S
ATOM	23801	C3*	C	A1129	248.800	172.426	4.771	1.00198.84	A16S
ATOM	23802	O3*	C	A1129	248.391	172.192	3.400	1.00198.84	A16S
ATOM	23803	P	A	A1130	247.855	173.400	2.462	1.00165.24	A16S
ATOM	23804	O1P	A	A1130	248.946	173.820	1.532	1.00136.51	A16S
ATOM	23805	O2P	A	A1130	247.176	174.413	3.317	1.00136.51	A16S
ATOM	23806	O5*	A	A1130	246.707	172.718	1.591	1.00165.24	A16S
ATOM	23807	C5*	A	A1130	245.603	172.058	2.239	1.00165.24	A16S
ATOM	23808	C4*	A	A1130	244.338	172.869	2.086	1.00165.24	A16S
ATOM	23809	O4*	A	A1130	243.345	172.287	2.960	1.00165.24	A16S
ATOM	23810	C1*	A	A1130	242.578	173.310	3.561	1.00165.24	A16S
ATOM	23811	N9	A	A1130	242.715	173.183	5.009	1.00136.51	A16S
ATOM	23812	C4	A	A1130	241.953	173.814	5.963	1.00136.51	A16S
ATOM	23813	N3	A	A1130	240.972	174.711	5.761	1.00136.51	A16S
ATOM	23814	C2	A	A1130	240.437	175.086	6.919	1.00136.51	A16S
ATOM	23815	N1	A	A1130	240.742	174.691	8.163	1.00136.51	A16S
ATOM	23816	C6	A	A1130	241.729	173.784	8.332	1.00136.51	A16S
ATOM	23817	N6	A	A1130	242.018	173.376	9.572	1.00136.51	A16S
ATOM	23818	C5	A	A1130	242.388	173.317	7.181	1.00136.51	A16S
ATOM	23819	N7	A	A1130	243.432	172.421	7.000	1.00136.51	A16S
ATOM	23820	C8	A	A1130	243.594	172.386	5.698	1.00136.51	A16S
ATOM	23821	C2*	A	A1130	243.031	174.655	2.996	1.00165.24	A16S
ATOM	23822	O2*	A	A1130	242.144	175.038	1.965	1.00165.24	A16S
ATOM	23823	C3*	A	A1130	244.439	174.332	2.509	1.00165.24	A16S
ATOM	23824	O3*	A	A1130	244.790	175.141	1.382	1.00165.24	A16S
ATOM	23825	P	G	A1131	245.660	176.491	1.574	1.00195.77	A16S
ATOM	23826	O1P	G	A1131	245.184	177.452	0.532	1.00158.07	A16S
ATOM	23827	O2P	G	A1131	247.102	176.131	1.624	1.00158.07	A16S
ATOM	23828	O5*	G	A1131	245.235	177.071	3.000	1.00195.77	A16S
ATOM	23829	C5*	G	A1131	245.034	178.486	3.177	1.00195.77	A16S
ATOM	23830	C4*	G	A1131	245.492	178.927	4.545	1.00195.77	A16S
ATOM	23831	O4*	G	A1131	244.597	178.411	5.562	1.00195.77	A16S
ATOM	23832	C1*	G	A1131	245.318	178.213	6.765	1.00195.77	A16S
ATOM	23833	N9	G	A1131	245.244	176.809	7.130	1.00158.07	A16S
ATOM	23834	C4	G	A1131	245.124	176.307	8.400	1.00158.07	A16S
ATOM	23835	N3	G	A1131	244.996	177.033	9.532	1.00158.07	A16S
ATOM	23836	C2	G	A1131	244.933	176.263	10.608	1.00158.07	A16S
ATOM	23837	N2	G	A1131	244.805	176.817	11.826	1.00158.07	A16S
ATOM	23838	N1	G	A1131	244.992	174.890	10.572	1.00158.07	A16S
ATOM	23839	C6	G	A1131	245.124	174.121	9.419	1.00158.07	A16S
ATOM	23840	O6	G	A1131	245.175	172.884	9.499	1.00158.07	A16S
ATOM	23841	C5	G	A1131	245.189	174.937	8.257	1.00158.07	A16S
ATOM	23842	N7	G	A1131	245.315	174.587	6.919	1.00158.07	A16S
ATOM	23843	C8	G	A1131	245.332	175.728	6.289	1.00158.07	A16S
ATOM	23844	C2*	G	A1131	246.776	178.594	6.512	1.00195.77	A16S
ATOM	23845	O2*	G	A1131	247.018	179.893	7.007	1.00195.77	A16S
ATOM	23846	C3*	G	A1131	246.873	178.479	4.995	1.00195.77	A16S
ATOM	23847	O3*	G	A1131	247.912	179.293	4.466	1.00195.77	A16S
ATOM	23848	P	C	A1132	249.449	178.883	4.715	1.00195.06	A16S
ATOM	23849	O1P	C	A1132	250.256	179.603	3.696	1.00175.56	A16S
ATOM	23850	O2P	C	A1132	249.545	177.408	4.809	1.00175.56	A16S
ATOM	23851	O5*	C	A1132	249.779	179.484	6.156	1.00195.06	A16S
ATOM	23852	C5*	C	A1132	249.799	180.912	6.377	1.00195.06	A16S
ATOM	23853	C4*	C	A1132	250.031	181.227	7.841	1.00195.06	A16S
ATOM	23854	O4*	C	A1132	248.895	180.794	8.635	1.00195.06	A16S
ATOM	23855	C1*	C	A1132	249.337	180.410	9.928	1.00195.06	A16S
ATOM	23856	N1	C	A1132	248.928	179.014	10.198	1.00175.56	A16S
ATOM	23857	C6	C	A1132	248.661	178.142	9.178	1.00175.56	A16S
ATOM	23858	C2	C	A1132	248.834	178.584	11.538	1.00175.56	A16S
ATOM	23859	O2	C	A1132	249.065	179.393	12.453	1.00175.56	A16S
ATOM	23860	N3	C	A1132	248.496	177.300	11.798	1.00175.56	A16S
ATOM	23861	C4	C	A1132	248.256	176.457	10.792	1.00175.56	A16S
ATOM	23862	N4	C	A1132	247.946	175.196	11.099	1.00175.56	A16S
ATOM	23863	C5	C	A1132	248.327	176.868	9.427	1.00175.56	A16S



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ATOM	23864	C2* C	A1132	250.856	180.592	9.981	1.00195.06	A16S
ATOM	23865	O2* C	A1132	251.174	181.812	10.619	1.00195.06	A16S
ATOM	23866	C3* C	A1132	251.230	180.565	8.503	1.00195.06	A16S
ATOM	23867	O3* C	A1132	252.449	181.257	8.252	1.00195.06	A16S
ATOM	23868	P G	A1133	253.841	180.445	8.261	1.00171.38	A16S
ATOM	23869	O1P G	A1133	254.848	181.280	7.554	1.00198.51	A16S
ATOM	23870	O2P G	A1133	253.575	179.060	7.787	1.00198.51	A16S
ATOM	23871	O5* G	A1133	254.242	180.369	9.804	1.00171.38	A16S
ATOM	23872	C5* G	A1133	254.811	181.507	10.487	1.00171.38	A16S
ATOM	23873	C4* G	A1133	254.948	181.219	11.964	1.00171.38	A16S
ATOM	23874	O4* G	A1133	253.631	180.945	12.513	1.00171.38	A16S
ATOM	23875	C1* G	A1133	253.720	179.923	13.495	1.00171.38	A16S
ATOM	23876	N9 G	A1133	252.965	178.766	13.018	1.00198.51	A16S
ATOM	23877	C4 G	A1133	252.629	177.640	13.743	1.00198.51	A16S
ATOM	23878	N3 G	A1133	252.898	177.420	15.050	1.00198.51	A16S
ATOM	23879	C2 G	A1133	252.477	176.231	15.449	1.00198.51	A16S
ATOM	23880	N2 G	A1133	252.655	175.852	16.721	1.00198.51	A16S
ATOM	23881	N1 G	A1133	251.852	175.327	14.628	1.00198.51	A16S
ATOM	23882	C6 G	A1133	251.571	175.530	13.280	1.00198.51	A16S
ATOM	23883	O6 G	A1133	251.019	174.642	12.624	1.00198.51	A16S
ATOM	23884	C5 G	A1133	252.001	176.804	12.844	1.00198.51	A16S
ATOM	23885	N7 G	A1133	251.909	177.401	11.593	1.00198.51	A16S
ATOM	23886	C8 G	A1133	252.485	178.561	11.745	1.00198.51	A16S
ATOM	23887	C2* G	A1133	255.202	179.579	13.667	1.00171.38	A16S
ATOM	23888	O2* G	A1133	255.754	180.302	14.749	1.00171.38	A16S
ATOM	23889	C3* G	A1133	255.773	179.990	12.317	1.00171.38	A16S
ATOM	23890	O3* G	A1133	257.168	180.260	12.375	1.00171.38	A16S
ATOM	23891	P G	A1134	258.215	179.132	11.900	1.00144.16	A16S
ATOM	23892	O1P G	A1134	259.532	179.791	11.725	1.00195.74	A16S
ATOM	23893	O2P G	A1134	257.614	178.389	10.764	1.00195.74	A16S
ATOM	23894	O5* G	A1134	258.331	178.142	13.143	1.00144.16	A16S
ATOM	23895	C5* G	A1134	258.964	178.568	14.357	1.00144.16	A16S
ATOM	23896	C4* G	A1134	258.774	177.537	15.438	1.00144.16	A16S
ATOM	23897	O4* G	A1134	257.351	177.301	15.620	1.00144.16	A16S
ATOM	23898	C1* G	A1134	257.129	175.937	15.949	1.00144.16	A16S
ATOM	23899	N9 G	A1134	256.338	175.320	14.882	1.00195.74	A16S
ATOM	23900	C4 G	A1134	255.901	174.011	14.837	1.00195.74	A16S
ATOM	23901	N3 G	A1134	256.087	173.078	15.796	1.00195.74	A16S
ATOM	23902	C2 G	A1134	255.584	171.906	15.451	1.00195.74	A16S
ATOM	23903	N2 G	A1134	255.670	170.866	16.294	1.00195.74	A16S
ATOM	23904	N1 G	A1134	254.955	171.665	14.254	1.00195.74	A16S
ATOM	23905	C6 G	A1134	254.753	172.607	13.251	1.00195.74	A16S
ATOM	23906	O6 G	A1134	254.181	172.278	12.206	1.00195.74	A16S
ATOM	23907	C5 G	A1134	255.278	173.874	13.614	1.00195.74	A16S
ATOM	23908	N7 G	A1134	255.289	175.075	12.918	1.00195.74	A16S
ATOM	23909	C8 G	A1134	255.917	175.904	13.709	1.00195.74	A16S
ATOM	23910	C2* G	A1134	258.502	175.270	16.065	1.00144.16	A16S
ATOM	23911	O2* G	A1134	258.935	175.277	17.414	1.00144.16	A16S
ATOM	23912	C3* G	A1134	259.352	176.156	15.164	1.00144.16	A16S
ATOM	23913	O3* G	A1134	260.743	176.055	15.466	1.00144.16	A16S
ATOM	23914	P U	A1135	261.723	175.241	14.470	1.00198.84	A16S
ATOM	23915	O1P U	A1135	261.378	175.663	13.081	1.00179.08	A16S
ATOM	23916	O2P U	A1135	263.127	175.373	14.948	1.00179.08	A16S
ATOM	23917	O5* U	A1135	261.298	173.711	14.636	1.00198.84	A16S
ATOM	23918	C5* U	A1135	261.403	173.034	15.909	1.00198.84	A16S
ATOM	23919	C4* U	A1135	260.820	171.641	15.809	1.00198.84	A16S
ATOM	23920	O4* U	A1135	259.449	171.742	15.348	1.00198.84	A16S
ATOM	23921	C1* U	A1135	259.150	170.663	14.478	1.00198.84	A16S
ATOM	23922	N1 U	A1135	258.692	171.212	13.187	1.00179.08	A16S
ATOM	23923	C6 U	A1135	259.093	172.458	12.756	1.00179.08	A16S
ATOM	23924	C2 U	A1135	257.822	170.445	12.420	1.00179.08	A16S
ATOM	23925	O2 U	A1135	257.467	169.318	12.734	1.00179.08	A16S
ATOM	23926	N3 U	A1135	257.387	171.049	11.264	1.00179.08	A16S
ATOM	23927	C4 U	A1135	257.730	172.301	10.796	1.00179.08	A16S
ATOM	23928	O4 U	A1135	257.190	172.737	9.779	1.00179.08	A16S
ATOM	23929	C5 U	A1135	258.654	173.010	11.620	1.00179.08	A16S
ATOM	23930	C2* U	A1135	260.383	169.758	14.405	1.00198.84	A16S
ATOM	23931	O2* U	A1135	260.229	168.684	15.312	1.00198.84	A16S
ATOM	23932	C3* U	A1135	261.501	170.712	14.815	1.00198.84	A16S
ATOM	23933	O3* U	A1135	262.575	170.012	15.439	1.00198.84	A16S
ATOM	23934	P U	A1136	263.606	169.158	14.544	1.00197.13	A16S
ATOM	23935	O1P U	A1136	263.283	169.390	13.109	1.00178.31	A16S
ATOM	23936	O2P U	A1136	264.970	169.455	15.043	1.00178.31	A16S
ATOM	23937	O5* U	A1136	263.265	167.637	14.891	1.00197.13	A16S
ATOM	23938	C5* U	A1136	264.150	166.557	14.494	1.00197.13	A16S
ATOM	23939	C4* U	A1136	263.781	165.279	15.222	1.00197.13	A16S
ATOM	23940	O4* U	A1136	263.898	165.517	16.644	1.00197.13	A16S



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ATOM	23941	C1*	U	A1136	262.835	164.882	17.328	1.00197.13	A16S
ATOM	23942	N1	U	A1136	262.115	165.906	18.106	1.00178.31	A16S
ATOM	23943	C6	U	A1136	262.135	167.236	17.728	1.00178.31	A16S
ATOM	23944	C2	U	A1136	261.433	165.502	19.246	1.00178.31	A16S
ATOM	23945	O2	U	A1136	261.361	164.336	19.608	1.00178.31	A16S
ATOM	23946	N3	U	A1136	260.834	166.519	19.948	1.00178.31	A16S
ATOM	23947	C4	U	A1136	260.837	167.863	19.635	1.00178.31	A16S
ATOM	23948	O4	U	A1136	260.289	168.661	20.396	1.00178.31	A16S
ATOM	23949	C5	U	A1136	261.538	168.198	18.435	1.00178.31	A16S
ATOM	23950	C2*	U	A1136	262.001	164.100	16.308	1.00197.13	A16S
ATOM	23951	O2*	U	A1136	262.389	162.738	16.322	1.00197.13	A16S
ATOM	23952	C3*	U	A1136	262.350	164.804	14.998	1.00197.13	A16S
ATOM	23953	O3*	U	A1136	262.298	163.869	13.920	1.00197.13	A16S
ATOM	23954	P	C	A1137	262.196	164.388	12.400	1.00198.84	A16S
ATOM	23955	O1P	C	A1137	263.470	165.072	12.050	1.00182.06	A16S
ATOM	23956	O2P	C	A1137	261.726	163.251	11.570	1.00182.06	A16S
ATOM	23957	O5*	C	A1137	261.049	165.490	12.425	1.00198.84	A16S
ATOM	23958	C5*	C	A1137	259.681	165.136	12.689	1.00198.84	A16S
ATOM	23959	C4*	C	A1137	258.785	165.728	11.629	1.00198.84	A16S
ATOM	23960	O4*	C	A1137	259.081	167.139	11.506	1.00198.84	A16S
ATOM	23961	C1*	C	A1137	258.975	167.531	10.152	1.00198.84	A16S
ATOM	23962	N1	C	A1137	260.270	168.095	9.731	1.00182.06	A16S
ATOM	23963	C6	C	A1137	261.447	167.604	10.231	1.00182.06	A16S
ATOM	23964	C2	C	A1137	260.280	169.151	8.812	1.00182.06	A16S
ATOM	23965	O2	C	A1137	259.203	169.572	8.362	1.00182.06	A16S
ATOM	23966	N3	C	A1137	261.464	169.686	8.435	1.00182.06	A16S
ATOM	23967	C4	C	A1137	262.605	169.205	8.936	1.00182.06	A16S
ATOM	23968	N4	C	A1137	263.748	169.770	8.541	1.00182.06	A16S
ATOM	23969	C5	C	A1137	262.624	168.124	9.865	1.00182.06	A16S
ATOM	23970	C2*	C	A1137	258.506	166.321	9.338	1.00198.84	A16S
ATOM	23971	O2*	C	A1137	257.104	166.410	9.172	1.00198.84	A16S
ATOM	23972	C3*	C	A1137	258.928	165.152	10.227	1.00198.84	A16S
ATOM	23973	O3*	C	A1137	258.017	164.060	10.089	1.00198.84	A16S
ATOM	23974	P	G	A1138	258.499	162.659	9.449	1.00184.42	A16S
ATOM	23975	O1P	G	A1138	258.521	162.817	7.968	1.00165.70	A16S
ATOM	23976	O2P	G	A1138	259.723	162.202	10.154	1.00165.70	A16S
ATOM	23977	O5*	G	A1138	257.307	161.663	9.830	1.00184.42	A16S
ATOM	23978	C5*	G	A1138	255.973	162.177	10.073	1.00184.42	A16S
ATOM	23979	C4*	G	A1138	255.202	161.294	11.037	1.00184.42	A16S
ATOM	23980	O4*	G	A1138	256.044	160.885	12.144	1.00184.42	A16S
ATOM	23981	C1*	G	A1138	255.296	160.898	13.348	1.00184.42	A16S
ATOM	23982	N9	G	A1138	255.975	161.790	14.284	1.00165.70	A16S
ATOM	23983	C4	G	A1138	256.245	163.133	14.105	1.00165.70	A16S
ATOM	23984	N3	G	A1138	255.892	163.881	13.035	1.00165.70	A16S
ATOM	23985	C2	G	A1138	256.299	165.134	13.149	1.00165.70	A16S
ATOM	23986	N2	G	A1138	256.017	166.022	12.181	1.00165.70	A16S
ATOM	23987	N1	G	A1138	257.008	165.614	14.221	1.00165.70	A16S
ATOM	23988	C6	G	A1138	257.388	164.864	15.331	1.00165.70	A16S
ATOM	23989	O6	G	A1138	258.037	165.395	16.239	1.00165.70	A16S
ATOM	23990	C5	G	A1138	256.942	163.518	15.230	1.00165.70	A16S
ATOM	23991	N7	G	A1138	257.090	162.451	16.107	1.00165.70	A16S
ATOM	23992	C8	G	A1138	256.499	161.452	15.509	1.00165.70	A16S
ATOM	23993	C2*	G	A1138	253.853	161.294	13.016	1.00184.42	A16S
ATOM	23994	O2*	G	A1138	253.039	160.142	12.936	1.00184.42	A16S
ATOM	23995	C3*	G	A1138	254.023	162.012	11.681	1.00184.42	A16S
ATOM	23996	O3*	G	A1138	252.864	161.959	10.859	1.00184.42	A16S
ATOM	23997	P	G	A1139	252.720	162.987	9.628	1.00153.51	A16S
ATOM	23998	O1P	G	A1139	253.029	162.226	8.393	1.00177.33	A16S
ATOM	23999	O2P	G	A1139	253.490	164.220	9.938	1.00177.33	A16S
ATOM	24000	O5*	G	A1139	251.177	163.381	9.592	1.00153.51	A16S
ATOM	24001	C5*	G	A1139	250.237	162.837	10.534	1.00153.51	A16S
ATOM	24002	C4*	G	A1139	250.129	163.736	11.742	1.00153.51	A16S
ATOM	24003	O4*	G	A1139	250.105	165.116	11.325	1.00153.51	A16S
ATOM	24004	C1*	G	A1139	249.318	165.865	12.225	1.00153.51	A16S
ATOM	24005	N9	G	A1139	248.543	166.855	11.481	1.00177.33	A16S
ATOM	24006	C4	G	A1139	248.239	168.127	11.908	1.00177.33	A16S
ATOM	24007	N3	G	A1139	248.532	168.647	13.118	1.00177.33	A16S
ATOM	24008	C2	G	A1139	248.144	169.904	13.223	1.00177.33	A16S
ATOM	24009	N2	G	A1139	248.344	170.566	14.368	1.00177.33	A16S
ATOM	24010	N1	G	A1139	247.528	170.604	12.216	1.00177.33	A16S
ATOM	24011	C6	G	A1139	247.219	170.095	10.960	1.00177.33	A16S
ATOM	24012	O6	G	A1139	246.675	170.821	10.116	1.00177.33	A16S
ATOM	24013	C5	G	A1139	247.615	168.735	10.838	1.00177.33	A16S
ATOM	24014	N7	G	A1139	247.484	167.849	9.776	1.00177.33	A16S
ATOM	24015	C8	G	A1139	248.035	166.744	10.206	1.00177.33	A16S
ATOM	24016	C2*	G	A1139	248.626	164.920	13.211	1.00153.51	A16S
ATOM	24017	O2*	G	A1139	249.233	165.150	14.459	1.00153.51	A16S



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ATOM	24018	C3* G	A1139	248.873	163.544	12.571	1.00153.51	A16S
ATOM	24019	O3* G	A1139	249.066	162.379	13.394	1.00153.51	A16S
ATOM	24020	P C	A1140	249.332	162.499	14.978	1.00167.96	A16S
ATOM	24021	O1P C	A1140	249.538	161.103	15.461	1.00173.79	A16S
ATOM	24022	O2P C	A1140	248.239	163.318	15.569	1.00173.79	A16S
ATOM	24023	O5* C	A1140	250.735	163.264	15.099	1.00167.96	A16S
ATOM	24024	C5* C	A1140	251.823	162.694	15.876	1.00167.96	A16S
ATOM	24025	C4* C	A1140	252.731	163.773	16.457	1.00167.96	A16S
ATOM	24026	O4* C	A1140	253.685	164.248	15.474	1.00167.96	A16S
ATOM	24027	C1* C	A1140	254.101	165.559	15.825	1.00167.96	A16S
ATOM	24028	N1 C	A1140	253.965	166.463	14.663	1.00173.79	A16S
ATOM	24029	C6 C	A1140	253.108	166.180	13.635	1.00173.79	A16S
ATOM	24030	C2 C	A1140	254.746	167.633	14.626	1.00173.79	A16S
ATOM	24031	O2 C	A1140	255.507	167.883	15.577	1.00173.79	A16S
ATOM	24032	N3 C	A1140	254.650	168.462	13.560	1.00173.79	A16S
ATOM	24033	C4 C	A1140	253.816	168.170	12.560	1.00173.79	A16S
ATOM	24034	N4 C	A1140	253.761	169.017	11.525	1.00173.79	A16S
ATOM	24035	C5 C	A1140	253.003	166.997	12.574	1.00173.79	A16S
ATOM	24036	C2* C	A1140	253.302	166.006	17.048	1.00167.96	A16S
ATOM	24037	O2* C	A1140	254.106	165.857	18.203	1.00167.96	A16S
ATOM	24038	C3* C	A1140	252.118	165.044	17.029	1.00167.96	A16S
ATOM	24039	O3* C	A1140	251.614	164.875	18.346	1.00167.96	A16S
ATOM	24040	P C	A1141	250.557	165.935	18.933	1.00183.78	A16S
ATOM	24041	O1P C	A1141	250.262	165.501	20.322	1.00165.80	A16S
ATOM	24042	O2P C	A1141	249.444	166.077	17.957	1.00165.80	A16S
ATOM	24043	O5* C	A1141	251.361	167.317	18.976	1.00183.78	A16S
ATOM	24044	C5* C	A1141	252.247	167.639	20.079	1.00183.78	A16S
ATOM	24045	C4* C	A1141	252.494	169.139	20.161	1.00183.78	A16S
ATOM	24046	O4* C	A1141	253.327	169.581	19.058	1.00183.78	A16S
ATOM	24047	C1* C	A1141	252.975	170.909	18.698	1.00183.78	A16S
ATOM	24048	N1 C	A1141	252.618	170.945	17.265	1.00165.80	A16S
ATOM	24049	C6 C	A1141	252.316	169.797	16.584	1.00165.80	A16S
ATOM	24050	C2 C	A1141	252.590	172.186	16.604	1.00165.80	A16S
ATOM	24051	O2 C	A1141	252.873	173.217	17.236	1.00165.80	A16S
ATOM	24052	N3 C	A1141	252.256	172.228	15.294	1.00165.80	A16S
ATOM	24053	C4 C	A1141	251.962	171.100	14.643	1.00165.80	A16S
ATOM	24054	N4 C	A1141	251.643	171.190	13.349	1.00165.80	A16S
ATOM	24055	C5 C	A1141	251.986	169.828	15.287	1.00165.80	A16S
ATOM	24056	C2* C	A1141	251.843	171.372	19.621	1.00183.78	A16S
ATOM	24057	O2* C	A1141	252.368	172.173	20.659	1.00183.78	A16S
ATOM	24058	C3* C	A1141	251.272	170.047	20.117	1.00183.78	A16S
ATOM	24059	O3* C	A1141	250.676	170.191	21.401	1.00183.78	A16S
ATOM	24060	P G	A1142	249.128	170.607	21.519	1.00151.80	A16S
ATOM	24061	O1P G	A1142	248.777	170.530	22.964	1.00184.78	A16S
ATOM	24062	O2P G	A1142	248.343	169.824	20.533	1.00184.78	A16S
ATOM	24063	O5* G	A1142	249.098	172.137	21.072	1.00151.80	A16S
ATOM	24064	C5* G	A1142	249.475	173.174	21.995	1.00151.80	A16S
ATOM	24065	C4* G	A1142	249.380	174.531	21.340	1.00151.80	A16S
ATOM	24066	O4* G	A1142	250.285	174.576	20.210	1.00151.80	A16S
ATOM	24067	C1* G	A1142	249.749	175.420	19.209	1.00151.80	A16S
ATOM	24068	N9 G	A1142	249.636	174.662	17.966	1.00184.78	A16S
ATOM	24069	C4 G	A1142	249.323	175.172	16.726	1.00184.78	A16S
ATOM	24070	N3 G	A1142	249.081	176.471	16.438	1.00184.78	A16S
ATOM	24071	C2 G	A1142	248.780	176.647	15.163	1.00184.78	A16S
ATOM	24072	N2 G	A1142	248.505	177.873	14.705	1.00184.78	A16S
ATOM	24073	N1 G	A1142	248.722	175.634	14.243	1.00184.78	A16S
ATOM	24074	C6 G	A1142	248.968	174.292	14.515	1.00184.78	A16S
ATOM	24075	O6 G	A1142	248.886	173.458	13.607	1.00184.78	A16S
ATOM	24076	C5 G	A1142	249.295	174.086	15.880	1.00184.78	A16S
ATOM	24077	N7 G	A1142	249.604	172.918	16.567	1.00184.78	A16S
ATOM	24078	C8 G	A1142	249.800	173.307	17.797	1.00184.78	A16S
ATOM	24079	C2* G	A1142	248.402	175.957	19.707	1.00151.80	A16S
ATOM	24080	O2* G	A1142	248.563	177.267	20.216	1.00151.80	A16S
ATOM	24081	C3* G	A1142	248.024	174.938	20.778	1.00151.80	A16S
ATOM	24082	O3* G	A1142	247.197	175.536	21.780	1.00151.80	A16S
ATOM	24083	P G	A1143	245.606	175.286	21.768	1.00129.54	A16S
ATOM	24084	O1P G	A1143	245.017	176.098	22.862	1.00181.58	A16S
ATOM	24085	O2P G	A1143	245.368	173.818	21.736	1.00181.58	A16S
ATOM	24086	O5* G	A1143	245.108	175.903	20.385	1.00129.54	A16S
ATOM	24087	C5* G	A1143	245.331	177.290	20.058	1.00129.54	A16S
ATOM	24088	C4* G	A1143	245.228	177.499	18.560	1.00129.54	A16S
ATOM	24089	O4* G	A1143	246.269	176.729	17.897	1.00129.54	A16S
ATOM	24090	C1* G	A1143	245.768	176.171	16.688	1.00129.54	A16S
ATOM	24091	N9 G	A1143	245.756	174.712	16.828	1.00181.58	A16S
ATOM	24092	C4 G	A1143	245.550	173.782	15.827	1.00181.58	A16S
ATOM	24093	N3 G	A1143	245.345	174.051	14.517	1.00181.58	A16S
ATOM	24094	C2 G	A1143	245.172	172.947	13.808	1.00181.58	A16S



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ATOM	24095	N2	G	A1143	244.962	173.026	12.490	1.00181.58	A16S
ATOM	24096	N1	G	A1143	245.192	171.682	14.340	1.00181.58	A16S
ATOM	24097	C6	G	A1143	245.397	171.380	15.682	1.00181.58	A16S
ATOM	24098	O6	G	A1143	245.387	170.202	16.057	1.00181.58	A16S
ATOM	24099	C5	G	A1143	245.592	172.552	16.456	1.00181.58	A16S
ATOM	24100	N7	G	A1143	245.832	172.700	17.815	1.00181.58	A16S
ATOM	24101	C8	G	A1143	245.927	173.990	17.990	1.00181.58	A16S
ATOM	24102	C2*	G	A1143	244.359	176.733	16.476	1.00129.54	A16S
ATOM	24103	O2*	G	A1143	244.405	177.873	15.631	1.00129.54	A16S
ATOM	24104	C3*	G	A1143	243.931	177.028	17.912	1.00129.54	A16S
ATOM	24105	O3*	G	A1143	242.889	177.994	17.997	1.00129.54	A16S
ATOM	24106	P	G	A1144	241.361	177.505	18.134	1.00160.32	A16S
ATOM	24107	O1P	G	A1144	240.550	178.683	18.539	1.00175.78	A16S
ATOM	24108	O2P	G	A1144	241.319	176.262	18.957	1.00175.78	A16S
ATOM	24109	O5*	G	A1144	240.949	177.136	16.642	1.00160.32	A16S
ATOM	24110	C5*	G	A1144	240.800	178.159	15.636	1.00160.32	A16S
ATOM	24111	C4*	G	A1144	240.456	177.531	14.305	1.00160.32	A16S
ATOM	24112	O4*	G	A1144	241.593	176.760	13.831	1.00160.32	A16S
ATOM	24113	C1*	G	A1144	241.143	175.555	13.230	1.00160.32	A16S
ATOM	24114	N9	G	A1144	241.541	174.445	14.093	1.00175.78	A16S
ATOM	24115	C4	G	A1144	241.660	173.126	13.730	1.00175.78	A16S
ATOM	24116	N3	G	A1144	241.474	172.627	12.492	1.00175.78	A16S
ATOM	24117	C2	G	A1144	241.642	171.318	12.460	1.00175.78	A16S
ATOM	24118	N2	G	A1144	241.509	170.663	11.301	1.00175.78	A16S
ATOM	24119	N1	G	A1144	241.956	170.557	13.560	1.00175.78	A16S
ATOM	24120	C6	G	A1144	242.150	171.051	14.845	1.00175.78	A16S
ATOM	24121	O6	G	A1144	242.428	170.278	15.770	1.00175.78	A16S
ATOM	24122	C5	G	A1144	241.985	172.454	14.891	1.00175.78	A16S
ATOM	24123	N7	G	A1144	242.094	173.334	15.956	1.00175.78	A16S
ATOM	24124	C8	G	A1144	241.830	174.501	15.438	1.00175.78	A16S
ATOM	24125	C2*	G	A1144	239.618	175.634	13.153	1.00160.32	A16S
ATOM	24126	O2*	G	A1144	239.220	176.200	11.918	1.00160.32	A16S
ATOM	24127	C3*	G	A1144	239.308	176.531	14.342	1.00160.32	A16S
ATOM	24128	O3*	G	A1144	238.027	177.139	14.262	1.00160.32	A16S
ATOM	24129	P	C	A1145	236.802	176.530	15.115	1.00161.50	A16S
ATOM	24130	O1P	C	A1145	236.696	177.281	16.388	1.00139.66	A16S
ATOM	24131	O2P	C	A1145	236.949	175.055	15.161	1.00139.66	A16S
ATOM	24132	O5*	C	A1145	235.533	176.906	14.229	1.00161.50	A16S
ATOM	24133	C5*	C	A1145	234.601	175.900	13.791	1.00161.50	A16S
ATOM	24134	C4*	C	A1145	235.042	175.315	12.465	1.00161.50	A16S
ATOM	24135	O4*	C	A1145	236.325	174.658	12.625	1.00161.50	A16S
ATOM	24136	C1*	C	A1145	236.346	173.446	11.892	1.00161.50	A16S
ATOM	24137	N1	C	A1145	236.605	172.361	12.853	1.00139.66	A16S
ATOM	24138	C6	C	A1145	235.666	171.992	13.779	1.00139.66	A16S
ATOM	24139	C2	C	A1145	237.859	171.745	12.840	1.00139.66	A16S
ATOM	24140	O2	C	A1145	238.665	172.037	11.940	1.00139.66	A16S
ATOM	24141	N3	C	A1145	238.163	170.842	13.804	1.00139.66	A16S
ATOM	24142	C4	C	A1145	237.260	170.533	14.736	1.00139.66	A16S
ATOM	24143	N4	C	A1145	237.621	169.679	15.699	1.00139.66	A16S
ATOM	24144	C5	C	A1145	235.950	171.094	14.732	1.00139.66	A16S
ATOM	24145	C2*	C	A1145	235.047	173.359	11.094	1.00161.50	A16S
ATOM	24146	O2*	C	A1145	235.303	173.899	9.820	1.00161.50	A16S
ATOM	24147	C3*	C	A1145	234.114	174.248	11.913	1.00161.50	A16S
ATOM	24148	O3*	C	A1145	233.111	174.890	11.135	1.00161.50	A16S
ATOM	24149	P	A	A1146	232.233	174.037	10.102	1.00164.78	A16S
ATOM	24150	O1P	A	A1146	231.058	174.887	9.750	1.00115.19	A16S
ATOM	24151	O2P	A	A1146	232.013	172.677	10.700	1.00115.19	A16S
ATOM	24152	O5*	A	A1146	233.189	173.918	8.825	1.00164.78	A16S
ATOM	24153	C5*	A	A1146	233.487	175.076	8.007	1.00164.78	A16S
ATOM	24154	C4*	A	A1146	234.473	174.735	6.897	1.00164.78	A16S
ATOM	24155	O4*	A	A1146	235.849	174.899	7.324	1.00164.78	A16S
ATOM	24156	C1*	A	A1146	236.694	174.109	6.497	1.00164.78	A16S
ATOM	24157	N9	A	A1146	237.525	173.233	7.325	1.00115.19	A16S
ATOM	24158	C4	A	A1146	238.493	172.394	6.832	1.00115.19	A16S
ATOM	24159	N3	A	A1146	238.855	172.242	5.546	1.00115.19	A16S
ATOM	24160	C2	A	A1146	239.817	171.330	5.438	1.00115.19	A16S
ATOM	24161	N1	A	A1146	240.416	170.607	6.398	1.00115.19	A16S
ATOM	24162	C6	A	A1146	240.029	170.784	7.680	1.00115.19	A16S
ATOM	24163	N6	A	A1146	240.625	170.060	8.630	1.00115.19	A16S
ATOM	24164	C5	A	A1146	239.013	171.726	7.929	1.00115.19	A16S
ATOM	24165	N7	A	A1146	238.390	172.144	9.097	1.00115.19	A16S
ATOM	24166	C8	A	A1146	237.522	173.039	8.687	1.00115.19	A16S
ATOM	24167	C2*	A	A1146	235.806	173.285	5.568	1.00164.78	A16S
ATOM	24168	O2*	A	A1146	235.806	173.864	4.278	1.00164.78	A16S
ATOM	24169	C3*	A	A1146	234.459	173.344	6.285	1.00164.78	A16S
ATOM	24170	O3*	A	A1146	233.396	173.121	5.381	1.00164.78	A16S
ATOM	24171	P	C	A1147	232.822	171.631	5.199	1.00150.35	A16S



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ATOM	24172	O1P	C	A1147	232.472	171.105	6.557	1.00110.90	A16S
ATOM	24173	O2P	C	A1147	231.776	171.693	4.135	1.00110.90	A16S
ATOM	24174	O5*	C	A1147	234.076	170.800	4.662	1.00150.35	A16S
ATOM	24175	C5*	C	A1147	234.549	170.956	3.304	1.00150.35	A16S
ATOM	24176	C4*	C	A1147	235.571	169.889	2.969	1.00150.35	A16S
ATOM	24177	O4*	C	A1147	236.780	170.110	3.741	1.00150.35	A16S
ATOM	24178	C1*	C	A1147	237.372	168.863	4.070	1.00150.35	A16S
ATOM	24179	N1	C	A1147	237.472	168.744	5.540	1.00110.90	A16S
ATOM	24180	C6	C	A1147	236.583	169.378	6.366	1.00110.90	A16S
ATOM	24181	C2	C	A1147	238.502	167.951	6.084	1.00110.90	A16S
ATOM	24182	O2	C	A1147	239.303	167.384	5.315	1.00110.90	A16S
ATOM	24183	N3	C	A1147	238.596	167.821	7.429	1.00110.90	A16S
ATOM	24184	C4	C	A1147	237.720	168.442	8.221	1.00110.90	A16S
ATOM	24185	N4	C	A1147	237.852	168.283	9.534	1.00110.90	A16S
ATOM	24186	C5	C	A1147	236.668	169.254	7.697	1.00110.90	A16S
ATOM	24187	C2*	C	A1147	236.517	167.754	3.456	1.00150.35	A16S
ATOM	24188	O2*	C	A1147	237.108	167.319	2.248	1.00150.35	A16S
ATOM	24189	C3*	C	A1147	235.172	168.453	3.284	1.00150.35	A16S
ATOM	24190	O3*	C	A1147	234.384	167.868	2.253	1.00150.35	A16S
ATOM	24191	P	U	A1148	233.406	166.638	2.598	1.00100.31	A16S
ATOM	24192	O1P	U	A1148	232.498	167.023	3.711	1.00128.92	A16S
ATOM	24193	O2P	U	A1148	232.832	166.163	1.313	1.00128.92	A16S
ATOM	24194	O5*	U	A1148	234.388	165.527	3.176	1.00100.31	A16S
ATOM	24195	C5*	U	A1148	235.273	164.809	2.306	1.00100.31	A16S
ATOM	24196	C4*	U	A1148	236.005	163.735	3.071	1.00100.31	A16S
ATOM	24197	O4*	U	A1148	236.927	164.341	4.009	1.00100.31	A16S
ATOM	24198	C1*	U	A1148	237.082	163.488	5.130	1.00100.31	A16S
ATOM	24199	N1	U	A1148	236.729	164.226	6.350	1.00128.92	A16S
ATOM	24200	C6	U	A1148	235.822	165.265	6.335	1.00128.92	A16S
ATOM	24201	C2	U	A1148	237.330	163.820	7.530	1.00128.92	A16S
ATOM	24202	O2	U	A1148	238.151	162.919	7.581	1.00128.92	A16S
ATOM	24203	N3	U	A1148	236.931	164.506	8.647	1.00128.92	A16S
ATOM	24204	C4	U	A1148	236.015	165.536	8.708	1.00128.92	A16S
ATOM	24205	O4	U	A1148	235.702	165.998	9.808	1.00128.92	A16S
ATOM	24206	C5	U	A1148	235.454	165.915	7.443	1.00128.92	A16S
ATOM	24207	C2*	U	A1148	236.173	162.273	4.936	1.00100.31	A16S
ATOM	24208	O2*	U	A1148	236.919	161.155	4.487	1.00100.31	A16S
ATOM	24209	C3*	U	A1148	235.163	162.795	3.921	1.00100.31	A16S
ATOM	24210	O3*	U	A1148	234.604	161.732	3.161	1.00100.31	A16S
ATOM	24211	P	C	A1149	233.139	161.174	3.522	1.00 92.33	A16S
ATOM	24212	O1P	C	A1149	232.847	160.091	2.541	1.00115.73	A16S
ATOM	24213	O2P	C	A1149	232.216	162.336	3.627	1.00115.73	A16S
ATOM	24214	O5*	C	A1149	233.300	160.523	4.970	1.00 92.33	A16S
ATOM	24215	C5*	C	A1149	234.324	159.550	5.239	1.00 92.33	A16S
ATOM	24216	C4*	C	A1149	234.614	159.509	6.719	1.00 92.33	A16S
ATOM	24217	O4*	C	A1149	235.097	160.810	7.141	1.00 92.33	A16S
ATOM	24218	C1*	C	A1149	234.586	161.126	8.427	1.00 92.33	A16S
ATOM	24219	N1	C	A1149	233.779	162.366	8.322	1.00115.73	A16S
ATOM	24220	C6	C	A1149	233.422	162.868	7.098	1.00115.73	A16S
ATOM	24221	C2	C	A1149	233.376	163.026	9.498	1.00115.73	A16S
ATOM	24222	O2	C	A1149	233.707	162.561	10.599	1.00115.73	A16S
ATOM	24223	N3	C	A1149	232.632	164.152	9.399	1.00115.73	A16S
ATOM	24224	C4	C	A1149	232.284	164.624	8.197	1.00115.73	A16S
ATOM	24225	N4	C	A1149	231.536	165.727	8.149	1.00115.73	A16S
ATOM	24226	C5	C	A1149	232.684	163.982	6.991	1.00115.73	A16S
ATOM	24227	C2*	C	A1149	233.792	159.911	8.919	1.00 92.33	A16S
ATOM	24228	O2*	C	A1149	234.616	159.099	9.733	1.00 92.33	A16S
ATOM	24229	C3*	C	A1149	233.411	159.231	7.607	1.00 92.33	A16S
ATOM	24230	O3*	C	A1149	233.205	157.830	7.774	1.00 92.33	A16S
ATOM	24231	P	U	A1150	231.752	157.275	8.183	1.00104.63	A16S
ATOM	24232	O1P	U	A1150	231.808	155.790	8.125	1.00 96.41	A16S
ATOM	24233	O2P	U	A1150	230.726	158.013	7.399	1.00 96.41	A16S
ATOM	24234	O5*	U	A1150	231.590	157.678	9.711	1.00104.63	A16S
ATOM	24235	C5*	U	A1150	232.306	156.979	10.742	1.00104.63	A16S
ATOM	24236	C4*	U	A1150	231.965	157.579	12.076	1.00104.63	A16S
ATOM	24237	O4*	U	A1150	232.325	158.981	12.031	1.00104.63	A16S
ATOM	24238	C1*	U	A1150	231.326	159.755	12.662	1.00104.63	A16S
ATOM	24239	N1	U	A1150	230.809	160.716	11.675	1.00 96.41	A16S
ATOM	24240	C6	U	A1150	230.730	160.397	10.342	1.00 96.41	A16S
ATOM	24241	C2	U	A1150	230.419	161.962	12.130	1.00 96.41	A16S
ATOM	24242	O2	U	A1150	230.448	162.277	13.306	1.00 96.41	A16S
ATOM	24243	N3	U	A1150	229.989	162.828	11.157	1.00 96.41	A16S
ATOM	24244	C4	U	A1150	229.899	162.580	9.806	1.00 96.41	A16S
ATOM	24245	O4	U	A1150	229.512	163.475	9.046	1.00 96.41	A16S
ATOM	24246	C5	U	A1150	230.301	161.261	9.417	1.00 96.41	A16S
ATOM	24247	C2*	U	A1150	230.286	158.800	13.249	1.00104.63	A16S
ATOM	24248	O2*	U	A1150	230.609	158.568	14.604	1.00104.63	A16S



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ATOM	24249	C3* U	A1150	230.476	157.563	12.380	1.00104.63	A16S
ATOM	24250	O3* U	A1150	230.121	156.351	13.040	1.00104.63	A16S
ATOM	24251	P A	A1151	228.770	155.584	12.620	1.00105.64	A16S
ATOM	24252	O1P A	A1151	228.713	154.273	13.337	1.00111.41	A16S
ATOM	24253	O2P A	A1151	228.662	155.619	11.139	1.00111.41	A16S
ATOM	24254	O5* A	A1151	227.617	156.522	13.186	1.00105.64	A16S
ATOM	24255	C5* A	A1151	227.545	156.826	14.587	1.00105.64	A16S
ATOM	24256	C4* A	A1151	226.391	157.757	14.867	1.00105.64	A16S
ATOM	24257	O4* A	A1151	226.669	159.089	14.345	1.00105.64	A16S
ATOM	24258	C1* A	A1151	225.550	159.544	13.621	1.00105.64	A16S
ATOM	24259	N9 A	A1151	225.990	160.463	12.571	1.00111.41	A16S
ATOM	24260	C4 A	A1151	225.815	161.829	12.595	1.00111.41	A16S
ATOM	24261	N3 A	A1151	225.256	162.564	13.575	1.00111.41	A16S
ATOM	24262	C2 A	A1151	225.227	163.853	13.239	1.00111.41	A16S
ATOM	24263	N1 A	A1151	225.657	164.447	12.118	1.00111.41	A16S
ATOM	24264	C6 A	A1151	226.212	163.680	11.152	1.00111.41	A16S
ATOM	24265	N6 A	A1151	226.629	164.270	10.032	1.00111.41	A16S
ATOM	24266	C5 A	A1151	226.309	162.295	11.389	1.00111.41	A16S
ATOM	24267	N7 A	A1151	226.814	161.248	10.628	1.00111.41	A16S
ATOM	24268	C8 A	A1151	226.610	160.187	11.375	1.00111.41	A16S
ATOM	24269	C2* A	A1151	224.840	158.287	13.124	1.00105.64	A16S
ATOM	24270	O2* A	A1151	223.488	158.568	12.829	1.00105.64	A16S
ATOM	24271	C3* A	A1151	225.034	157.341	14.309	1.00105.64	A16S
ATOM	24272	O3* A	A1151	224.041	157.573	15.297	1.00105.64	A16S
ATOM	24273	P A	A1152	222.584	156.928	15.126	1.00105.48	A16S
ATOM	24274	O1P A	A1152	222.176	156.421	16.460	1.00113.88	A16S
ATOM	24275	O2P A	A1152	222.633	155.992	13.978	1.00113.88	A16S
ATOM	24276	O5* A	A1152	221.666	158.176	14.726	1.00105.48	A16S
ATOM	24277	C5* A	A1152	220.858	158.836	15.718	1.00105.48	A16S
ATOM	24278	C4* A	A1152	220.376	160.189	15.233	1.00105.48	A16S
ATOM	24279	O4* A	A1152	221.499	160.976	14.764	1.00105.48	A16S
ATOM	24280	C1* A	A1152	220.993	162.067	14.022	1.00105.48	A16S
ATOM	24281	N9 A	A1152	221.825	162.327	12.854	1.00113.88	A16S
ATOM	24282	C4 A	A1152	221.874	163.533	12.200	1.00113.88	A16S
ATOM	24283	N3 A	A1152	221.204	164.655	12.511	1.00113.88	A16S
ATOM	24284	C2 A	A1152	221.487	165.627	11.646	1.00113.88	A16S
ATOM	24285	N1 A	A1152	222.303	165.607	10.587	1.00113.88	A16S
ATOM	24286	C6 A	A1152	222.964	164.466	10.305	1.00113.88	A16S
ATOM	24287	N6 A	A1152	223.782	164.450	9.254	1.00113.88	A16S
ATOM	24288	C5 A	A1152	222.745	163.357	11.147	1.00113.88	A16S
ATOM	24289	N7 A	A1152	223.242	162.061	11.137	1.00113.88	A16S
ATOM	24290	C8 A	A1152	222.668	161.495	12.173	1.00113.88	A16S
ATOM	24291	C2* A	A1152	219.544	161.754	13.649	1.00105.48	A16S
ATOM	24292	O2* A	A1152	218.710	162.606	14.405	1.00105.48	A16S
ATOM	24293	C3* A	A1152	219.403	160.289	14.061	1.00105.48	A16S
ATOM	24294	O3* A	A1152	218.044	160.054	14.435	1.00105.48	A16S
ATOM	24295	P C	A1153	216.902	159.936	13.295	1.00 94.55	A16S
ATOM	24296	O1P C	A1153	215.636	159.628	14.008	1.00130.65	A16S
ATOM	24297	O2P C	A1153	217.371	159.029	12.216	1.00130.65	A16S
ATOM	24298	O5* C	A1153	216.771	161.407	12.685	1.00 94.55	A16S
ATOM	24299	C5* C	A1153	216.086	162.451	13.413	1.00 94.55	A16S
ATOM	24300	C4* C	A1153	216.126	163.755	12.650	1.00 94.55	A16S
ATOM	24301	O4* C	A1153	217.499	164.144	12.386	1.00 94.55	A16S
ATOM	24302	C1* C	A1153	217.573	164.827	11.143	1.00 94.55	A16S
ATOM	24303	N1 C	A1153	218.581	164.169	10.284	1.00130.65	A16S
ATOM	24304	C6 C	A1153	218.900	162.850	10.455	1.00130.65	A16S
ATOM	24305	C2 C	A1153	219.215	164.924	9.278	1.00130.65	A16S
ATOM	24306	O2 C	A1153	218.909	166.113	9.130	1.00130.65	A16S
ATOM	24307	N3 C	A1153	220.141	164.335	8.494	1.00130.65	A16S
ATOM	24308	C4 C	A1153	220.446	163.050	8.675	1.00130.65	A16S
ATOM	24309	N4 C	A1153	221.374	162.513	7.881	1.00130.65	A16S
ATOM	24310	C5 C	A1153	219.817	162.257	9.681	1.00130.65	A16S
ATOM	24311	C2* C	A1153	216.168	164.865	10.534	1.00 94.55	A16S
ATOM	24312	O2* C	A1153	215.589	166.138	10.736	1.00 94.55	A16S
ATOM	24313	C3* C	A1153	215.463	163.737	11.286	1.00 94.55	A16S
ATOM	24314	O3* C	A1153	214.071	163.978	11.416	1.00 94.55	A16S
ATOM	24315	P G	A1154	213.074	163.542	10.233	1.00121.85	A16S
ATOM	24316	O1P G	A1154	211.700	163.907	10.685	1.00120.78	A16S
ATOM	24317	O2P G	A1154	213.374	162.129	9.868	1.00120.78	A16S
ATOM	24318	O5* G	A1154	213.485	164.478	9.005	1.00121.85	A16S
ATOM	24319	C5* G	A1154	213.062	165.847	8.968	1.00121.85	A16S
ATOM	24320	C4* G	A1154	213.794	166.619	7.894	1.00121.85	A16S
ATOM	24321	O4* G	A1154	215.225	166.538	8.110	1.00121.85	A16S
ATOM	24322	C1* G	A1154	215.896	166.747	6.879	1.00121.85	A16S
ATOM	24323	N9 G	A1154	216.808	165.638	6.614	1.00120.78	A16S
ATOM	24324	C4 G	A1154	217.750	165.610	5.613	1.00120.78	A16S
ATOM	24325	N3 G	A1154	218.016	166.615	4.749	1.00120.78	A16S



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ATOM	24326	C2	G	A1154	218.943	166.282	3.872	1.00120.78	A16S
ATOM	24327	N2	G	A1154	219.328	167.170	2.946	1.00120.78	A16S
ATOM	24328	N1	G	A1154	219.558	165.055	3.838	1.00120.78	A16S
ATOM	24329	C6	G	A1154	219.298	164.003	4.714	1.00120.78	A16S
ATOM	24330	O6	G	A1154	219.896	162.928	4.580	1.00120.78	A16S
ATOM	24331	C5	G	A1154	218.313	164.355	5.676	1.00120.78	A16S
ATOM	24332	N7	G	A1154	217.768	163.622	6.723	1.00120.78	A16S
ATOM	24333	C8	G	A1154	216.884	164.424	7.254	1.00120.78	A16S
ATOM	24334	C2*	G	A1154	214.837	166.863	5.782	1.00121.85	A16S
ATOM	24335	O2*	G	A1154	214.647	168.231	5.486	1.00121.85	A16S
ATOM	24336	C3*	G	A1154	213.627	166.205	6.440	1.00121.85	A16S
ATOM	24337	O3*	G	A1154	212.410	166.675	5.872	1.00121.85	A16S
ATOM	24338	P	G	A1155	211.833	165.978	4.536	1.00113.80	A16S
ATOM	24339	O1P	G	A1155	210.450	166.489	4.310	1.00131.44	A16S
ATOM	24340	O2P	G	A1155	212.067	164.514	4.642	1.00131.44	A16S
ATOM	24341	O5*	G	A1155	212.756	166.564	3.381	1.00113.80	A16S
ATOM	24342	C5*	G	A1155	212.898	167.977	3.251	1.00113.80	A16S
ATOM	24343	C4*	G	A1155	213.983	168.318	2.274	1.00113.80	A16S
ATOM	24344	O4*	G	A1155	215.265	167.838	2.738	1.00113.80	A16S
ATOM	24345	C1*	G	A1155	216.089	167.560	1.621	1.00113.80	A16S
ATOM	24346	N9	G	A1155	216.583	166.192	1.720	1.00131.44	A16S
ATOM	24347	C4	G	A1155	217.479	165.600	0.862	1.00131.44	A16S
ATOM	24348	N3	G	A1155	218.034	166.177	-0.228	1.00131.44	A16S
ATOM	24349	C2	G	A1155	218.857	165.358	-0.855	1.00131.44	A16S
ATOM	24350	N2	G	A1155	219.491	165.772	-1.960	1.00131.44	A16S
ATOM	24351	N1	G	A1155	219.120	164.074	-0.444	1.00131.44	A16S
ATOM	24352	C6	G	A1155	218.565	163.461	0.678	1.00131.44	A16S
ATOM	24353	O6	G	A1155	218.877	162.299	0.967	1.00131.44	A16S
ATOM	24354	C5	G	A1155	217.672	164.327	1.355	1.00131.44	A16S
ATOM	24355	N7	G	A1155	216.903	164.118	2.493	1.00131.44	A16S
ATOM	24356	C8	G	A1155	216.271	165.247	2.668	1.00131.44	A16S
ATOM	24357	C2*	G	A1155	215.262	167.793	0.357	1.00113.80	A16S
ATOM	24358	O2*	G	A1155	215.563	169.064	-0.179	1.00113.80	A16S
ATOM	24359	C3*	G	A1155	213.843	167.717	0.897	1.00113.80	A16S
ATOM	24360	O3*	G	A1155	212.942	168.463	0.108	1.00113.80	A16S
ATOM	24361	P	G	A1156	211.917	167.685	-0.843	1.00126.06	A16S
ATOM	24362	O1P	G	A1156	211.112	168.691	-1.592	1.00113.75	A16S
ATOM	24363	O2P	G	A1156	211.229	166.657	0.007	1.00113.75	A16S
ATOM	24364	O5*	G	A1156	212.872	166.959	-1.896	1.00126.06	A16S
ATOM	24365	C5*	G	A1156	213.681	167.728	-2.822	1.00126.06	A16S
ATOM	24366	C4*	G	A1156	214.499	166.808	-3.704	1.00126.06	A16S
ATOM	24367	O4*	G	A1156	215.590	166.220	-2.953	1.00126.06	A16S
ATOM	24368	C1*	G	A1156	215.795	164.885	-3.372	1.00126.06	A16S
ATOM	24369	N9	G	A1156	215.591	164.015	-2.216	1.00113.75	A16S
ATOM	24370	C4	G	A1156	216.288	162.867	-1.907	1.00113.75	A16S
ATOM	24371	N3	G	A1156	217.288	162.326	-2.631	1.00113.75	A16S
ATOM	24372	C2	G	A1156	217.760	161.224	-2.073	1.00113.75	A16S
ATOM	24373	N2	G	A1156	218.762	160.555	-2.661	1.00113.75	A16S
ATOM	24374	N1	G	A1156	217.287	160.696	-0.896	1.00113.75	A16S
ATOM	24375	C6	G	A1156	216.262	161.237	-0.132	1.00113.75	A16S
ATOM	24376	O6	G	A1156	215.921	160.685	0.925	1.00113.75	A16S
ATOM	24377	C5	G	A1156	215.743	162.416	-0.723	1.00113.75	A16S
ATOM	24378	N7	G	A1156	214.724	163.255	-0.298	1.00113.75	A16S
ATOM	24379	C8	G	A1156	214.668	164.185	-1.212	1.00113.75	A16S
ATOM	24380	C2*	G	A1156	214.834	164.611	-4.532	1.00126.06	A16S
ATOM	24381	O2*	G	A1156	215.506	164.851	-5.747	1.00126.06	A16S
ATOM	24382	C3*	G	A1156	213.734	165.633	-4.277	1.00126.06	A16S
ATOM	24383	O3*	G	A1156	213.040	166.019	-5.454	1.00126.06	A16S
ATOM	24384	P	A	A1157	211.458	165.756	-5.562	1.00119.83	A16S
ATOM	24385	O1P	A	A1157	210.995	166.386	-6.829	1.00120.85	A16S
ATOM	24386	O2P	A	A1157	210.829	166.152	-4.281	1.00120.85	A16S
ATOM	24387	O5*	A	A1157	211.355	164.170	-5.676	1.00119.83	A16S
ATOM	24388	C5*	A	A1157	210.124	163.521	-6.048	1.00119.83	A16S
ATOM	24389	C4*	A	A1157	210.415	162.203	-6.736	1.00119.83	A16S
ATOM	24390	O4*	A	A1157	211.116	162.462	-7.979	1.00119.83	A16S
ATOM	24391	C1*	A	A1157	212.317	161.719	-8.012	1.00119.83	A16S
ATOM	24392	N9	A	A1157	213.321	162.496	-8.738	1.00120.85	A16S
ATOM	24393	C4	A	A1157	214.335	161.985	-9.510	1.00120.85	A16S
ATOM	24394	N3	A	A1157	214.619	160.691	-9.728	1.00120.85	A16S
ATOM	24395	C2	A	A1157	215.667	160.575	-10.536	1.00120.85	A16S
ATOM	24396	N1	A	A1157	216.406	161.533	-11.110	1.00120.85	A16S
ATOM	24397	C6	A	A1157	216.092	162.821	-10.869	1.00120.85	A16S
ATOM	24398	N6	A	A1157	216.830	163.779	-11.435	1.00120.85	A16S
ATOM	24399	C5	A	A1157	215.002	163.078	-10.028	1.00120.85	A16S
ATOM	24400	N7	A	A1157	214.432	164.258	-9.581	1.00120.85	A16S
ATOM	24401	C8	A	A1157	213.444	163.860	-8.818	1.00120.85	A16S
ATOM	24402	C2*	A	A1157	212.660	161.394	-6.558	1.00119.83	A16S



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ATOM	24403	O2*	A	A1157	213.472	160.239	-6.474	1.00119.83	A16S
ATOM	24404	C3*	A	A1157	211.270	161.202	-5.954	1.00119.83	A16S
ATOM	24405	O3*	A	A1157	210.843	159.869	-6.242	1.00119.83	A16S
ATOM	24406	P	C	A1158	209.410	159.353	-5.729	1.00127.42	A16S
ATOM	24407	O1P	C	A1158	209.146	159.995	-4.411	1.00114.35	A16S
ATOM	24408	O2P	C	A1158	209.396	157.867	-5.841	1.00114.35	A16S
ATOM	24409	O5*	C	A1158	208.381	159.950	-6.796	1.00127.42	A16S
ATOM	24410	C5*	C	A1158	206.965	159.974	-6.522	1.00127.42	A16S
ATOM	24411	C4*	C	A1158	206.212	160.732	-7.599	1.00127.42	A16S
ATOM	24412	O4*	C	A1158	206.695	162.093	-7.683	1.00127.42	A16S
ATOM	24413	C1*	C	A1158	206.406	162.605	-8.969	1.00127.42	A16S
ATOM	24414	N1	C	A1158	207.549	163.407	-9.437	1.00114.35	A16S
ATOM	24415	C6	C	A1158	207.385	164.727	-9.740	1.00114.35	A16S
ATOM	24416	C2	C	A1158	208.802	162.806	-9.571	1.00114.35	A16S
ATOM	24417	O2	C	A1158	208.932	161.621	-9.253	1.00114.35	A16S
ATOM	24418	N3	C	A1158	209.842	163.533	-10.033	1.00114.35	A16S
ATOM	24419	C4	C	A1158	209.670	164.816	-10.338	1.00114.35	A16S
ATOM	24420	N4	C	A1158	210.721	165.493	-10.812	1.00114.35	A16S
ATOM	24421	C5	C	A1158	208.411	165.464	-10.181	1.00114.35	A16S
ATOM	24422	C2*	C	A1158	205.958	161.448	-9.875	1.00127.42	A16S
ATOM	24423	O2*	C	A1158	204.584	161.609	-10.162	1.00127.42	A16S
ATOM	24424	C3*	C	A1158	206.286	160.206	-9.029	1.00127.42	A16S
ATOM	24425	O3*	C	A1158	205.301	159.170	-9.192	1.00127.42	A16S
ATOM	24426	P	U	A1159	205.434	158.086	-10.380	1.00133.62	A16S
ATOM	24427	O1P	U	A1159	204.352	157.092	-10.168	1.00129.06	A16S
ATOM	24428	O2P	U	A1159	206.843	157.621	-10.471	1.00129.06	A16S
ATOM	24429	O5*	U	A1159	205.069	158.907	-11.696	1.00133.62	A16S
ATOM	24430	C5*	U	A1159	205.778	158.676	-12.921	1.00133.62	A16S
ATOM	24431	C4*	U	A1159	206.075	159.988	-13.604	1.00133.62	A16S
ATOM	24432	O4*	U	A1159	207.205	159.797	-14.491	1.00133.62	A16S
ATOM	24433	C1*	U	A1159	206.858	160.186	-15.802	1.00133.62	A16S
ATOM	24434	N1	U	A1159	207.503	159.242	-16.733	1.00129.06	A16S
ATOM	24435	C6	U	A1159	207.635	157.906	-16.419	1.00129.06	A16S
ATOM	24436	C2	U	A1159	207.995	159.738	-17.929	1.00129.06	A16S
ATOM	24437	O2	U	A1159	207.875	160.903	-18.265	1.00129.06	A16S
ATOM	24438	N3	U	A1159	208.632	158.814	-18.721	1.00129.06	A16S
ATOM	24439	C4	U	A1159	208.816	157.473	-18.454	1.00129.06	A16S
ATOM	24440	O4	U	A1159	209.471	156.782	-19.238	1.00129.06	A16S
ATOM	24441	C5	U	A1159	208.256	157.031	-17.217	1.00129.06	A16S
ATOM	24442	C2*	U	A1159	205.326	160.227	-15.866	1.00133.62	A16S
ATOM	24443	O2*	U	A1159	204.890	161.160	-16.838	1.00133.62	A16S
ATOM	24444	C3*	U	A1159	204.945	160.612	-14.428	1.00133.62	A16S
ATOM	24445	O3*	U	A1159	204.949	162.042	-14.266	1.00133.62	A16S
ATOM	24446	P	G	A1160	203.766	162.787	-13.442	1.00114.15	A16S
ATOM	24447	O1P	G	A1160	203.390	161.944	-12.275	1.00124.17	A16S
ATOM	24448	O2P	G	A1160	202.716	163.217	-14.407	1.00124.17	A16S
ATOM	24449	O5*	G	A1160	204.494	164.092	-12.884	1.00114.15	A16S
ATOM	24450	C5*	G	A1160	203.763	165.276	-12.516	1.00114.15	A16S
ATOM	24451	C4*	G	A1160	204.659	166.495	-12.630	1.00114.15	A16S
ATOM	24452	O4*	G	A1160	205.914	166.214	-11.947	1.00114.15	A16S
ATOM	24453	C1*	G	A1160	206.991	166.842	-12.634	1.00114.15	A16S
ATOM	24454	N9	G	A1160	207.946	165.824	-13.079	1.00124.17	A16S
ATOM	24455	C4	G	A1160	209.177	166.059	-13.661	1.00124.17	A16S
ATOM	24456	N3	G	A1160	209.731	167.268	-13.886	1.00124.17	A16S
ATOM	24457	C2	G	A1160	210.902	167.168	-14.490	1.00124.17	A16S
ATOM	24458	N2	G	A1160	211.599	168.271	-14.776	1.00124.17	A16S
ATOM	24459	N1	G	A1160	211.478	165.984	-14.857	1.00124.17	A16S
ATOM	24460	C6	G	A1160	210.922	164.732	-14.651	1.00124.17	A16S
ATOM	24461	O6	G	A1160	211.507	163.730	-15.060	1.00124.17	A16S
ATOM	24462	C5	G	A1160	209.676	164.816	-13.978	1.00124.17	A16S
ATOM	24463	N7	G	A1160	208.805	163.814	-13.570	1.00124.17	A16S
ATOM	24464	C8	G	A1160	207.796	164.455	-13.042	1.00124.17	A16S
ATOM	24465	C2*	G	A1160	206.404	167.615	-13.814	1.00114.15	A16S
ATOM	24466	O2*	G	A1160	206.256	168.978	-13.472	1.00114.15	A16S
ATOM	24467	C3*	G	A1160	205.082	166.889	-14.041	1.00114.15	A16S
ATOM	24468	O3*	G	A1160	204.133	167.733	-14.686	1.00114.15	A16S
ATOM	24469	P	C	A1161	204.197	167.929	-16.284	1.00123.37	A16S
ATOM	24470	O1P	C	A1161	203.275	169.032	-16.665	1.00142.39	A16S
ATOM	24471	O2P	C	A1161	204.031	166.594	-16.907	1.00142.39	A16S
ATOM	24472	O5*	C	A1161	205.690	168.420	-16.548	1.00123.37	A16S
ATOM	24473	C5*	C	A1161	206.111	169.751	-16.186	1.00123.37	A16S
ATOM	24474	C4*	C	A1161	207.365	170.119	-16.936	1.00123.37	A16S
ATOM	24475	O4*	C	A1161	208.493	169.354	-16.436	1.00123.37	A16S
ATOM	24476	C1*	C	A1161	209.358	169.018	-17.514	1.00123.37	A16S
ATOM	24477	N1	C	A1161	209.461	167.546	-17.609	1.00142.39	A16S
ATOM	24478	C6	C	A1161	208.459	166.738	-17.145	1.00142.39	A16S
ATOM	24479	C2	C	A1161	210.604	166.981	-18.195	1.00142.39	A16S



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ATOM	24480	O2	C	A1161	211.500	167.728	-18.612	1.00142.39	A16S
ATOM	24481	N3	C	A1161	210.700	165.638	-18.295	1.00142.39	A16S
ATOM	24482	C4	C	A1161	209.713	164.863	-17.844	1.00142.39	A16S
ATOM	24483	N4	C	A1161	209.849	163.543	-17.970	1.00142.39	A16S
ATOM	24484	C5	C	A1161	208.543	165.406	-17.244	1.00142.39	A16S
ATOM	24485	C2*	C	A1161	208.784	169.642	-18.787	1.00123.37	A16S
ATOM	24486	O2*	C	A1161	209.429	170.869	-19.054	1.00123.37	A16S
ATOM	24487	C3*	C	A1161	207.314	169.797	-18.417	1.00123.37	A16S
ATOM	24488	O3*	C	A1161	206.641	170.798	-19.158	1.00123.37	A16S
ATOM	24489	P	C	A1162	205.819	170.379	-20.472	1.00129.25	A16S
ATOM	24490	O1P	C	A1162	205.078	171.582	-20.937	1.00162.86	A16S
ATOM	24491	O2P	C	A1162	205.073	169.130	-20.169	1.00162.86	A16S
ATOM	24492	O5*	C	A1162	206.958	170.050	-21.536	1.00129.25	A16S
ATOM	24493	C5*	C	A1162	207.839	171.089	-22.012	1.00129.25	A16S
ATOM	24494	C4*	C	A1162	208.801	170.540	-23.038	1.00129.25	A16S
ATOM	24495	O4*	C	A1162	209.799	169.710	-22.392	1.00129.25	A16S
ATOM	24496	C1*	C	A1162	210.136	168.625	-23.243	1.00129.25	A16S
ATOM	24497	N1	C	A1162	209.820	167.361	-22.547	1.00162.86	A16S
ATOM	24498	C6	C	A1162	209.008	167.342	-21.445	1.00162.86	A16S
ATOM	24499	C2	C	A1162	210.362	166.166	-23.043	1.00162.86	A16S
ATOM	24500	O2	C	A1162	211.108	166.209	-24.035	1.00162.86	A16S
ATOM	24501	N3	C	A1162	210.059	164.999	-22.428	1.00162.86	A16S
ATOM	24502	C4	C	A1162	209.258	164.994	-21.361	1.00162.86	A16S
ATOM	24503	N4	C	A1162	208.981	163.819	-20.793	1.00162.86	A16S
ATOM	24504	C5	C	A1162	208.703	166.192	-20.829	1.00162.86	A16S
ATOM	24505	C2*	C	A1162	209.348	168.782	-24.547	1.00129.25	A16S
ATOM	24506	O2*	C	A1162	210.147	169.389	-25.541	1.00129.25	A16S
ATOM	24507	C3*	C	A1162	208.178	169.647	-24.096	1.00129.25	A16S
ATOM	24508	O3*	C	A1162	207.592	170.389	-25.155	1.00129.25	A16S
ATOM	24509	P	C	A1163	206.268	169.830	-25.872	1.00137.89	A16S
ATOM	24510	O1P	C	A1163	205.708	170.917	-26.715	1.00148.29	A16S
ATOM	24511	O2P	C	A1163	205.411	169.184	-24.840	1.00148.29	A16S
ATOM	24512	O5*	C	A1163	206.828	168.711	-26.850	1.00137.89	A16S
ATOM	24513	C5*	C	A1163	207.701	169.065	-27.927	1.00137.89	A16S
ATOM	24514	C4*	C	A1163	208.175	167.828	-28.631	1.00137.89	A16S
ATOM	24515	O4*	C	A1163	209.075	167.085	-27.766	1.00137.89	A16S
ATOM	24516	C1*	C	A1163	208.901	165.693	-27.983	1.00137.89	A16S
ATOM	24517	N1	C	A1163	208.505	165.051	-26.710	1.00148.29	A16S
ATOM	24518	C6	C	A1163	207.980	165.789	-25.683	1.00148.29	A16S
ATOM	24519	C2	C	A1163	208.662	163.658	-26.569	1.00148.29	A16S
ATOM	24520	O2	C	A1163	209.163	163.007	-27.498	1.00148.29	A16S
ATOM	24521	N3	C	A1163	208.266	163.062	-25.421	1.00148.29	A16S
ATOM	24522	C4	C	A1163	207.744	163.794	-24.433	1.00148.29	A16S
ATOM	24523	N4	C	A1163	207.360	163.162	-23.320	1.00148.29	A16S
ATOM	24524	C5	C	A1163	207.590	165.207	-24.540	1.00148.29	A16S
ATOM	24525	C2*	C	A1163	207.844	165.521	-29.079	1.00137.89	A16S
ATOM	24526	O2*	C	A1163	208.474	165.340	-30.333	1.00137.89	A16S
ATOM	24527	C3*	C	A1163	207.081	166.837	-28.985	1.00137.89	A16S
ATOM	24528	O3*	C	A1163	206.405	167.181	-30.190	1.00137.89	A16S
ATOM	24529	P	G	A1164	204.878	166.715	-30.404	1.00133.67	A16S
ATOM	24530	O1P	G	A1164	204.362	167.419	-31.611	1.00132.46	A16S
ATOM	24531	O2P	G	A1164	204.165	166.864	-29.104	1.00132.46	A16S
ATOM	24532	O5*	G	A1164	204.995	165.162	-30.754	1.00133.67	A16S
ATOM	24533	C5*	G	A1164	205.611	164.735	-31.984	1.00133.67	A16S
ATOM	24534	C4*	G	A1164	205.796	163.233	-32.003	1.00133.67	A16S
ATOM	24535	O4*	G	A1164	206.800	162.830	-31.033	1.00133.67	A16S
ATOM	24536	C1*	G	A1164	206.477	161.547	-30.513	1.00133.67	A16S
ATOM	24537	N9	G	A1164	206.192	161.681	-29.087	1.00132.46	A16S
ATOM	24538	C4	G	A1164	205.997	160.652	-28.198	1.00132.46	A16S
ATOM	24539	N3	G	A1164	206.097	159.335	-28.477	1.00132.46	A16S
ATOM	24540	C2	G	A1164	205.818	158.586	-27.424	1.00132.46	A16S
ATOM	24541	N2	G	A1164	205.889	157.254	-27.517	1.00132.46	A16S
ATOM	24542	N1	G	A1164	205.453	159.091	-26.200	1.00132.46	A16S
ATOM	24543	C6	G	A1164	205.339	160.446	-25.891	1.00132.46	A16S
ATOM	24544	O6	G	A1164	204.993	160.797	-24.754	1.00132.46	A16S
ATOM	24545	C5	G	A1164	205.655	161.259	-27.007	1.00132.46	A16S
ATOM	24546	N7	G	A1164	205.677	162.641	-27.133	1.00132.46	A16S
ATOM	24547	C8	G	A1164	206.008	162.845	-28.378	1.00132.46	A16S
ATOM	24548	C2*	G	A1164	205.217	161.067	-31.234	1.00133.67	A16S
ATOM	24549	O2*	G	A1164	205.558	160.236	-32.327	1.00133.67	A16S
ATOM	24550	C3*	G	A1164	204.586	162.390	-31.648	1.00133.67	A16S
ATOM	24551	O3*	G	A1164	203.662	162.251	-32.711	1.00133.67	A16S
ATOM	24552	P	C	A1165	202.091	162.181	-32.377	1.00133.09	A16S
ATOM	24553	O1P	C	A1165	201.362	162.324	-33.663	1.00114.12	A16S
ATOM	24554	O2P	C	A1165	201.811	163.132	-31.261	1.00114.12	A16S
ATOM	24555	O5*	C	A1165	201.881	160.689	-31.856	1.00133.09	A16S
ATOM	24556	C5*	C	A1165	202.172	159.577	-32.719	1.00133.09	A16S



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ATOM	24557	C4*	C	A1165	201.892	158.269	-32.023	1.00133.09	A16S
ATOM	24558	O4*	C	A1165	202.824	158.075	-30.928	1.00133.09	A16S
ATOM	24559	C1*	C	A1165	202.200	157.313	-29.908	1.00133.09	A16S
ATOM	24560	N1	C	A1165	202.185	158.095	-28.663	1.00114.12	A16S
ATOM	24561	C6	C	A1165	202.070	159.459	-28.684	1.00114.12	A16S
ATOM	24562	C2	C	A1165	202.273	157.412	-27.438	1.00114.12	A16S
ATOM	24563	O2	C	A1165	202.369	156.168	-27.440	1.00114.12	A16S
ATOM	24564	N3	C	A1165	202.245	158.119	-26.287	1.00114.12	A16S
ATOM	24565	C4	C	A1165	202.127	159.446	-26.321	1.00114.12	A16S
ATOM	24566	N4	C	A1165	202.100	160.095	-25.160	1.00114.12	A16S
ATOM	24567	C5	C	A1165	202.033	160.166	-27.549	1.00114.12	A16S
ATOM	24568	C2*	C	A1165	200.779	156.993	-30.366	1.00133.09	A16S
ATOM	24569	O2*	C	A1165	200.755	155.698	-30.928	1.00133.09	A16S
ATOM	24570	C3*	C	A1165	200.525	158.099	-31.383	1.00133.09	A16S
ATOM	24571	O3*	C	A1165	199.516	157.737	-32.316	1.00133.09	A16S
ATOM	24572	P	G	A1166	197.990	158.165	-32.036	1.00136.82	A16S
ATOM	24573	O1P	G	A1166	197.141	157.500	-33.060	1.00130.43	A16S
ATOM	24574	O2P	G	A1166	197.933	159.646	-31.878	1.00130.43	A16S
ATOM	24575	O5*	G	A1166	197.662	157.506	-30.625	1.00136.82	A16S
ATOM	24576	C5*	G	A1166	197.542	156.079	-30.488	1.00136.82	A16S
ATOM	24577	C4*	G	A1166	197.058	155.725	-29.103	1.00136.82	A16S
ATOM	24578	O4*	G	A1166	198.111	155.967	-28.127	1.00136.82	A16S
ATOM	24579	C1*	G	A1166	197.545	156.443	-26.915	1.00136.82	A16S
ATOM	24580	N9	G	A1166	198.005	157.814	-26.702	1.00130.43	A16S
ATOM	24581	C4	G	A1166	198.152	158.472	-25.496	1.00130.43	A16S
ATOM	24582	N3	G	A1166	197.949	157.949	-24.268	1.00130.43	A16S
ATOM	24583	C2	G	A1166	198.131	158.850	-23.312	1.00130.43	A16S
ATOM	24584	N2	G	A1166	197.980	158.507	-22.032	1.00130.43	A16S
ATOM	24585	N1	G	A1166	198.478	160.154	-23.540	1.00130.43	A16S
ATOM	24586	C6	G	A1166	198.693	160.716	-24.791	1.00130.43	A16S
ATOM	24587	O6	G	A1166	198.994	161.912	-24.887	1.00130.43	A16S
ATOM	24588	C5	G	A1166	198.513	159.763	-25.828	1.00130.43	A16S
ATOM	24589	N7	G	A1166	198.632	159.903	-27.204	1.00130.43	A16S
ATOM	24590	C8	G	A1166	198.331	158.726	-27.678	1.00130.43	A16S
ATOM	24591	C2*	G	A1166	196.025	156.410	-27.091	1.00136.82	A16S
ATOM	24592	O2*	G	A1166	195.517	155.175	-26.627	1.00136.82	A16S
ATOM	24593	C3*	G	A1166	195.887	156.547	-28.599	1.00136.82	A16S
ATOM	24594	O3*	G	A1166	194.631	156.106	-29.097	1.00136.82	A16S
ATOM	24595	P	A	A1167	193.499	157.198	-29.441	1.00123.96	A16S
ATOM	24596	O1P	A	A1167	192.241	156.487	-29.782	1.00110.84	A16S
ATOM	24597	O2P	A	A1167	194.081	158.159	-30.408	1.00110.84	A16S
ATOM	24598	O5*	A	A1167	193.286	157.956	-28.056	1.00123.96	A16S
ATOM	24599	C5*	A	A1167	192.177	158.858	-27.851	1.00123.96	A16S
ATOM	24600	C4*	A	A1167	191.476	158.534	-26.547	1.00123.96	A16S
ATOM	24601	O4*	A	A1167	190.798	157.260	-26.673	1.00123.96	A16S
ATOM	24602	C1*	A	A1167	190.897	156.541	-25.458	1.00123.96	A16S
ATOM	24603	N9	A	A1167	191.550	155.261	-25.745	1.00110.84	A16S
ATOM	24604	C4	A	A1167	191.594	154.153	-24.932	1.00110.84	A16S
ATOM	24605	N3	A	A1167	191.084	154.028	-23.696	1.00110.84	A16S
ATOM	24606	C2	A	A1167	191.297	152.804	-23.227	1.00110.84	A16S
ATOM	24607	N1	A	A1167	191.913	151.765	-23.809	1.00110.84	A16S
ATOM	24608	C6	A	A1167	192.413	151.922	-25.053	1.00110.84	A16S
ATOM	24609	N6	A	A1167	193.018	150.882	-25.638	1.00110.84	A16S
ATOM	24610	C5	A	A1167	192.260	153.179	-25.658	1.00110.84	A16S
ATOM	24611	N7	A	A1167	192.655	153.669	-26.893	1.00110.84	A16S
ATOM	24612	C8	A	A1167	192.217	154.905	-26.894	1.00110.84	A16S
ATOM	24613	C2*	A	A1167	191.620	157.426	-24.439	1.00123.96	A16S
ATOM	24614	O2*	A	A1167	190.676	158.095	-23.628	1.00123.96	A16S
ATOM	24615	C3*	A	A1167	192.390	158.379	-25.343	1.00123.96	A16S
ATOM	24616	O3*	A	A1167	192.622	159.630	-24.716	1.00123.96	A16S
ATOM	24617	P	A	A1168	194.098	159.994	-24.196	1.00113.54	A16S
ATOM	24618	O1P	A	A1168	194.132	161.468	-23.982	1.00105.63	A16S
ATOM	24619	O2P	A	A1168	195.063	159.371	-25.143	1.00105.63	A16S
ATOM	24620	O5*	A	A1168	194.211	159.268	-22.774	1.00113.54	A16S
ATOM	24621	C5*	A	A1168	193.387	159.683	-21.653	1.00113.54	A16S
ATOM	24622	C4*	A	A1168	193.187	158.537	-20.678	1.00113.54	A16S
ATOM	24623	O4*	A	A1168	192.578	157.416	-21.371	1.00113.54	A16S
ATOM	24624	C1*	A	A1168	193.094	156.199	-20.864	1.00113.54	A16S
ATOM	24625	N9	A	A1168	193.735	155.478	-21.964	1.00105.63	A16S
ATOM	24626	C4	A	A1168	194.045	154.142	-22.003	1.00105.63	A16S
ATOM	24627	N3	A	A1168	193.827	153.225	-21.051	1.00105.63	A16S
ATOM	24628	C2	A	A1168	194.257	152.034	-21.441	1.00105.63	A16S
ATOM	24629	N1	A	A1168	194.836	151.680	-22.591	1.00105.63	A16S
ATOM	24630	C6	A	A1168	195.037	152.627	-23.528	1.00105.63	A16S
ATOM	24631	N6	A	A1168	195.606	152.277	-24.680	1.00105.63	A16S
ATOM	24632	C5	A	A1168	194.629	153.929	-23.233	1.00105.63	A16S
ATOM	24633	N7	A	A1168	194.692	155.106	-23.957	1.00105.63	A16S



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ATOM	24634	C8	A	A1168	194.152	155.991	-23.163	1.00105.63	A16S
ATOM	24635	C2*	A	A1168	194.057	156.532	-19.722	1.00113.54	A16S
ATOM	24636	O2*	A	A1168	193.379	156.397	-18.493	1.00113.54	A16S
ATOM	24637	C3*	A	A1168	194.447	157.972	-20.041	1.00113.54	A16S
ATOM	24638	O3*	A	A1168	194.779	158.693	-18.858	1.00113.54	A16S
ATOM	24639	P	A	A1169	196.322	158.871	-18.432	1.00 93.57	A16S
ATOM	24640	O1P	A	A1169	196.376	159.782	-17.254	1.00105.91	A16S
ATOM	24641	O2P	A	A1169	197.079	159.221	-19.660	1.00105.91	A16S
ATOM	24642	O5*	A	A1169	196.787	157.421	-17.950	1.00 93.57	A16S
ATOM	24643	C5*	A	A1169	196.438	156.922	-16.637	1.00 93.57	A16S
ATOM	24644	C4*	A	A1169	196.593	155.418	-16.585	1.00 93.57	A16S
ATOM	24645	O4*	A	A1169	195.862	154.853	-17.703	1.00 93.57	A16S
ATOM	24646	C1*	A	A1169	196.575	153.756	-18.237	1.00 93.57	A16S
ATOM	24647	N9	A	A1169	196.964	154.101	-19.603	1.00105.91	A16S
ATOM	24648	C4	A	A1169	197.311	153.224	-20.599	1.00105.91	A16S
ATOM	24649	N3	A	A1169	197.360	151.886	-20.524	1.00105.91	A16S
ATOM	24650	C2	A	A1169	197.738	151.368	-21.685	1.00105.91	A16S
ATOM	24651	N1	A	A1169	198.050	151.989	-22.827	1.00105.91	A16S
ATOM	24652	C6	A	A1169	197.989	153.336	-22.869	1.00105.91	A16S
ATOM	24653	N6	A	A1169	198.295	153.955	-24.012	1.00105.91	A16S
ATOM	24654	C5	A	A1169	197.601	154.004	-21.702	1.00105.91	A16S
ATOM	24655	N7	A	A1169	197.437	155.348	-21.409	1.00105.91	A16S
ATOM	24656	C8	A	A1169	197.063	155.353	-20.156	1.00105.91	A16S
ATOM	24657	C2*	A	A1169	197.779	153.503	-17.331	1.00 93.57	A16S
ATOM	24658	O2*	A	A1169	197.419	152.543	-16.359	1.00 93.57	A16S
ATOM	24659	C3*	A	A1169	198.009	154.882	-16.730	1.00 93.57	A16S
ATOM	24660	O3*	A	A1169	198.652	154.773	-15.468	1.00 93.57	A16S
ATOM	24661	P	G	A1171	200.083	155.465	-15.236	1.00110.71	A16S
ATOM	24662	O1P	G	A1171	200.600	154.977	-13.929	1.00105.49	A16S
ATOM	24663	O2P	G	A1171	199.901	156.921	-15.454	1.00105.49	A16S
ATOM	24664	O5*	G	A1171	201.010	154.893	-16.404	1.00110.71	A16S
ATOM	24665	C5*	G	A1171	201.501	153.533	-16.366	1.00110.71	A16S
ATOM	24666	C4*	G	A1171	201.617	152.961	-17.768	1.00110.71	A16S
ATOM	24667	O4*	G	A1171	200.569	153.539	-18.593	1.00110.71	A16S
ATOM	24668	C1*	G	A1171	201.014	153.639	-19.934	1.00110.71	A16S
ATOM	24669	N9	G	A1171	201.011	155.040	-20.333	1.00105.49	A16S
ATOM	24670	C4	G	A1171	201.200	155.504	-21.609	1.00105.49	A16S
ATOM	24671	N3	G	A1171	201.427	154.740	-22.700	1.00105.49	A16S
ATOM	24672	C2	G	A1171	201.557	155.469	-23.796	1.00105.49	A16S
ATOM	24673	N2	G	A1171	201.795	154.864	-24.982	1.00105.49	A16S
ATOM	24674	N1	G	A1171	201.464	156.842	-23.814	1.00105.49	A16S
ATOM	24675	C6	G	A1171	201.226	157.646	-22.702	1.00105.49	A16S
ATOM	24676	O6	G	A1171	201.143	158.870	-22.835	1.00105.49	A16S
ATOM	24677	C5	G	A1171	201.099	156.874	-21.520	1.00105.49	A16S
ATOM	24678	N7	G	A1171	200.869	157.267	-20.208	1.00105.49	A16S
ATOM	24679	C8	G	A1171	200.825	156.147	-19.539	1.00105.49	A16S
ATOM	24680	C2*	G	A1171	202.426	153.072	-20.004	1.00110.71	A16S
ATOM	24681	O2*	G	A1171	202.357	151.731	-20.444	1.00110.71	A16S
ATOM	24682	C3*	G	A1171	202.892	153.231	-18.560	1.00110.71	A16S
ATOM	24683	O3*	G	A1171	203.944	152.313	-18.275	1.00110.71	A16S
ATOM	24684	P	C	A1172	205.429	152.609	-18.826	1.00117.38	A16S
ATOM	24685	O1P	C	A1172	206.293	151.483	-18.388	1.00109.39	A16S
ATOM	24686	O2P	C	A1172	205.796	154.007	-18.460	1.00109.39	A16S
ATOM	24687	O5*	C	A1172	205.289	152.544	-20.414	1.00117.38	A16S
ATOM	24688	C5*	C	A1172	205.307	151.283	-21.104	1.00117.38	A16S
ATOM	24689	C4*	C	A1172	205.764	151.468	-22.530	1.00117.38	A16S
ATOM	24690	O4*	C	A1172	204.781	152.245	-23.259	1.00117.38	A16S
ATOM	24691	C1*	C	A1172	205.433	153.051	-24.228	1.00117.38	A16S
ATOM	24692	N1	C	A1172	205.153	154.472	-23.946	1.00109.39	A16S
ATOM	24693	C6	C	A1172	204.988	154.923	-22.662	1.00109.39	A16S
ATOM	24694	C2	C	A1172	205.078	155.372	-25.027	1.00109.39	A16S
ATOM	24695	O2	C	A1172	205.210	154.939	-26.186	1.00109.39	A16S
ATOM	24696	N3	C	A1172	204.864	156.685	-24.779	1.00109.39	A16S
ATOM	24697	C4	C	A1172	204.721	157.114	-23.522	1.00109.39	A16S
ATOM	24698	N4	C	A1172	204.527	158.419	-23.329	1.00109.39	A16S
ATOM	24699	C5	C	A1172	204.773	156.222	-22.407	1.00109.39	A16S
ATOM	24700	C2*	C	A1172	206.931	152.759	-24.149	1.00117.38	A16S
ATOM	24701	O2*	C	A1172	207.283	151.816	-25.142	1.00117.38	A16S
ATOM	24702	C3*	C	A1172	207.067	152.230	-22.726	1.00117.38	A16S
ATOM	24703	O3*	C	A1172	208.223	151.413	-22.555	1.00117.38	A16S
ATOM	24704	P	G	A1173	209.645	152.102	-22.233	1.00106.21	A16S
ATOM	24705	O1P	G	A1173	210.611	150.989	-22.051	1.00139.18	A16S
ATOM	24706	O2P	G	A1173	209.476	153.109	-21.143	1.00139.18	A16S
ATOM	24707	O5*	G	A1173	209.997	152.883	-23.579	1.00106.21	A16S
ATOM	24708	C5*	G	A1173	210.178	152.173	-24.823	1.00106.21	A16S
ATOM	24709	C4*	G	A1173	210.516	153.133	-25.940	1.00106.21	A16S
ATOM	24710	O4*	G	A1173	209.338	153.874	-26.344	1.00106.21	A16S



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ATOM	24711	C1*	G	A1173	209.703	155.201	-26.698	1.00106.21	A16S
ATOM	24712	N9	G	A1173	209.019	156.113	-25.785	1.00139.18	A16S
ATOM	24713	C4	G	A1173	208.865	157.476	-25.928	1.00139.18	A16S
ATOM	24714	N3	G	A1173	209.274	158.219	-26.980	1.00139.18	A16S
ATOM	24715	C2	G	A1173	209.016	159.508	-26.803	1.00139.18	A16S
ATOM	24716	N2	G	A1173	209.340	160.393	-27.755	1.00139.18	A16S
ATOM	24717	N1	G	A1173	208.419	160.023	-25.679	1.00139.18	A16S
ATOM	24718	C6	G	A1173	207.995	159.275	-24.583	1.00139.18	A16S
ATOM	24719	O6	G	A1173	207.480	159.840	-23.609	1.00139.18	A16S
ATOM	24720	C5	G	A1173	208.246	157.896	-24.767	1.00139.18	A16S
ATOM	24721	N7	G	A1173	207.974	156.820	-23.935	1.00139.18	A16S
ATOM	24722	C8	G	A1173	208.440	155.786	-24.580	1.00139.18	A16S
ATOM	24723	C2*	G	A1173	211.228	155.312	-26.575	1.00106.21	A16S
ATOM	24724	O2*	G	A1173	211.842	155.138	-27.836	1.00106.21	A16S
ATOM	24725	C3*	G	A1173	211.547	154.191	-25.593	1.00106.21	A16S
ATOM	24726	O3*	G	A1173	212.868	153.689	-25.719	1.00106.21	A16S
ATOM	24727	P	G	A1174	214.017	154.238	-24.744	1.00128.61	A16S
ATOM	24728	O1P	G	A1174	215.236	153.453	-25.032	1.00121.80	A16S
ATOM	24729	O2P	G	A1174	213.491	154.289	-23.360	1.00121.80	A16S
ATOM	24730	O5*	G	A1174	214.254	155.722	-25.264	1.00128.61	A16S
ATOM	24731	C5*	G	A1174	214.613	155.954	-26.634	1.00128.61	A16S
ATOM	24732	C4*	G	A1174	214.511	157.420	-26.972	1.00128.61	A16S
ATOM	24733	O4*	G	A1174	213.127	157.858	-26.909	1.00128.61	A16S
ATOM	24734	C1*	G	A1174	213.083	159.234	-26.542	1.00128.61	A16S
ATOM	24735	N9	G	A1174	212.316	159.396	-25.305	1.00121.80	A16S
ATOM	24736	C4	G	A1174	211.794	160.582	-24.838	1.00121.80	A16S
ATOM	24737	N3	G	A1174	211.876	161.779	-25.458	1.00121.80	A16S
ATOM	24738	C2	G	A1174	211.302	162.739	-24.758	1.00121.80	A16S
ATOM	24739	N2	G	A1174	211.306	163.992	-25.231	1.00121.80	A16S
ATOM	24740	N1	G	A1174	210.685	162.541	-23.543	1.00121.80	A16S
ATOM	24741	C6	G	A1174	210.582	161.316	-22.887	1.00121.80	A16S
ATOM	24742	O6	G	A1174	209.996	161.245	-21.796	1.00121.80	A16S
ATOM	24743	C5	G	A1174	211.205	160.274	-23.628	1.00121.80	A16S
ATOM	24744	N7	G	A1174	211.340	158.921	-23.343	1.00121.80	A16S
ATOM	24745	C8	G	A1174	211.998	158.439	-24.366	1.00121.80	A16S
ATOM	24746	C2*	G	A1174	214.522	159.703	-26.330	1.00128.61	A16S
ATOM	24747	O2*	G	A1174	215.003	160.379	-27.478	1.00128.61	A16S
ATOM	24748	C3*	G	A1174	215.234	158.386	-26.052	1.00128.61	A16S
ATOM	24749	O3*	G	A1174	216.622	158.484	-26.290	1.00128.61	A16S
ATOM	24750	P	G	A1175	217.573	159.055	-25.129	1.00133.11	A16S
ATOM	24751	O1P	G	A1175	218.967	158.931	-25.621	1.00142.81	A16S
ATOM	24752	O2P	G	A1175	217.188	158.412	-23.845	1.00142.81	A16S
ATOM	24753	O5*	G	A1175	217.199	160.603	-25.045	1.00133.11	A16S
ATOM	24754	C5*	G	A1175	217.476	161.488	-26.146	1.00133.11	A16S
ATOM	24755	C4*	G	A1175	217.007	162.892	-25.836	1.00133.11	A16S
ATOM	24756	O4*	G	A1175	215.560	162.909	-25.695	1.00133.11	A16S
ATOM	24757	C1*	G	A1175	215.180	163.901	-24.748	1.00133.11	A16S
ATOM	24758	N9	G	A1175	214.517	163.257	-23.613	1.00142.81	A16S
ATOM	24759	C4	G	A1175	213.846	163.897	-22.592	1.00142.81	A16S
ATOM	24760	N3	G	A1175	213.655	165.230	-22.480	1.00142.81	A16S
ATOM	24761	C2	G	A1175	212.997	165.543	-21.376	1.00142.81	A16S
ATOM	24762	N2	G	A1175	212.723	166.824	-21.103	1.00142.81	A16S
ATOM	24763	N1	G	A1175	212.561	164.623	-20.456	1.00142.81	A16S
ATOM	24764	C6	G	A1175	212.747	163.249	-20.550	1.00142.81	A16S
ATOM	24765	O6	G	A1175	212.320	162.509	-19.659	1.00142.81	A16S
ATOM	24766	C5	G	A1175	213.449	162.896	-21.731	1.00142.81	A16S
ATOM	24767	N7	G	A1175	213.840	161.652	-22.207	1.00142.81	A16S
ATOM	24768	C8	G	A1175	214.462	161.913	-23.325	1.00142.81	A16S
ATOM	24769	C2*	G	A1175	216.457	164.597	-24.281	1.00133.11	A16S
ATOM	24770	O2*	G	A1175	216.666	165.782	-25.026	1.00133.11	A16S
ATOM	24771	C3*	G	A1175	217.501	163.517	-24.541	1.00133.11	A16S
ATOM	24772	O3*	G	A1175	218.815	164.045	-24.608	1.00133.11	A16S
ATOM	24773	P	A	A1176	219.659	164.232	-23.248	1.00143.87	A16S
ATOM	24774	O1P	A	A1176	221.038	164.589	-23.649	1.00123.29	A16S
ATOM	24775	O2P	A	A1176	219.436	163.048	-22.360	1.00123.29	A16S
ATOM	24776	O5*	A	A1176	219.000	165.513	-22.561	1.00143.87	A16S
ATOM	24777	C5*	A	A1176	219.000	166.797	-23.226	1.00143.87	A16S
ATOM	24778	C4*	A	A1176	218.414	167.863	-22.325	1.00143.87	A16S
ATOM	24779	O4*	A	A1176	217.000	167.611	-22.114	1.00143.87	A16S
ATOM	24780	C1*	A	A1176	216.638	167.987	-20.793	1.00143.87	A16S
ATOM	24781	N9	A	A1176	216.070	166.817	-20.109	1.00123.29	A16S
ATOM	24782	C4	A	A1176	215.402	166.815	-18.904	1.00123.29	A16S
ATOM	24783	N3	A	A1176	215.153	167.866	-18.105	1.00123.29	A16S
ATOM	24784	C2	A	A1176	214.474	167.484	-17.026	1.00123.29	A16S
ATOM	24785	N1	A	A1176	214.044	166.265	-16.683	1.00123.29	A16S
ATOM	24786	C6	A	A1176	214.307	165.232	-17.510	1.00123.29	A16S
ATOM	24787	N6	A	A1176	213.863	164.019	-17.179	1.00123.29	A16S



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ATOM	24788	C5	A	A1176	215.029	165.501	-18.682	1.00123.29	A16S
ATOM	24789	N7	A	A1176	215.465	164.684	-19.714	1.00123.29	A16S
ATOM	24790	C8	A	A1176	216.076	165.507	-20.531	1.00123.29	A16S
ATOM	24791	C2*	A	A1176	217.881	168.567	-20.111	1.00143.87	A16S
ATOM	24792	O2*	A	A1176	217.850	169.979	-20.183	1.00143.87	A16S
ATOM	24793	C3*	A	A1176	219.008	167.942	-20.928	1.00143.87	A16S
ATOM	24794	O3*	A	A1176	220.198	168.720	-20.906	1.00143.87	A16S
ATOM	24795	P	G	A1177	221.398	168.313	-19.912	1.00107.61	A16S
ATOM	24796	O1P	G	A1177	222.572	169.133	-20.287	1.00128.17	A16S
ATOM	24797	O2P	G	A1177	221.519	166.834	-19.898	1.00128.17	A16S
ATOM	24798	O5*	G	A1177	220.894	168.788	-18.473	1.00107.61	A16S
ATOM	24799	C5*	G	A1177	220.501	170.156	-18.246	1.00107.61	A16S
ATOM	24800	C4*	G	A1177	219.554	170.248	-17.074	1.00107.61	A16S
ATOM	24801	O4*	G	A1177	218.337	169.523	-17.371	1.00107.61	A16S
ATOM	24802	C1*	G	A1177	217.854	168.903	-16.191	1.00107.61	A16S
ATOM	24803	N9	G	A1177	217.826	167.459	-16.398	1.00128.17	A16S
ATOM	24804	C4	G	A1177	217.182	166.542	-15.605	1.00128.17	A16S
ATOM	24805	N3	G	A1177	216.442	166.824	-14.513	1.00128.17	A16S
ATOM	24806	C2	G	A1177	215.972	165.734	-13.942	1.00128.17	A16S
ATOM	24807	N2	G	A1177	215.219	165.833	-12.834	1.00128.17	A16S
ATOM	24808	N1	G	A1177	216.208	164.464	-14.412	1.00128.17	A16S
ATOM	24809	C6	G	A1177	216.966	164.154	-15.538	1.00128.17	A16S
ATOM	24810	O6	G	A1177	217.123	162.975	-15.872	1.00128.17	A16S
ATOM	24811	C5	G	A1177	217.473	165.315	-16.155	1.00128.17	A16S
ATOM	24812	N7	G	A1177	218.269	165.456	-17.282	1.00128.17	A16S
ATOM	24813	C8	G	A1177	218.450	166.743	-17.390	1.00128.17	A16S
ATOM	24814	C2*	G	A1177	218.790	169.274	-15.039	1.00107.61	A16S
ATOM	24815	O2*	G	A1177	218.250	170.342	-14.293	1.00107.61	A16S
ATOM	24816	C3*	G	A1177	220.065	169.636	-15.784	1.00107.61	A16S
ATOM	24817	O3*	G	A1177	220.832	170.569	-15.055	1.00107.61	A16S
ATOM	24818	P	G	A1178	222.258	170.136	-14.480	1.00112.08	A16S
ATOM	24819	O1P	G	A1178	222.822	171.306	-13.761	1.00120.17	A16S
ATOM	24820	O2P	G	A1178	223.010	169.533	-15.621	1.00120.17	A16S
ATOM	24821	O5*	G	A1178	221.917	169.010	-13.402	1.00112.08	A16S
ATOM	24822	C5*	G	A1178	221.254	169.340	-12.161	1.00112.08	A16S
ATOM	24823	C4*	G	A1178	220.825	168.082	-11.429	1.00112.08	A16S
ATOM	24824	O4*	G	A1178	219.825	167.371	-12.208	1.00112.08	A16S
ATOM	24825	C1*	G	A1178	219.954	165.972	-11.993	1.00112.08	A16S
ATOM	24826	N9	G	A1178	220.220	165.319	-13.274	1.00120.17	A16S
ATOM	24827	C4	G	A1178	219.914	164.019	-13.618	1.00120.17	A16S
ATOM	24828	N3	G	A1178	219.286	163.116	-12.836	1.00120.17	A16S
ATOM	24829	C2	G	A1178	219.140	161.950	-13.445	1.00120.17	A16S
ATOM	24830	N2	G	A1178	218.532	160.936	-12.810	1.00120.17	A16S
ATOM	24831	N1	G	A1178	219.578	161.689	-14.722	1.00120.17	A16S
ATOM	24832	C6	G	A1178	220.228	162.599	-15.547	1.00120.17	A16S
ATOM	24833	O6	G	A1178	220.584	162.257	-16.686	1.00120.17	A16S
ATOM	24834	C5	G	A1178	220.388	163.860	-14.905	1.00120.17	A16S
ATOM	24835	N7	G	A1178	220.966	165.034	-15.364	1.00120.17	A16S
ATOM	24836	C8	G	A1178	220.841	165.869	-14.369	1.00120.17	A16S
ATOM	24837	C2*	G	A1178	221.083	165.761	-10.983	1.00112.08	A16S
ATOM	24838	O2*	G	A1178	220.533	165.644	-9.686	1.00112.08	A16S
ATOM	24839	C3*	G	A1178	221.899	167.037	-11.154	1.00112.08	A16S
ATOM	24840	O3*	G	A1178	222.673	167.332	-9.994	1.00112.08	A16S
ATOM	24841	P	A	A1179	224.253	167.005	-9.991	1.00119.49	A16S
ATOM	24842	O1P	A	A1179	224.862	167.522	-8.732	1.00104.47	A16S
ATOM	24843	O2P	A	A1179	224.806	167.440	-11.305	1.00104.47	A16S
ATOM	24844	O5*	A	A1179	224.312	165.414	-9.924	1.00119.49	A16S
ATOM	24845	C5*	A	A1179	225.570	164.724	-10.033	1.00119.49	A16S
ATOM	24846	C4*	A	A1179	225.442	163.295	-9.554	1.00119.49	A16S
ATOM	24847	O4*	A	A1179	225.204	163.271	-8.119	1.00119.49	A16S
ATOM	24848	C1*	A	A1179	224.362	162.177	-7.793	1.00119.49	A16S
ATOM	24849	N9	A	A1179	223.107	162.709	-7.260	1.00104.47	A16S
ATOM	24850	C4	A	A1179	222.179	162.020	-6.516	1.00104.47	A16S
ATOM	24851	N3	A	A1179	222.255	160.748	-6.096	1.00104.47	A16S
ATOM	24852	C2	A	A1179	221.172	160.423	-5.404	1.00104.47	A16S
ATOM	24853	N1	A	A1179	220.099	161.165	-5.111	1.00104.47	A16S
ATOM	24854	C6	A	A1179	220.051	162.434	-5.555	1.00104.47	A16S
ATOM	24855	N6	A	A1179	218.973	163.164	-5.276	1.00104.47	A16S
ATOM	24856	C5	A	A1179	221.143	162.906	-6.291	1.00104.47	A16S
ATOM	24857	N7	A	A1179	221.416	164.137	-6.865	1.00104.47	A16S
ATOM	24858	C8	A	A1179	222.591	163.971	-7.420	1.00104.47	A16S
ATOM	24859	C2*	A	A1179	224.112	161.395	-9.085	1.00119.49	A16S
ATOM	24860	O2*	A	A1179	225.054	160.346	-9.204	1.00119.49	A16S
ATOM	24861	C3*	A	A1179	224.300	162.481	-10.135	1.00119.49	A16S
ATOM	24862	O3*	A	A1179	224.566	161.969	-11.428	1.00119.49	A16S
ATOM	24863	P	A	A1180	223.357	161.847	-12.482	1.00114.90	A16S
ATOM	24864	O1P	A	A1180	223.903	161.342	-13.766	1.00105.07	A16S



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ATOM	24865	O2P	A	A1180	222.597	163.119	-12.465	1.00105.07	A16S
ATOM	24866	O5*	A	A1180	222.426	160.717	-11.853	1.00114.90	A16S
ATOM	24867	C5*	A	A1180	222.954	159.404	-11.545	1.00114.90	A16S
ATOM	24868	C4*	A	A1180	221.967	158.617	-10.709	1.00114.90	A16S
ATOM	24869	O4*	A	A1180	221.774	159.288	-9.436	1.00114.90	A16S
ATOM	24870	C1*	A	A1180	220.403	159.255	-9.075	1.00114.90	A16S
ATOM	24871	N9	A	A1180	219.914	160.638	-9.100	1.00105.07	A16S
ATOM	24872	C4	A	A1180	218.839	161.164	-8.423	1.00105.07	A16S
ATOM	24873	N3	A	A1180	218.011	160.527	-7.575	1.00105.07	A16S
ATOM	24874	C2	A	A1180	217.075	161.359	-7.121	1.00105.07	A16S
ATOM	24875	N1	A	A1180	216.884	162.655	-7.401	1.00105.07	A16S
ATOM	24876	C6	A	A1180	217.731	163.262	-8.260	1.00105.07	A16S
ATOM	24877	N6	A	A1180	217.534	164.550	-8.557	1.00105.07	A16S
ATOM	24878	C5	A	A1180	218.771	162.494	-8.802	1.00105.07	A16S
ATOM	24879	N7	A	A1180	219.792	162.807	-9.687	1.00105.07	A16S
ATOM	24880	C8	A	A1180	220.441	161.680	-9.829	1.00105.07	A16S
ATOM	24881	C2*	A	A1180	219.686	158.349	-10.084	1.00114.90	A16S
ATOM	24882	O2*	A	A1180	219.645	157.023	-9.592	1.00114.90	A16S
ATOM	24883	C3*	A	A1180	220.578	158.494	-11.312	1.00114.90	A16S
ATOM	24884	O3*	A	A1180	220.507	157.387	-12.200	1.00114.90	A16S
ATOM	24885	P	G	A1181	219.868	157.580	-13.661	1.00122.22	A16S
ATOM	24886	O1P	G	A1181	220.212	156.377	-14.445	1.00111.85	A16S
ATOM	24887	O2P	G	A1181	220.213	158.918	-14.186	1.00111.85	A16S
ATOM	24888	O5*	G	A1181	218.309	157.551	-13.393	1.00122.22	A16S
ATOM	24889	C5*	G	A1181	217.764	156.577	-12.515	1.00122.22	A16S
ATOM	24890	C4*	G	A1181	216.275	156.550	-12.651	1.00122.22	A16S
ATOM	24891	O4*	G	A1181	215.779	157.878	-12.415	1.00122.22	A16S
ATOM	24892	C1*	G	A1181	214.556	158.028	-13.086	1.00122.22	A16S
ATOM	24893	N9	G	A1181	214.449	159.403	-13.546	1.00111.85	A16S
ATOM	24894	C4	G	A1181	213.593	160.338	-13.018	1.00111.85	A16S
ATOM	24895	N3	G	A1181	212.652	160.105	-12.078	1.00111.85	A16S
ATOM	24896	C2	G	A1181	212.017	161.206	-11.731	1.00111.85	A16S
ATOM	24897	N2	G	A1181	211.026	161.146	-10.848	1.00111.85	A16S
ATOM	24898	N1	G	A1181	212.303	162.447	-12.233	1.00111.85	A16S
ATOM	24899	C6	G	A1181	213.273	162.717	-13.188	1.00111.85	A16S
ATOM	24900	O6	G	A1181	213.468	163.882	-13.546	1.00111.85	A16S
ATOM	24901	C5	G	A1181	213.939	161.526	-13.610	1.00111.85	A16S
ATOM	24902	N7	G	A1181	214.941	161.329	-14.554	1.00111.85	A16S
ATOM	24903	C8	G	A1181	215.201	160.049	-14.491	1.00111.85	A16S
ATOM	24904	C2*	G	A1181	214.363	156.860	-14.057	1.00122.22	A16S
ATOM	24905	O2*	G	A1181	213.357	156.034	-13.505	1.00122.22	A16S
ATOM	24906	C3*	G	A1181	215.728	156.170	-14.020	1.00122.22	A16S
ATOM	24907	O3*	G	A1181	215.586	154.747	-14.033	1.00122.22	A16S
ATOM	24908	P	G	A1182	214.981	154.004	-15.318	1.00130.33	A16S
ATOM	24909	O1P	G	A1182	215.567	152.645	-15.267	1.00122.82	A16S
ATOM	24910	O2P	G	A1182	215.194	154.855	-16.514	1.00122.82	A16S
ATOM	24911	O5*	G	A1182	213.403	153.926	-15.065	1.00130.33	A16S
ATOM	24912	C5*	G	A1182	212.827	153.154	-13.976	1.00130.33	A16S
ATOM	24913	C4*	G	A1182	211.359	153.507	-13.808	1.00130.33	A16S
ATOM	24914	O4*	G	A1182	211.294	154.949	-13.733	1.00130.33	A16S
ATOM	24915	C1*	G	A1182	210.266	155.443	-14.564	1.00130.33	A16S
ATOM	24916	N9	G	A1182	210.883	156.325	-15.550	1.00122.82	A16S
ATOM	24917	C4	G	A1182	210.886	157.700	-15.505	1.00122.82	A16S
ATOM	24918	N3	G	A1182	210.283	158.464	-14.566	1.00122.82	A16S
ATOM	24919	N2	G	A1182	210.483	159.753	-14.775	1.00122.82	A16S
ATOM	24920	C2	G	A1182	209.949	160.653	-13.937	1.00122.82	A16S
ATOM	24921	N1	G	A1182	211.220	160.252	-15.820	1.00122.82	A16S
ATOM	24922	C6	G	A1182	211.849	159.485	-16.797	1.00122.82	A16S
ATOM	24923	O6	G	A1182	212.492	160.037	-17.691	1.00122.82	A16S
ATOM	24924	C5	G	A1182	211.637	158.099	-16.589	1.00122.82	A16S
ATOM	24925	N7	G	A1182	212.075	157.001	-17.318	1.00122.82	A16S
ATOM	24926	C8	G	A1182	211.599	155.971	-16.670	1.00122.82	A16S
ATOM	24927	C2*	G	A1182	209.446	154.266	-15.092	1.00130.33	A16S
ATOM	24928	O2*	G	A1182	208.257	154.168	-14.343	1.00130.33	A16S
ATOM	24929	C3*	G	A1182	210.431	153.105	-14.956	1.00130.33	A16S
ATOM	24930	O3*	G	A1182	209.839	151.787	-14.785	1.00130.33	A16S
ATOM	24931	P	A	A1183	208.941	151.430	-13.472	1.00113.29	A16S
ATOM	24932	O1P	A	A1183	208.843	149.950	-13.401	1.00110.25	A16S
ATOM	24933	O2P	A	A1183	207.691	152.232	-13.396	1.00110.25	A16S
ATOM	24934	O5*	A	A1183	209.896	151.833	-12.270	1.00113.29	A16S
ATOM	24935	C5*	A	A1183	209.397	152.525	-11.140	1.00113.29	A16S
ATOM	24936	C4*	A	A1183	209.923	151.885	-9.893	1.00113.29	A16S
ATOM	24937	O4*	A	A1183	209.410	150.542	-9.800	1.00113.29	A16S
ATOM	24938	C1*	A	A1183	210.262	149.798	-8.968	1.00113.29	A16S
ATOM	24939	N9	A	A1183	210.276	148.413	-9.417	1.00110.25	A16S
ATOM	24940	C4	A	A1183	209.831	147.359	-8.659	1.00110.25	A16S
ATOM	24941	N3	A	A1183	209.347	147.406	-7.406	1.00110.25	A16S



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ATOM	24942	C2	A	A1183	209.003	146.194	-6.992	1.00110.25	A16S
ATOM	24943	N1	A	A1183	209.077	145.029	-7.641	1.00110.25	A16S
ATOM	24944	C6	A	A1183	209.562	145.021	-8.903	1.00110.25	A16S
ATOM	24945	N6	A	A1183	209.620	143.863	-9.561	1.00110.25	A16S
ATOM	24946	C5	A	A1183	209.971	146.240	-9.452	1.00110.25	A16S
ATOM	24947	N7	A	A1183	210.511	146.576	-10.685	1.00110.25	A16S
ATOM	24948	C8	A	A1183	210.678	147.876	-10.611	1.00110.25	A16S
ATOM	24949	C2*	A	A1183	211.603	150.527	-8.847	1.00113.29	A16S
ATOM	24950	O2*	A	A1183	211.758	150.888	-7.489	1.00113.29	A16S
ATOM	24951	C3*	A	A1183	211.431	151.709	-9.820	1.00113.29	A16S
ATOM	24952	O3*	A	A1183	211.978	152.978	-9.408	1.00113.29	A16S
ATOM	24953	P	G	A1184	213.324	153.063	-8.518	1.00106.46	A16S
ATOM	24954	O1P	G	A1184	213.906	151.705	-8.318	1.00105.26	A16S
ATOM	24955	O2P	G	A1184	212.998	153.897	-7.320	1.00105.26	A16S
ATOM	24956	O5*	G	A1184	214.343	153.884	-9.436	1.00106.46	A16S
ATOM	24957	C5*	G	A1184	214.899	153.329	-10.660	1.00106.46	A16S
ATOM	24958	C4*	G	A1184	216.389	153.062	-10.497	1.00106.46	A16S
ATOM	24959	O4*	G	A1184	216.997	154.183	-9.792	1.00106.46	A16S
ATOM	24960	C1*	G	A1184	217.996	153.717	-8.896	1.00106.46	A16S
ATOM	24961	N9	G	A1184	217.546	153.981	-7.530	1.00105.26	A16S
ATOM	24962	C4	G	A1184	218.307	153.914	-6.390	1.00105.26	A16S
ATOM	24963	N3	G	A1184	219.623	153.640	-6.333	1.00105.26	A16S
ATOM	24964	C2	G	A1184	220.066	153.633	-5.093	1.00105.26	A16S
ATOM	24965	N2	G	A1184	221.354	153.401	-4.854	1.00105.26	A16S
ATOM	24966	N1	G	A1184	219.280	153.860	-3.995	1.00105.26	A16S
ATOM	24967	C6	G	A1184	217.919	154.139	-4.032	1.00105.26	A16S
ATOM	24968	O6	G	A1184	217.293	154.321	-2.981	1.00105.26	A16S
ATOM	24969	C5	G	A1184	217.435	154.166	-5.352	1.00105.26	A16S
ATOM	24970	N7	G	A1184	216.158	154.416	-5.829	1.00105.26	A16S
ATOM	24971	C8	G	A1184	216.272	154.304	-7.123	1.00105.26	A16S
ATOM	24972	C2*	G	A1184	218.145	152.213	-9.122	1.00106.46	A16S
ATOM	24973	O2*	G	A1184	219.198	151.961	-10.034	1.00106.46	A16S
ATOM	24974	C3*	G	A1184	216.764	151.847	-9.656	1.00106.46	A16S
ATOM	24975	O3*	G	A1184	216.774	150.636	-10.406	1.00106.46	A16S
ATOM	24976	P	G	A1185	216.637	149.226	-9.640	1.00 98.71	A16S
ATOM	24977	O1P	G	A1185	216.652	148.181	-10.688	1.00103.32	A16S
ATOM	24978	O2P	G	A1185	215.505	149.282	-8.676	1.00103.32	A16S
ATOM	24979	O5*	G	A1185	217.989	149.097	-8.811	1.00 98.71	A16S
ATOM	24980	C5*	G	A1185	219.210	148.751	-9.476	1.00 98.71	A16S
ATOM	24981	C4*	G	A1185	220.247	148.310	-8.476	1.00 98.71	A16S
ATOM	24982	O4*	G	A1185	220.699	149.458	-7.715	1.00 98.71	A16S
ATOM	24983	C1*	G	A1185	220.982	149.064	-6.382	1.00 98.71	A16S
ATOM	24984	N9	G	A1185	220.039	149.732	-5.489	1.00103.32	A16S
ATOM	24985	C4	G	A1185	220.136	149.785	-4.125	1.00103.32	A16S
ATOM	24986	N3	G	A1185	221.137	149.266	-3.391	1.00103.32	A16S
ATOM	24987	C2	G	A1185	220.952	149.458	-2.103	1.00103.32	A16S
ATOM	24988	N2	G	A1185	221.871	149.010	-1.230	1.00103.32	A16S
ATOM	24989	N1	G	A1185	219.859	150.104	-1.578	1.00103.32	A16S
ATOM	24990	C6	G	A1185	218.813	150.641	-2.320	1.00103.32	A16S
ATOM	24991	O6	G	A1185	217.868	151.193	-1.748	1.00103.32	A16S
ATOM	24992	C5	G	A1185	219.009	150.451	-3.702	1.00103.32	A16S
ATOM	24993	N7	G	A1185	218.226	150.831	-4.782	1.00103.32	A16S
ATOM	24994	C8	G	A1185	218.878	150.390	-5.823	1.00103.32	A16S
ATOM	24995	C2*	G	A1185	220.789	147.550	-6.295	1.00 98.71	A16S
ATOM	24996	O2*	G	A1185	222.028	146.891	-6.479	1.00 98.71	A16S
ATOM	24997	C3*	G	A1185	219.785	147.320	-7.417	1.00 98.71	A16S
ATOM	24998	O3*	G	A1185	219.738	145.972	-7.860	1.00 98.71	A16S
ATOM	24999	P	G	A1186	218.664	144.969	-7.206	1.00 82.51	A16S
ATOM	25000	O1P	G	A1186	218.768	143.678	-7.937	1.00 98.80	A16S
ATOM	25001	O2P	G	A1186	217.353	145.666	-7.116	1.00 98.80	A16S
ATOM	25002	O5*	G	A1186	219.211	144.748	-5.732	1.00 82.51	A16S
ATOM	25003	C5*	G	A1186	220.478	144.116	-5.526	1.00 82.51	A16S
ATOM	25004	C4*	G	A1186	220.763	143.999	-4.059	1.00 82.51	A16S
ATOM	25005	O4*	G	A1186	220.914	145.330	-3.500	1.00 82.51	A16S
ATOM	25006	C1*	G	A1186	220.419	145.350	-2.166	1.00 82.51	A16S
ATOM	25007	N9	G	A1186	219.313	146.302	-2.076	1.00 98.80	A16S
ATOM	25008	C4	G	A1186	218.720	146.728	-0.915	1.00 98.80	A16S
ATOM	25009	N3	G	A1186	219.096	146.381	0.334	1.00 98.80	A16S
ATOM	25010	C2	G	A1186	218.328	146.935	1.249	1.00 98.80	A16S
ATOM	25011	N2	G	A1186	218.582	146.711	2.544	1.00 98.80	A16S
ATOM	25012	N1	G	A1186	217.257	147.754	0.960	1.00 98.80	A16S
ATOM	25013	C6	G	A1186	216.849	148.118	-0.322	1.00 98.80	A16S
ATOM	25014	O6	G	A1186	215.862	148.854	-0.476	1.00 98.80	A16S
ATOM	25015	C5	G	A1186	217.682	147.543	-1.311	1.00 98.80	A16S
ATOM	25016	N7	G	A1186	217.645	147.657	-2.693	1.00 98.80	A16S
ATOM	25017	C8	G	A1186	218.634	146.911	-3.105	1.00 98.80	A16S
ATOM	25018	C2*	G	A1186	219.925	143.942	-1.840	1.00 82.51	A16S



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ATOM	25019	O2*	G	A1186	220.900	143.226	-1.100	1.00	82.51	A16S
ATOM	25020	C3*	G	A1186	219.650	143.390	-3.234	1.00	82.51	A16S
ATOM	25021	O3*	G	A1186	219.608	141.985	-3.272	1.00	82.51	A16S
ATOM	25022	P	G	A1187	218.389	141.233	-2.556	1.00	88.24	A16S
ATOM	25023	O1P	G	A1187	218.585	139.767	-2.695	1.00	95.55	A16S
ATOM	25024	O2P	G	A1187	217.121	141.861	-3.035	1.00	95.55	A16S
ATOM	25025	O5*	G	A1187	218.611	141.592	-1.020	1.00	88.24	A16S
ATOM	25026	C5*	G	A1187	217.668	141.184	-0.028	1.00	88.24	A16S
ATOM	25027	C4*	G	A1187	218.017	141.778	1.319	1.00	88.24	A16S
ATOM	25028	O4*	G	A1187	218.099	143.229	1.242	1.00	88.24	A16S
ATOM	25029	C1*	G	A1187	217.412	143.809	2.342	1.00	88.24	A16S
ATOM	25030	N9	G	A1187	216.275	144.567	1.810	1.00	95.55	A16S
ATOM	25031	C4	G	A1187	215.327	145.273	2.525	1.00	95.55	A16S
ATOM	25032	N3	G	A1187	215.258	145.381	3.868	1.00	95.55	A16S
ATOM	25033	C2	G	A1187	214.253	146.163	4.250	1.00	95.55	A16S
ATOM	25034	N2	G	A1187	214.050	146.405	5.560	1.00	95.55	A16S
ATOM	25035	N1	G	A1187	213.377	146.772	3.381	1.00	95.55	A16S
ATOM	25036	C6	G	A1187	213.423	146.668	1.997	1.00	95.55	A16S
ATOM	25037	O6	G	A1187	212.585	147.259	1.308	1.00	95.55	A16S
ATOM	25038	C5	G	A1187	214.501	145.845	1.572	1.00	95.55	A16S
ATOM	25039	N7	G	A1187	214.906	145.491	0.294	1.00	95.55	A16S
ATOM	25040	C8	G	A1187	215.952	144.732	0.482	1.00	95.55	A16S
ATOM	25041	C2*	G	A1187	217.028	142.672	3.294	1.00	88.24	A16S
ATOM	25042	O2*	G	A1187	218.050	142.491	4.253	1.00	88.24	A16S
ATOM	25043	C3*	G	A1187	216.933	141.493	2.338	1.00	88.24	A16S
ATOM	25044	O3*	G	A1187	217.160	140.234	2.944	1.00	88.24	A16S
ATOM	25045	P	A	A1188	215.960	139.173	3.017	1.00	91.68	A16S
ATOM	25046	O1P	A	A1188	216.490	137.856	3.486	1.00	86.31	A16S
ATOM	25047	O2P	A	A1188	215.198	139.258	1.729	1.00	86.31	A16S
ATOM	25048	O5*	A	A1188	215.025	139.751	4.171	1.00	91.68	A16S
ATOM	25049	C5*	A	A1188	215.540	139.985	5.499	1.00	91.68	A16S
ATOM	25050	C4*	A	A1188	214.596	140.874	6.272	1.00	91.68	A16S
ATOM	25051	O4*	A	A1188	214.585	142.207	5.709	1.00	91.68	A16S
ATOM	25052	C1*	A	A1188	213.291	142.758	5.824	1.00	91.68	A16S
ATOM	25053	N9	A	A1188	212.829	143.110	4.485	1.00	86.31	A16S
ATOM	25054	C4	A	A1188	211.770	143.932	4.169	1.00	86.31	A16S
ATOM	25055	N3	A	A1188	210.937	144.561	5.018	1.00	86.31	A16S
ATOM	25056	C2	A	A1188	210.045	145.295	4.345	1.00	86.31	A16S
ATOM	25057	N1	A	A1188	209.902	145.458	3.022	1.00	86.31	A16S
ATOM	25058	C6	A	A1188	210.750	144.806	2.199	1.00	86.31	A16S
ATOM	25059	N6	A	A1188	210.606	144.965	0.883	1.00	86.31	A16S
ATOM	25060	C5	A	A1188	211.742	143.995	2.786	1.00	86.31	A16S
ATOM	25061	N7	A	A1188	212.754	143.216	2.241	1.00	86.31	A16S
ATOM	25062	C8	A	A1188	213.364	142.711	3.286	1.00	86.31	A16S
ATOM	25063	C2*	A	A1188	212.407	141.736	6.538	1.00	91.68	A16S
ATOM	25064	O2*	A	A1188	212.412	142.029	7.920	1.00	91.68	A16S
ATOM	25065	C3*	A	A1188	213.145	140.439	6.262	1.00	91.68	A16S
ATOM	25066	O3*	A	A1188	212.926	139.503	7.296	1.00	91.68	A16S
ATOM	25067	P	C	A1189	212.026	138.208	7.013	1.00	76.49	A16S
ATOM	25068	O1P	C	A1189	211.704	137.613	8.328	1.00	92.29	A16S
ATOM	25069	O2P	C	A1189	212.705	137.385	5.991	1.00	92.29	A16S
ATOM	25070	O5*	C	A1189	210.683	138.811	6.394	1.00	76.49	A16S
ATOM	25071	C5*	C	A1189	209.781	139.584	7.216	1.00	76.49	A16S
ATOM	25072	C4*	C	A1189	208.699	140.226	6.380	1.00	76.49	A16S
ATOM	25073	O4*	C	A1189	209.272	141.183	5.461	1.00	76.49	A16S
ATOM	25074	C1*	C	A1189	208.500	141.218	4.274	1.00	76.49	A16S
ATOM	25075	N1	C	A1189	209.364	140.831	3.151	1.00	92.29	A16S
ATOM	25076	C6	C	A1189	210.388	139.938	3.328	1.00	92.29	A16S
ATOM	25077	C2	C	A1189	209.127	141.399	1.894	1.00	92.29	A16S
ATOM	25078	O2	C	A1189	208.166	142.187	1.754	1.00	92.29	A16S
ATOM	25079	N3	C	A1189	209.944	141.072	0.864	1.00	92.29	A16S
ATOM	25080	C4	C	A1189	210.951	140.213	1.055	1.00	92.29	A16S
ATOM	25081	N4	C	A1189	211.742	139.935	0.018	1.00	92.29	A16S
ATOM	25082	C5	C	A1189	211.196	139.605	2.319	1.00	92.29	A16S
ATOM	25083	C2*	C	A1189	207.324	140.265	4.454	1.00	76.49	A16S
ATOM	25084	O2*	C	A1189	206.221	141.026	4.914	1.00	76.49	A16S
ATOM	25085	C3*	C	A1189	207.868	139.307	5.507	1.00	76.49	A16S
ATOM	25086	O3*	C	A1189	206.835	138.733	6.276	1.00	76.49	A16S
ATOM	25087	P	G	A1190	206.834	137.155	6.543	1.00	88.82	A16S
ATOM	25088	O1P	G	A1190	205.848	136.951	7.629	1.00	114.65	A16S
ATOM	25089	O2P	G	A1190	208.223	136.665	6.705	1.00	114.65	A16S
ATOM	25090	O5*	G	A1190	206.250	136.554	5.200	1.00	88.82	A16S
ATOM	25091	C5*	G	A1190	204.972	136.962	4.729	1.00	88.82	A16S
ATOM	25092	C4*	G	A1190	204.640	136.217	3.476	1.00	88.82	A16S
ATOM	25093	O4*	G	A1190	205.752	136.389	2.574	1.00	88.82	A16S
ATOM	25094	C1*	G	A1190	205.906	135.226	1.793	1.00	88.82	A16S
ATOM	25095	N9	G	A1190	207.294	134.785	1.883	1.00	114.65	A16S



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ATOM	25096	C4	G	A1190	208.013	134.145	0.900	1.00114.65	A16S
ATOM	25097	N3	G	A1190	207.545	133.773	-0.312	1.00114.65	A16S
ATOM	25098	C2	G	A1190	208.484	133.208	-1.053	1.00114.65	A16S
ATOM	25099	N2	G	A1190	208.195	132.788	-2.288	1.00114.65	A16S
ATOM	25100	N1	G	A1190	209.779	133.018	-0.638	1.00114.65	A16S
ATOM	25101	C6	G	A1190	210.286	133.393	0.606	1.00114.65	A16S
ATOM	25102	O6	G	A1190	211.484	133.181	0.881	1.00114.65	A16S
ATOM	25103	C5	G	A1190	209.285	134.004	1.412	1.00114.65	A16S
ATOM	25104	N7	G	A1190	209.358	134.519	2.698	1.00114.65	A16S
ATOM	25105	C8	G	A1190	208.154	134.960	2.938	1.00114.65	A16S
ATOM	25106	C2*	G	A1190	204.815	134.228	2.196	1.00 88.82	A16S
ATOM	25107	O2*	G	A1190	203.744	134.432	1.299	1.00 88.82	A16S
ATOM	25108	C3*	G	A1190	204.431	134.707	3.590	1.00 88.82	A16S
ATOM	25109	O3*	G	A1190	203.046	134.507	3.969	1.00 88.82	A16S
ATOM	25110	P	A	A1191	202.180	133.224	3.458	1.00 66.89	A16S
ATOM	25111	O1P	A	A1191	202.957	132.369	2.543	1.00 97.93	A16S
ATOM	25112	O2P	A	A1191	201.541	132.600	4.645	1.00 97.93	A16S
ATOM	25113	O5*	A	A1191	200.991	133.911	2.649	1.00 66.89	A16S
ATOM	25114	C5*	A	A1191	200.373	135.101	3.172	1.00 66.89	A16S
ATOM	25115	C4*	A	A1191	199.048	135.369	2.496	1.00 66.89	A16S
ATOM	25116	O4*	A	A1191	199.272	135.672	1.096	1.00 66.89	A16S
ATOM	25117	C1*	A	A1191	198.212	135.150	0.329	1.00 66.89	A16S
ATOM	25118	N9	A	A1191	198.791	134.195	-0.608	1.00 97.93	A16S
ATOM	25119	C4	A	A1191	198.173	133.647	-1.701	1.00 97.93	A16S
ATOM	25120	N3	A	A1191	196.917	133.862	-2.119	1.00 97.93	A16S
ATOM	25121	C2	A	A1191	196.667	133.171	-3.219	1.00 97.93	A16S
ATOM	25122	N1	A	A1191	197.466	132.353	-3.900	1.00 97.93	A16S
ATOM	25123	C6	A	A1191	198.724	132.156	-3.455	1.00 97.93	A16S
ATOM	25124	N6	A	A1191	199.527	131.338	-4.142	1.00 97.93	A16S
ATOM	25125	C5	A	A1191	199.113	132.829	-2.290	1.00 97.93	A16S
ATOM	25126	N7	A	A1191	200.300	132.847	-1.572	1.00 97.93	A16S
ATOM	25127	C8	A	A1191	200.057	133.669	-0.587	1.00 97.93	A16S
ATOM	25128	C2*	A	A1191	197.176	134.532	1.283	1.00 66.89	A16S
ATOM	25129	O2*	A	A1191	196.116	135.448	1.483	1.00 66.89	A16S
ATOM	25130	C3*	A	A1191	198.009	134.253	2.537	1.00 66.89	A16S
ATOM	25131	O3*	A	A1191	197.219	134.355	3.737	1.00 66.89	A16S
ATOM	25132	P	C	A1192	196.763	133.025	4.535	1.00 65.73	A16S
ATOM	25133	O1P	C	A1192	196.159	133.452	5.832	1.00 95.33	A16S
ATOM	25134	O2P	C	A1192	197.891	132.053	4.538	1.00 95.33	A16S
ATOM	25135	O5*	C	A1192	195.597	132.417	3.633	1.00 65.73	A16S
ATOM	25136	C5*	C	A1192	194.261	132.976	3.648	1.00 65.73	A16S
ATOM	25137	C4*	C	A1192	193.319	132.088	2.866	1.00 65.73	A16S
ATOM	25138	O4*	C	A1192	193.588	132.219	1.443	1.00 65.73	A16S
ATOM	25139	C1*	C	A1192	193.509	130.938	0.822	1.00 65.73	A16S
ATOM	25140	N1	C	A1192	194.845	130.596	0.255	1.00 95.33	A16S
ATOM	25141	C6	C	A1192	195.986	131.171	0.752	1.00 95.33	A16S
ATOM	25142	C2	C	A1192	194.934	129.653	-0.792	1.00 95.33	A16S
ATOM	25143	O2	C	A1192	193.898	129.179	-1.268	1.00 95.33	A16S
ATOM	25144	N3	C	A1192	196.152	129.294	-1.258	1.00 95.33	A16S
ATOM	25145	C4	C	A1192	197.255	129.845	-0.744	1.00 95.33	A16S
ATOM	25146	N4	C	A1192	198.437	129.438	-1.213	1.00 95.33	A16S
ATOM	25147	C5	C	A1192	197.198	130.831	0.283	1.00 95.33	A16S
ATOM	25148	C2*	C	A1192	193.057	129.930	1.887	1.00 65.73	A16S
ATOM	25149	O2*	C	A1192	191.664	129.721	1.884	1.00 65.73	A16S
ATOM	25150	C3*	C	A1192	193.501	130.611	3.166	1.00 65.73	A16S
ATOM	25151	O3*	C	A1192	192.745	130.163	4.267	1.00 65.73	A16S
ATOM	25152	P	G	A1193	193.177	128.808	5.004	1.00 73.45	A16S
ATOM	25153	O1P	G	A1193	192.146	128.421	6.003	1.00 92.59	A16S
ATOM	25154	O2P	G	A1193	194.606	128.976	5.432	1.00 92.59	A16S
ATOM	25155	O5*	G	A1193	193.112	127.727	3.840	1.00 73.45	A16S
ATOM	25156	C5*	G	A1193	194.019	126.603	3.819	1.00 73.45	A16S
ATOM	25157	C4*	G	A1193	194.310	126.198	2.393	1.00 73.45	A16S
ATOM	25158	O4*	G	A1193	194.941	127.299	1.678	1.00 73.45	A16S
ATOM	25159	C1*	G	A1193	195.918	126.787	0.786	1.00 73.45	A16S
ATOM	25160	N9	G	A1193	197.227	127.318	1.180	1.00 92.59	A16S
ATOM	25161	C4	G	A1193	198.449	127.002	0.619	1.00 92.59	A16S
ATOM	25162	N3	G	A1193	198.653	126.160	-0.415	1.00 92.59	A16S
ATOM	25163	C2	G	A1193	199.937	126.022	-0.697	1.00 92.59	A16S
ATOM	25164	N2	G	A1193	200.311	125.202	-1.691	1.00 92.59	A16S
ATOM	25165	N1	G	A1193	200.945	126.669	-0.023	1.00 92.59	A16S
ATOM	25166	C6	G	A1193	200.763	127.545	1.038	1.00 92.59	A16S
ATOM	25167	O6	G	A1193	201.745	128.069	1.577	1.00 92.59	A16S
ATOM	25168	C5	G	A1193	199.382	127.699	1.355	1.00 92.59	A16S
ATOM	25169	N7	G	A1193	198.764	128.457	2.339	1.00 92.59	A16S
ATOM	25170	C8	G	A1193	197.491	128.205	2.194	1.00 92.59	A16S
ATOM	25171	C2*	G	A1193	195.843	125.254	0.857	1.00 73.45	A16S
ATOM	25172	O2*	G	A1193	194.977	124.759	-0.146	1.00 73.45	A16S



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ATOM	25173	C3*	G	A1193	195.273	125.036	2.248	1.00	73.45	A16S
ATOM	25174	O3*	G	A1193	194.591	123.805	2.357	1.00	73.45	A16S
ATOM	25175	P	U	A1194	195.314	122.561	3.058	1.00	87.21	A16S
ATOM	25176	O1P	U	A1194	194.321	121.476	3.218	1.00	84.42	A16S
ATOM	25177	O2P	U	A1194	196.042	123.068	4.245	1.00	84.42	A16S
ATOM	25178	O5*	U	A1194	196.361	122.077	1.960	1.00	87.21	A16S
ATOM	25179	C5*	U	A1194	195.931	121.788	0.608	1.00	87.21	A16S
ATOM	25180	C4*	U	A1194	197.103	121.341	-0.249	1.00	87.21	A16S
ATOM	25181	O4*	U	A1194	197.989	122.450	-0.547	1.00	87.21	A16S
ATOM	25182	C1*	U	A1194	199.324	121.989	-0.584	1.00	87.21	A16S
ATOM	25183	N1	U	A1194	200.111	122.768	0.386	1.00	84.42	A16S
ATOM	25184	C6	U	A1194	199.503	123.440	1.420	1.00	84.42	A16S
ATOM	25185	C2	U	A1194	201.492	122.804	0.233	1.00	84.42	A16S
ATOM	25186	O2	U	A1194	202.084	122.230	-0.675	1.00	84.42	A16S
ATOM	25187	N3	U	A1194	202.158	123.539	1.185	1.00	84.42	A16S
ATOM	25188	C4	U	A1194	201.606	124.227	2.242	1.00	84.42	A16S
ATOM	25189	O4	U	A1194	202.342	124.826	3.024	1.00	84.42	A16S
ATOM	25190	C5	U	A1194	200.185	124.148	2.325	1.00	84.42	A16S
ATOM	25191	C2*	U	A1194	199.318	120.474	-0.325	1.00	87.21	A16S
ATOM	25192	O2*	U	A1194	199.403	119.764	-1.542	1.00	87.21	A16S
ATOM	25193	C3*	U	A1194	197.976	120.263	0.363	1.00	87.21	A16S
ATOM	25194	O3*	U	A1194	197.428	118.994	0.039	1.00	87.21	A16S
ATOM	25195	P	C	A1195	197.337	117.846	1.160	1.00	72.25	A16S
ATOM	25196	O1P	C	A1195	196.307	116.867	0.712	1.00103.59	A16S	
ATOM	25197	O2P	C	A1195	197.222	118.490	2.504	1.00103.59	A16S	
ATOM	25198	O5*	C	A1195	198.740	117.120	1.072	1.00	72.25	A16S
ATOM	25199	C5*	C	A1195	199.252	116.719	-0.191	1.00	72.25	A16S
ATOM	25200	C4*	C	A1195	200.730	116.558	-0.096	1.00	72.25	A16S
ATOM	25201	O4*	C	A1195	201.347	117.852	0.053	1.00	72.25	A16S
ATOM	25202	C1*	C	A1195	202.458	117.736	0.914	1.00	72.25	A16S
ATOM	25203	N1	C	A1195	202.416	118.847	1.895	1.00103.59	A16S	
ATOM	25204	C6	C	A1195	201.239	119.251	2.463	1.00103.59	A16S	
ATOM	25205	C2	C	A1195	203.615	119.517	2.209	1.00103.59	A16S	
ATOM	25206	O2	C	A1195	204.681	119.107	1.718	1.00103.59	A16S	
ATOM	25207	N3	C	A1195	203.579	120.590	3.037	1.00103.59	A16S	
ATOM	25208	C4	C	A1195	202.420	120.995	3.551	1.00103.59	A16S	
ATOM	25209	N4	C	A1195	202.430	122.073	4.330	1.00103.59	A16S	
ATOM	25210	C5	C	A1195	201.196	120.315	3.283	1.00103.59	A16S	
ATOM	25211	C2*	C	A1195	202.565	116.283	1.406	1.00	72.25	A16S
ATOM	25212	O2*	C	A1195	203.601	115.666	0.664	1.00	72.25	A16S
ATOM	25213	C3*	C	A1195	201.167	115.730	1.100	1.00	72.25	A16S
ATOM	25214	O3*	C	A1195	201.087	114.365	0.657	1.00	72.25	A16S
ATOM	25215	P	U	A1196	201.538	113.154	1.605	1.00103.28	A16S	
ATOM	25216	O1P	U	A1196	202.839	113.513	2.189	1.00103.33	A16S	
ATOM	25217	O2P	U	A1196	201.423	111.928	0.793	1.00103.33	A16S	
ATOM	25218	O5*	U	A1196	200.441	113.069	2.761	1.00103.28	A16S	
ATOM	25219	C5*	U	A1196	200.095	114.230	3.538	1.00103.28	A16S	
ATOM	25220	C4*	U	A1196	199.911	113.882	5.005	1.00103.28	A16S	
ATOM	25221	O4*	U	A1196	198.622	113.269	5.259	1.00103.28	A16S	
ATOM	25222	C1*	U	A1196	198.667	112.663	6.538	1.00103.28	A16S	
ATOM	25223	N1	U	A1196	197.845	111.443	6.562	1.00103.33	A16S	
ATOM	25224	C6	U	A1196	198.373	110.207	6.268	1.00103.33	A16S	
ATOM	25225	C2	U	A1196	196.511	111.579	6.933	1.00103.33	A16S	
ATOM	25226	O2	U	A1196	195.986	112.657	7.164	1.00103.33	A16S	
ATOM	25227	N3	U	A1196	195.814	110.403	7.020	1.00103.33	A16S	
ATOM	25228	C4	U	A1196	196.291	109.134	6.764	1.00103.33	A16S	
ATOM	25229	O4	U	A1196	195.540	108.168	6.903	1.00103.33	A16S	
ATOM	25230	C5	U	A1196	197.663	109.080	6.354	1.00103.33	A16S	
ATOM	25231	C2*	U	A1196	200.137	112.485	6.943	1.00103.28	A16S	
ATOM	25232	O2*	U	A1196	200.428	113.264	8.092	1.00103.28	A16S	
ATOM	25233	C3*	U	A1196	200.877	112.915	5.674	1.00103.28	A16S	
ATOM	25234	O3*	U	A1196	202.197	113.438	5.881	1.00103.28	A16S	
ATOM	25235	P	G	A1197	202.464	114.729	6.823	1.00	75.10	A16S
ATOM	25236	O1P	G	A1197	203.285	114.205	7.916	1.00	86.42	A16S
ATOM	25237	O2P	G	A1197	201.240	115.542	7.141	1.00	86.42	A16S
ATOM	25238	O5*	G	A1197	203.418	115.598	5.890	1.00	75.10	A16S
ATOM	25239	C5*	G	A1197	203.827	115.072	4.598	1.00	75.10	A16S
ATOM	25240	C4*	G	A1197	205.249	115.453	4.293	1.00	75.10	A16S
ATOM	25241	O4*	G	A1197	205.283	116.809	3.796	1.00	75.10	A16S
ATOM	25242	C1*	G	A1197	206.298	117.532	4.453	1.00	75.10	A16S
ATOM	25243	N9	G	A1197	205.620	118.524	5.285	1.00	86.42	A16S
ATOM	25244	C4	G	A1197	206.185	119.589	5.945	1.00	86.42	A16S
ATOM	25245	N3	G	A1197	207.492	119.918	5.950	1.00	86.42	A16S
ATOM	25246	C2	G	A1197	207.722	120.998	6.670	1.00	86.42	A16S
ATOM	25247	N2	G	A1197	208.965	121.476	6.771	1.00	86.42	A16S
ATOM	25248	N1	G	A1197	206.751	121.695	7.338	1.00	86.42	A16S
ATOM	25249	C6	G	A1197	205.398	121.376	7.344	1.00	86.42	A16S



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ATOM	25250	O6	G	A1197	204.600	122.079	7.967	1.00	86.42	A16S
ATOM	25251	C5	G	A1197	205.135	120.224	6.576	1.00	86.42	A16S
ATOM	25252	N7	G	A1197	203.936	119.571	6.321	1.00	86.42	A16S
ATOM	25253	C8	G	A1197	204.270	118.572	5.557	1.00	86.42	A16S
ATOM	25254	C2*	G	A1197	207.163	116.516	5.213	1.00	75.10	A16S
ATOM	25255	O2*	G	A1197	208.217	116.076	4.380	1.00	75.10	A16S
ATOM	25256	C3*	G	A1197	206.154	115.413	5.504	1.00	75.10	A16S
ATOM	25257	O3*	G	A1197	206.719	114.118	5.645	1.00	75.10	A16S
ATOM	25258	P	G	A1198	206.952	113.516	7.113	1.00	72.83	A16S
ATOM	25259	O1P	G	A1198	207.740	112.257	6.991	1.00	84.72	A16S
ATOM	25260	O2P	G	A1198	205.637	113.487	7.793	1.00	84.72	A16S
ATOM	25261	O5*	G	A1198	207.888	114.614	7.794	1.00	72.83	A16S
ATOM	25262	C5*	G	A1198	209.152	114.953	7.194	1.00	72.83	A16S
ATOM	25263	C4*	G	A1198	209.953	115.877	8.082	1.00	72.83	A16S
ATOM	25264	O4*	G	A1198	209.607	117.274	7.875	1.00	72.83	A16S
ATOM	25265	C1*	G	A1198	209.822	117.997	9.080	1.00	72.83	A16S
ATOM	25266	N9	G	A1198	208.565	118.612	9.498	1.00	84.72	A16S
ATOM	25267	C4	G	A1198	208.429	119.768	10.222	1.00	84.72	A16S
ATOM	25268	N3	G	A1198	209.432	120.571	10.629	1.00	84.72	A16S
ATOM	25269	C2	G	A1198	208.983	121.624	11.291	1.00	84.72	A16S
ATOM	25270	N2	G	A1198	209.840	122.570	11.710	1.00	84.72	A16S
ATOM	25271	N1	G	A1198	207.661	121.841	11.574	1.00	84.72	A16S
ATOM	25272	C6	G	A1198	206.616	121.012	11.188	1.00	84.72	A16S
ATOM	25273	O6	G	A1198	205.459	121.279	11.531	1.00	84.72	A16S
ATOM	25274	C5	G	A1198	207.077	119.911	10.430	1.00	84.72	A16S
ATOM	25275	N7	G	A1198	206.374	118.884	9.824	1.00	84.72	A16S
ATOM	25276	C8	G	A1198	207.296	118.140	9.280	1.00	84.72	A16S
ATOM	25277	C2*	G	A1198	210.332	117.003	10.127	1.00	72.83	A16S
ATOM	25278	O2*	G	A1198	211.737	117.058	10.153	1.00	72.83	A16S
ATOM	25279	C3*	G	A1198	209.824	115.677	9.576	1.00	72.83	A16S
ATOM	25280	O3*	G	A1198	210.558	114.567	10.035	1.00	72.83	A16S
ATOM	25281	P	U	A1199	210.096	113.845	11.382	1.00	76.53	A16S
ATOM	25282	O1P	U	A1199	210.950	112.644	11.613	1.00	82.60	A16S
ATOM	25283	O2P	U	A1199	208.615	113.695	11.353	1.00	82.60	A16S
ATOM	25284	O5*	U	A1199	210.433	114.938	12.486	1.00	76.53	A16S
ATOM	25285	C5*	U	A1199	211.786	115.387	12.694	1.00	76.53	A16S
ATOM	25286	C4*	U	A1199	211.817	116.466	13.745	1.00	76.53	A16S
ATOM	25287	O4*	U	A1199	211.080	117.618	13.267	1.00	76.53	A16S
ATOM	25288	C1*	U	A1199	210.371	118.208	14.335	1.00	76.53	A16S
ATOM	25289	N1	U	A1199	208.946	118.227	13.984	1.00	82.60	A16S
ATOM	25290	C6	U	A1199	208.289	117.101	13.541	1.00	82.60	A16S
ATOM	25291	C2	U	A1199	208.287	119.424	14.110	1.00	82.60	A16S
ATOM	25292	O2	U	A1199	208.841	120.442	14.495	1.00	82.60	A16S
ATOM	25293	N3	U	A1199	206.959	119.393	13.768	1.00	82.60	A16S
ATOM	25294	C4	U	A1199	206.243	118.310	13.318	1.00	82.60	A16S
ATOM	25295	O4	U	A1199	205.048	118.445	13.045	1.00	82.60	A16S
ATOM	25296	C5	U	A1199	206.999	117.104	13.211	1.00	82.60	A16S
ATOM	25297	C2*	U	A1199	210.688	117.428	15.612	1.00	76.53	A16S
ATOM	25298	O2*	U	A1199	211.672	118.140	16.343	1.00	76.53	A16S
ATOM	25299	C3*	U	A1199	211.147	116.084	15.050	1.00	76.53	A16S
ATOM	25300	O3*	U	A1199	212.064	115.399	15.881	1.00	76.53	A16S
ATOM	25301	P	C	A1200	211.639	114.008	16.539	1.00102.03	A16S	
ATOM	25302	O1P	C	A1200	212.855	113.377	17.097	1.00104.05	A16S	
ATOM	25303	O2P	C	A1200	210.823	113.268	15.560	1.00104.05	A16S	
ATOM	25304	O5*	C	A1200	210.691	114.433	17.738	1.00102.03	A16S	
ATOM	25305	C5*	C	A1200	210.531	113.574	18.873	1.00102.03	A16S	
ATOM	25306	C4*	C	A1200	209.598	114.203	19.872	1.00102.03	A16S	
ATOM	25307	O4*	C	A1200	208.295	114.366	19.276	1.00102.03	A16S	
ATOM	25308	C1*	C	A1200	207.328	114.356	20.295	1.00102.03	A16S	
ATOM	25309	N1	C	A1200	206.128	113.635	19.848	1.00104.05	A16S	
ATOM	25310	C6	C	A1200	206.118	112.938	18.677	1.00104.05	A16S	
ATOM	25311	C2	C	A1200	204.976	113.704	20.633	1.00104.05	A16S	
ATOM	25312	O2	C	A1200	205.016	114.306	21.716	1.00104.05	A16S	
ATOM	25313	N3	C	A1200	203.847	113.116	20.201	1.00104.05	A16S	
ATOM	25314	C4	C	A1200	203.837	112.470	19.043	1.00104.05	A16S	
ATOM	25315	N4	C	A1200	202.685	111.932	18.647	1.00104.05	A16S	
ATOM	25316	C5	C	A1200	205.002	112.350	18.239	1.00104.05	A16S	
ATOM	25317	C2*	C	A1200	207.983	113.887	21.597	1.00102.03	A16S	
ATOM	25318	O2*	C	A1200	208.117	115.015	22.445	1.00102.03	A16S	
ATOM	25319	C3*	C	A1200	209.351	113.394	21.137	1.00102.03	A16S	
ATOM	25320	O3*	C	A1200	210.263	113.847	22.132	1.00102.03	A16S	
ATOM	25321	P	A	A1201	211.512	112.948	22.580	1.00	79.03	A16S
ATOM	25322	O1P	A	A1201	211.393	111.573	21.994	1.00	83.22	A16S
ATOM	25323	O2P	A	A1201	211.577	113.105	24.058	1.00	83.22	A16S
ATOM	25324	O5*	A	A1201	212.764	113.741	21.965	1.00	79.03	A16S
ATOM	25325	C5*	A	A1201	212.975	115.149	22.282	1.00	79.03	A16S
ATOM	25326	C4*	A	A1201	213.974	115.805	21.331	1.00	79.03	A16S



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ATOM	25327	O4*	A	A1201	215.311	115.304	21.568	1.00	79.03	A16S
ATOM	25328	C1*	A	A1201	215.897	114.855	20.361	1.00	79.03	A16S
ATOM	25329	N9	A	A1201	216.442	113.521	20.620	1.00	83.22	A16S
ATOM	25330	C4	A	A1201	217.705	113.056	20.345	1.00	83.22	A16S
ATOM	25331	N3	A	A1201	218.725	113.736	19.795	1.00	83.22	A16S
ATOM	25332	C2	A	A1201	219.797	112.951	19.668	1.00	83.22	A16S
ATOM	25333	N1	A	A1201	219.950	111.657	20.002	1.00	83.22	A16S
ATOM	25334	C6	A	A1201	218.900	111.003	20.550	1.00	83.22	A16S
ATOM	25335	N6	A	A1201	219.042	109.711	20.870	1.00	83.22	A16S
ATOM	25336	C5	A	A1201	217.712	111.726	20.743	1.00	83.22	A16S
ATOM	25337	N7	A	A1201	216.485	111.366	21.271	1.00	83.22	A16S
ATOM	25338	C8	A	A1201	215.771	112.461	21.181	1.00	83.22	A16S
ATOM	25339	C2*	A	A1201	214.795	114.759	19.308	1.00	79.03	A16S
ATOM	25340	O2*	A	A1201	215.259	115.048	18.003	1.00	79.03	A16S
ATOM	25341	C3*	A	A1201	213.723	115.711	19.832	1.00	79.03	A16S
ATOM	25342	O3*	A	A1201	213.457	116.968	19.176	1.00	79.03	A16S
ATOM	25343	P	G	A1202	214.638	118.002	18.840	1.00	80.99	A16S
ATOM	25344	O1P	G	A1202	214.111	118.918	17.796	1.00	108.47	A16S
ATOM	25345	O2P	G	A1202	215.920	117.290	18.603	1.00	108.47	A16S
ATOM	25346	O5*	G	A1202	214.740	118.866	20.176	1.00	80.99	A16S
ATOM	25347	C5*	G	A1202	215.955	118.901	20.943	1.00	80.99	A16S
ATOM	25348	C4*	G	A1202	215.935	120.054	21.913	1.00	80.99	A16S
ATOM	25349	O4*	G	A1202	215.866	121.301	21.174	1.00	80.99	A16S
ATOM	25350	C1*	G	A1202	215.075	122.235	21.887	1.00	80.99	A16S
ATOM	25351	N9	G	A1202	213.914	122.582	21.070	1.00	108.47	A16S
ATOM	25352	C4	G	A1202	213.123	123.701	21.208	1.00	108.47	A16S
ATOM	25353	N3	G	A1202	213.293	124.683	22.117	1.00	108.47	A16S
ATOM	25354	C2	G	A1202	212.376	125.633	22.001	1.00	108.47	A16S
ATOM	25355	N2	G	A1202	212.409	126.698	22.824	1.00	108.47	A16S
ATOM	25356	N1	G	A1202	211.365	125.614	21.070	1.00	108.47	A16S
ATOM	25357	C6	G	A1202	211.164	124.614	20.129	1.00	108.47	A16S
ATOM	25358	O6	G	A1202	210.212	124.698	19.343	1.00	108.47	A16S
ATOM	25359	C5	G	A1202	212.153	123.589	20.237	1.00	108.47	A16S
ATOM	25360	N7	G	A1202	212.332	122.427	19.499	1.00	108.47	A16S
ATOM	25361	C8	G	A1202	213.384	121.863	20.028	1.00	108.47	A16S
ATOM	25362	C2*	G	A1202	214.666	121.577	23.206	1.00	80.99	A16S
ATOM	25363	O2*	G	A1202	215.572	121.927	24.235	1.00	80.99	A16S
ATOM	25364	C3*	G	A1202	214.742	120.099	22.852	1.00	80.99	A16S
ATOM	25365	O3*	G	A1202	214.895	119.267	24.004	1.00	80.99	A16S
ATOM	25366	P	C	A1203	213.581	118.698	24.748	1.00	72.01	A16S
ATOM	25367	O1P	C	A1203	213.993	118.150	26.073	1.00	109.05	A16S
ATOM	25368	O2P	C	A1203	212.836	117.828	23.806	1.00	109.05	A16S
ATOM	25369	O5*	C	A1203	212.708	120.012	24.995	1.00	72.01	A16S
ATOM	25370	C5*	C	A1203	213.239	121.106	25.781	1.00	72.01	A16S
ATOM	25371	C4*	C	A1203	212.235	122.230	25.888	1.00	72.01	A16S
ATOM	25372	O4*	C	A1203	212.145	122.953	24.634	1.00	72.01	A16S
ATOM	25373	C1*	C	A1203	210.794	123.304	24.381	1.00	72.01	A16S
ATOM	25374	N1	C	A1203	210.337	122.517	23.214	1.00	109.05	A16S
ATOM	25375	C6	C	A1203	210.935	121.326	22.899	1.00	109.05	A16S
ATOM	25376	C2	C	A1203	209.261	122.993	22.442	1.00	109.05	A16S
ATOM	25377	O2	C	A1203	208.736	124.084	22.736	1.00	109.05	A16S
ATOM	25378	N3	C	A1203	208.818	122.247	21.403	1.00	109.05	A16S
ATOM	25379	C4	C	A1203	209.395	121.075	21.128	1.00	109.05	A16S
ATOM	25380	N4	C	A1203	208.904	120.359	20.116	1.00	109.05	A16S
ATOM	25381	C5	C	A1203	210.497	120.580	21.882	1.00	109.05	A16S
ATOM	25382	C2*	C	A1203	209.982	122.929	25.626	1.00	72.01	A16S
ATOM	25383	O2*	C	A1203	209.836	124.027	26.511	1.00	72.01	A16S
ATOM	25384	C3*	C	A1203	210.816	121.783	26.182	1.00	72.01	A16S
ATOM	25385	O3*	C	A1203	210.595	121.478	27.549	1.00	72.01	A16S
ATOM	25386	P	A	A1204	209.665	120.225	27.925	1.00	98.66	A16S
ATOM	25387	O1P	A	A1204	209.776	119.977	29.384	1.00	111.36	A16S
ATOM	25388	O2P	A	A1204	209.964	119.116	26.979	1.00	111.36	A16S
ATOM	25389	O5*	A	A1204	208.207	120.786	27.608	1.00	98.66	A16S
ATOM	25390	C5*	A	A1204	207.797	122.086	28.083	1.00	98.66	A16S
ATOM	25391	C4*	A	A1204	206.464	122.464	27.487	1.00	98.66	A16S
ATOM	25392	O4*	A	A1204	206.633	122.770	26.080	1.00	98.66	A16S
ATOM	25393	C1*	A	A1204	205.529	122.264	25.345	1.00	98.66	A16S
ATOM	25394	N9	A	A1204	206.028	121.235	24.423	1.00	111.36	A16S
ATOM	25395	C4	A	A1204	205.316	120.608	23.426	1.00	111.36	A16S
ATOM	25396	N3	A	A1204	204.038	120.823	23.080	1.00	111.36	A16S
ATOM	25397	C2	A	A1204	203.680	120.012	22.094	1.00	111.36	A16S
ATOM	25398	N1	A	A1204	204.397	119.083	21.457	1.00	111.36	A16S
ATOM	25399	C6	A	A1204	205.680	118.894	21.822	1.00	111.36	A16S
ATOM	25400	N6	A	A1204	206.395	117.962	21.183	1.00	111.36	A16S
ATOM	25401	C5	A	A1204	206.184	119.691	22.859	1.00	111.36	A16S
ATOM	25402	N7	A	A1204	207.429	119.749	23.470	1.00	111.36	A16S
ATOM	25403	C8	A	A1204	207.288	120.678	24.383	1.00	111.36	A16S



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ATOM	25404	C2*	A	A1204	204.516	121.708	26.354	1.00	98.66	A16S
ATOM	25405	O2*	A	A1204	203.559	122.699	26.667	1.00	98.66	A16S
ATOM	25406	C3*	A	A1204	205.410	121.367	27.539	1.00	98.66	A16S
ATOM	25407	O3*	A	A1204	204.708	121.365	28.780	1.00	98.66	A16S
ATOM	25408	P	U	A1205	204.236	119.967	29.430	1.00103.31		A16S
ATOM	25409	O1P	U	A1205	203.499	120.300	30.677	1.00	99.17	A16S
ATOM	25410	O2P	U	A1205	205.376	119.012	29.489	1.00	99.17	A16S
ATOM	25411	O5*	U	A1205	203.184	119.401	28.379	1.00103.31		A16S
ATOM	25412	C5*	U	A1205	201.918	120.057	28.178	1.00103.31		A16S
ATOM	25413	C4*	U	A1205	201.104	119.318	27.145	1.00103.31		A16S
ATOM	25414	O4*	U	A1205	201.723	119.480	25.848	1.00103.31		A16S
ATOM	25415	C1*	U	A1205	201.581	118.283	25.101	1.00103.31		A16S
ATOM	25416	N1	U	A1205	202.922	117.765	24.783	1.00	99.17	A16S
ATOM	25417	C6	U	A1205	204.027	118.138	25.510	1.00	99.17	A16S
ATOM	25418	C2	U	A1205	203.035	116.879	23.730	1.00	99.17	A16S
ATOM	25419	O2	U	A1205	202.085	116.534	23.047	1.00	99.17	A16S
ATOM	25420	N3	U	A1205	204.303	116.412	23.504	1.00	99.17	A16S
ATOM	25421	C4	U	A1205	205.439	116.739	24.199	1.00	99.17	A16S
ATOM	25422	O4	U	A1205	206.508	116.233	23.875	1.00	99.17	A16S
ATOM	25423	C5	U	A1205	205.244	117.669	25.259	1.00	99.17	A16S
ATOM	25424	C2*	U	A1205	200.751	117.300	25.931	1.00103.31		A16S
ATOM	25425	O2*	U	A1205	199.403	117.380	25.514	1.00103.31		A16S
ATOM	25426	C3*	U	A1205	200.983	117.813	27.348	1.00103.31		A16S
ATOM	25427	O3*	U	A1205	199.906	117.501	28.229	1.00103.31		A16S
ATOM	25428	P	G	A1206	199.684	115.985	28.725	1.00	94.73	A16S
ATOM	25429	O1P	G	A1206	198.875	116.056	29.968	1.00104.29		A16S
ATOM	25430	O2P	G	A1206	200.987	115.269	28.739	1.00104.29		A16S
ATOM	25431	O5*	G	A1206	198.786	115.334	27.581	1.00	94.73	A16S
ATOM	25432	C5*	G	A1206	197.419	115.748	27.374	1.00	94.73	A16S
ATOM	25433	C4*	G	A1206	196.712	114.758	26.483	1.00	94.73	A16S
ATOM	25434	O4*	G	A1206	197.167	114.908	25.110	1.00	94.73	A16S
ATOM	25435	C1*	G	A1206	197.226	113.630	24.483	1.00	94.73	A16S
ATOM	25436	N9	G	A1206	198.611	113.351	24.106	1.00104.29		A16S
ATOM	25437	C4	G	A1206	199.053	112.329	23.289	1.00104.29		A16S
ATOM	25438	N3	G	A1206	198.279	111.431	22.642	1.00104.29		A16S
ATOM	25439	C2	G	A1206	198.999	110.559	21.954	1.00104.29		A16S
ATOM	25440	N2	G	A1206	198.394	109.602	21.239	1.00104.29		A16S
ATOM	25441	N1	G	A1206	200.367	110.562	21.909	1.00104.29		A16S
ATOM	25442	C6	G	A1206	201.185	111.473	22.568	1.00104.29		A16S
ATOM	25443	O6	G	A1206	202.415	111.379	22.472	1.00104.29		A16S
ATOM	25444	C5	G	A1206	200.426	112.422	23.303	1.00104.29		A16S
ATOM	25445	N7	G	A1206	200.841	113.495	24.081	1.00104.29		A16S
ATOM	25446	C8	G	A1206	199.734	114.020	24.527	1.00104.29		A16S
ATOM	25447	C2*	G	A1206	196.723	112.594	25.492	1.00	94.73	A16S
ATOM	25448	O2*	G	A1206	195.354	112.308	25.280	1.00	94.73	A16S
ATOM	25449	C3*	G	A1206	196.993	113.300	26.813	1.00	94.73	A16S
ATOM	25450	O3*	G	A1206	196.199	112.802	27.873	1.00	94.73	A16S
ATOM	25451	P	G	A1207	196.811	111.688	28.858	1.00	97.50	A16S
ATOM	25452	O1P	G	A1207	195.791	111.442	29.907	1.00103.73		A16S
ATOM	25453	O2P	G	A1207	198.182	112.126	29.247	1.00103.73		A16S
ATOM	25454	O5*	G	A1207	196.923	110.376	27.954	1.00	97.50	A16S
ATOM	25455	C5*	G	A1207	195.748	109.805	27.333	1.00	97.50	A16S
ATOM	25456	C4*	G	A1207	196.128	108.697	26.372	1.00	97.50	A16S
ATOM	25457	O4*	G	A1207	196.866	109.236	25.242	1.00	97.50	A16S
ATOM	25458	C1*	G	A1207	197.848	108.298	24.817	1.00	97.50	A16S
ATOM	25459	N9	G	A1207	199.168	108.915	24.944	1.00103.73		A16S
ATOM	25460	C4	G	A1207	200.358	108.417	24.451	1.00103.73		A16S
ATOM	25461	N3	G	A1207	200.516	107.260	23.771	1.00103.73		A16S
ATOM	25462	C2	G	A1207	201.776	107.064	23.415	1.00103.73		A16S
ATOM	25463	N2	G	A1207	202.115	105.959	22.740	1.00103.73		A16S
ATOM	25464	N1	G	A1207	202.796	107.937	23.698	1.00103.73		A16S
ATOM	25465	C6	G	A1207	202.658	109.133	24.394	1.00103.73		A16S
ATOM	25466	O6	G	A1207	203.646	109.859	24.581	1.00103.73		A16S
ATOM	25467	C5	G	A1207	201.313	109.351	24.795	1.00103.73		A16S
ATOM	25468	N7	G	A1207	200.744	110.403	25.501	1.00103.73		A16S
ATOM	25469	C8	G	A1207	199.476	110.102	25.567	1.00103.73		A16S
ATOM	25470	C2*	G	A1207	197.708	107.051	25.689	1.00	97.50	A16S
ATOM	25471	O2*	G	A1207	196.926	106.076	25.029	1.00	97.50	A16S
ATOM	25472	C3*	G	A1207	197.037	107.621	26.934	1.00	97.50	A16S
ATOM	25473	O3*	G	A1207	196.339	106.633	27.662	1.00	97.50	A16S
ATOM	25474	P	C	A1208	197.136	105.768	28.749	1.00	94.74	A16S
ATOM	25475	O1P	C	A1208	196.189	104.818	29.384	1.00102.70		A16S
ATOM	25476	O2P	C	A1208	197.907	106.720	29.593	1.00102.70		A16S
ATOM	25477	O5*	C	A1208	198.180	104.923	27.894	1.00	94.74	A16S
ATOM	25478	C5*	C	A1208	197.738	103.951	26.936	1.00	94.74	A16S
ATOM	25479	C4*	C	A1208	198.927	103.288	26.296	1.00	94.74	A16S
ATOM	25480	O4*	C	A1208	199.664	104.270	25.526	1.00	94.74	A16S



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ATOM	25481	C1*	C	A1208	201.053	103.984	25.600	1.00	94.74	A16S
ATOM	25482	N1	C	A1208	201.757	105.160	26.153	1.00	102.70	A16S
ATOM	25483	C6	C	A1208	201.076	106.141	26.819	1.00	102.70	A16S
ATOM	25484	C2	C	A1208	203.150	105.254	25.994	1.00	102.70	A16S
ATOM	25485	O2	C	A1208	203.750	104.365	25.366	1.00	102.70	A16S
ATOM	25486	N3	C	A1208	203.806	106.311	26.525	1.00	102.70	A16S
ATOM	25487	C4	C	A1208	203.130	107.252	27.184	1.00	102.70	A16S
ATOM	25488	N4	C	A1208	203.819	108.266	27.705	1.00	102.70	A16S
ATOM	25489	C5	C	A1208	201.716	107.193	27.343	1.00	102.70	A16S
ATOM	25490	C2*	C	A1208	201.232	102.723	26.451	1.00	94.74	A16S
ATOM	25491	O2*	C	A1208	201.336	101.573	25.632	1.00	94.74	A16S
ATOM	25492	C3*	C	A1208	199.949	102.715	27.268	1.00	94.74	A16S
ATOM	25493	O3*	C	A1208	199.612	101.397	27.689	1.00	94.74	A16S
ATOM	25494	P	C	A1209	200.065	100.885	29.146	1.00	115.91	A16S
ATOM	25495	O1P	C	A1209	199.501	99.521	29.332	1.00	91.11	A16S
ATOM	25496	O2P	C	A1209	199.735	101.961	30.123	1.00	91.11	A16S
ATOM	25497	O5*	C	A1209	201.654	100.743	29.042	1.00	115.91	A16S
ATOM	25498	C5*	C	A1209	202.258	99.692	28.245	1.00	115.91	A16S
ATOM	25499	C4*	C	A1209	203.764	99.883	28.137	1.00	115.91	A16S
ATOM	25500	O4*	C	A1209	204.055	101.154	27.497	1.00	115.91	A16S
ATOM	25501	C1*	C	A1209	205.266	101.677	28.009	1.00	115.91	A16S
ATOM	25502	N1	C	A1209	205.001	102.982	28.633	1.00	91.11	A16S
ATOM	25503	C6	C	A1209	203.729	103.413	28.878	1.00	91.11	A16S
ATOM	25504	C2	C	A1209	206.093	103.779	28.982	1.00	91.11	A16S
ATOM	25505	O2	C	A1209	207.239	103.362	28.740	1.00	91.11	A16S
ATOM	25506	N3	C	A1209	205.880	104.977	29.570	1.00	91.11	A16S
ATOM	25507	C4	C	A1209	204.636	105.389	29.806	1.00	91.11	A16S
ATOM	25508	N4	C	A1209	204.476	106.581	30.386	1.00	91.11	A16S
ATOM	25509	C5	C	A1209	203.502	104.598	29.458	1.00	91.11	A16S
ATOM	25510	C2*	C	A1209	205.822	100.680	29.023	1.00	115.91	A16S
ATOM	25511	O2*	C	A1209	206.787	99.864	28.397	1.00	115.91	A16S
ATOM	25512	C3*	C	A1209	204.569	99.918	29.430	1.00	115.91	A16S
ATOM	25513	O3*	C	A1209	204.900	98.620	29.908	1.00	115.91	A16S
ATOM	25514	P	C	A1210	205.253	98.411	31.466	1.00	115.86	A16S
ATOM	25515	O1P	C	A1210	205.382	96.939	31.689	1.00	97.37	A16S
ATOM	25516	O2P	C	A1210	204.292	99.205	32.282	1.00	97.37	A16S
ATOM	25517	O5*	C	A1210	206.686	99.085	31.646	1.00	115.86	A16S
ATOM	25518	C5*	C	A1210	207.872	98.422	31.187	1.00	115.86	A16S
ATOM	25519	C4*	C	A1210	209.098	99.116	31.722	1.00	115.86	A16S
ATOM	25520	O4*	C	A1210	209.155	100.477	31.221	1.00	115.86	A16S
ATOM	25521	C1*	C	A1210	209.773	101.314	32.184	1.00	115.86	A16S
ATOM	25522	N1	C	A1210	208.867	102.431	32.513	1.00	97.37	A16S
ATOM	25523	C6	C	A1210	207.520	102.352	32.275	1.00	97.37	A16S
ATOM	25524	C2	C	A1210	209.417	103.591	33.077	1.00	97.37	A16S
ATOM	25525	O2	C	A1210	210.643	103.629	33.300	1.00	97.37	A16S
ATOM	25526	N3	C	A1210	208.602	104.634	33.371	1.00	97.37	A16S
ATOM	25527	C4	C	A1210	207.290	104.546	33.130	1.00	97.37	A16S
ATOM	25528	N4	C	A1210	206.528	105.596	33.435	1.00	97.37	A16S
ATOM	25529	C5	C	A1210	206.703	103.376	32.567	1.00	97.37	A16S
ATOM	25530	C2*	C	A1210	210.130	100.455	33.394	1.00	115.86	A16S
ATOM	25531	O2*	C	A1210	211.494	100.102	33.293	1.00	115.86	A16S
ATOM	25532	C3*	C	A1210	209.172	99.277	33.228	1.00	115.86	A16S
ATOM	25533	O3*	C	A1210	209.620	98.089	33.861	1.00	115.86	A16S
ATOM	25534	P	U	A1211	208.994	97.666	35.282	1.00	125.21	A16S
ATOM	25535	O1P	U	A1211	208.731	96.199	35.218	1.00	92.28	A16S
ATOM	25536	O2P	U	A1211	207.885	98.601	35.636	1.00	92.28	A16S
ATOM	25537	O5*	U	A1211	210.185	97.929	36.302	1.00	125.21	A16S
ATOM	25538	C5*	U	A1211	209.943	98.515	37.589	1.00	125.21	A16S
ATOM	25539	C4*	U	A1211	210.555	99.889	37.650	1.00	125.21	A16S
ATOM	25540	O4*	U	A1211	209.802	100.800	36.817	1.00	125.21	A16S
ATOM	25541	C1*	U	A1211	210.045	102.115	37.268	1.00	125.21	A16S
ATOM	25542	N1	U	A1211	208.860	102.970	37.063	1.00	92.28	A16S
ATOM	25543	C6	U	A1211	207.737	102.512	36.405	1.00	92.28	A16S
ATOM	25544	C2	U	A1211	208.919	104.295	37.526	1.00	92.28	A16S
ATOM	25545	O2	U	A1211	209.863	104.749	38.154	1.00	92.28	A16S
ATOM	25546	N3	U	A1211	207.826	105.068	37.228	1.00	92.28	A16S
ATOM	25547	C4	U	A1211	206.693	104.684	36.551	1.00	92.28	A16S
ATOM	25548	O4	U	A1211	205.818	105.528	36.314	1.00	92.28	A16S
ATOM	25549	C5	U	A1211	206.682	103.302	36.139	1.00	92.28	A16S
ATOM	25550	C2*	U	A1211	210.625	102.038	38.686	1.00	125.21	A16S
ATOM	25551	O2*	U	A1211	211.972	102.453	38.648	1.00	125.21	A16S
ATOM	25552	C3*	U	A1211	210.525	100.552	39.017	1.00	125.21	A16S
ATOM	25553	O3*	U	A1211	211.695	100.197	39.753	1.00	125.21	A16S
ATOM	25554	P	U	A1212	211.648	99.001	40.820	1.00	171.06	A16S
ATOM	25555	O1P	U	A1212	210.236	98.820	41.238	1.00	171.28	A16S
ATOM	25556	O2P	U	A1212	212.678	99.314	41.840	1.00	171.28	A16S
ATOM	25557	O5*	U	A1212	212.084	97.720	39.973	1.00	171.06	A16S



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ATOM	25558	C5* U	A1212	213.104	96.807	40.440	1.00171.06	A16S
ATOM	25559	C4* U	A1212	214.475	97.387	40.177	1.00171.06	A16S
ATOM	25560	O4* U	A1212	214.821	98.298	41.253	1.00171.06	A16S
ATOM	25561	C1* U	A1212	216.213	98.251	41.499	1.00171.06	A16S
ATOM	25562	N1 U	A1212	216.426	97.942	42.923	1.00171.28	A16S
ATOM	25563	C6 U	A1212	216.675	96.656	43.358	1.00171.28	A16S
ATOM	25564	C2 U	A1212	216.367	98.998	43.826	1.00171.28	A16S
ATOM	25565	O2 U	A1212	216.151	100.156	43.494	1.00171.28	A16S
ATOM	25566	N3 U	A1212	216.568	98.649	45.137	1.00171.28	A16S
ATOM	25567	C4 U	A1212	216.815	97.387	45.631	1.00171.28	A16S
ATOM	25568	O4 U	A1212	216.942	97.233	46.845	1.00171.28	A16S
ATOM	25569	C5 U	A1212	216.867	96.354	44.643	1.00171.28	A16S
ATOM	25570	C2* U	A1212	216.834	97.268	40.504	1.00171.06	A16S
ATOM	25571	O2* U	A1212	217.363	98.022	39.435	1.00171.06	A16S
ATOM	25572	C3* U	A1212	215.632	96.402	40.117	1.00171.06	A16S
ATOM	25573	O3* U	A1212	215.680	95.842	38.795	1.00171.06	A16S
ATOM	25574	P A	A1213	217.075	95.331	38.167	1.00168.64	A16S
ATOM	25575	O1P A	A1213	216.747	94.276	37.168	1.00126.31	A16S
ATOM	25576	O2P A	A1213	218.021	95.022	39.274	1.00126.31	A16S
ATOM	25577	O5* A	A1213	217.632	96.619	37.407	1.00168.64	A16S
ATOM	25578	C5* A	A1213	217.409	96.838	35.992	1.00168.64	A16S
ATOM	25579	C4* A	A1213	216.254	97.793	35.781	1.00168.64	A16S
ATOM	25580	O4* A	A1213	216.165	98.753	36.840	1.00168.64	A16S
ATOM	25581	C1* A	A1213	215.270	99.740	36.412	1.00168.64	A16S
ATOM	25582	N9 A	A1213	215.413	100.919	37.267	1.00126.31	A16S
ATOM	25583	C4 A	A1213	214.685	102.081	37.177	1.00126.31	A16S
ATOM	25584	N3 A	A1213	213.733	102.379	36.277	1.00126.31	A16S
ATOM	25585	C2 A	A1213	213.253	103.602	36.492	1.00126.31	A16S
ATOM	25586	N1 A	A1213	213.587	104.493	37.439	1.00126.31	A16S
ATOM	25587	C6 A	A1213	214.546	104.159	38.329	1.00126.31	A16S
ATOM	25588	N6 A	A1213	214.878	105.045	39.272	1.00126.31	A16S
ATOM	25589	C5 A	A1213	215.138	102.891	38.205	1.00126.31	A16S
ATOM	25590	N7 A	A1213	216.137	102.254	38.926	1.00126.31	A16S
ATOM	25591	C8 A	A1213	216.264	101.093	38.331	1.00126.31	A16S
ATOM	25592	C2* A	A1213	215.550	99.942	34.919	1.00168.64	A16S
ATOM	25593	O2* A	A1213	214.335	100.124	34.224	1.00168.64	A16S
ATOM	25594	C3* A	A1213	216.293	98.653	34.524	1.00168.64	A16S
ATOM	25595	O3* A	A1213	215.645	97.972	33.452	1.00168.64	A16S
ATOM	25596	P C	A1214	216.208	98.120	31.954	1.00112.61	A16S
ATOM	25597	O1P C	A1214	215.519	97.090	31.123	1.00 91.41	A16S
ATOM	25598	O2P C	A1214	217.690	98.119	32.044	1.00 91.41	A16S
ATOM	25599	O5* C	A1214	215.708	99.564	31.484	1.00112.61	A16S
ATOM	25600	C5* C	A1214	216.595	100.502	30.823	1.00112.61	A16S
ATOM	25601	C4* C	A1214	215.792	101.617	30.188	1.00112.61	A16S
ATOM	25602	O4* C	A1214	214.956	101.044	29.160	1.00112.61	A16S
ATOM	25603	C1* C	A1214	213.730	101.743	29.102	1.00112.61	A16S
ATOM	25604	N1 C	A1214	212.631	100.769	28.932	1.00 91.41	A16S
ATOM	25605	C6 C	A1214	212.863	99.433	29.115	1.00 91.41	A16S
ATOM	25606	C2 C	A1214	211.343	101.219	28.519	1.00 91.41	A16S
ATOM	25607	O2 C	A1214	211.117	102.438	28.425	1.00 91.41	A16S
ATOM	25608	N3 C	A1214	210.383	100.304	28.244	1.00 91.41	A16S
ATOM	25609	C4 C	A1214	210.646	98.998	28.385	1.00 91.41	A16S
ATOM	25610	N4 C	A1214	209.683	98.122	28.070	1.00 91.41	A16S
ATOM	25611	C5 C	A1214	211.915	98.525	28.852	1.00 91.41	A16S
ATOM	25612	C2* C	A1214	213.675	102.764	30.243	1.00112.61	A16S
ATOM	25613	O2* C	A1214	213.843	104.070	29.717	1.00112.61	A16S
ATOM	25614	C3* C	A1214	214.835	102.325	31.142	1.00112.61	A16S
ATOM	25615	O3* C	A1214	215.392	103.498	31.778	1.00112.61	A16S
ATOM	25616	P G	A1215	216.806	104.126	31.290	1.00111.41	A16S
ATOM	25617	O1P G	A1215	216.654	104.559	29.873	1.00116.39	A16S
ATOM	25618	O2P G	A1215	217.913	103.212	31.668	1.00116.39	A16S
ATOM	25619	O5* G	A1215	216.951	105.452	32.161	1.00111.41	A16S
ATOM	25620	C5* G	A1215	215.861	106.399	32.247	1.00111.41	A16S
ATOM	25621	C4* G	A1215	215.653	106.847	33.682	1.00111.41	A16S
ATOM	25622	O4* G	A1215	215.259	105.720	34.506	1.00111.41	A16S
ATOM	25623	C1* G	A1215	215.840	105.839	35.793	1.00111.41	A16S
ATOM	25624	N9 G	A1215	216.690	104.669	36.024	1.00116.39	A16S
ATOM	25625	C4 G	A1215	217.614	104.507	37.031	1.00116.39	A16S
ATOM	25626	N3 G	A1215	217.918	105.415	37.982	1.00116.39	A16S
ATOM	25627	C2 G	A1215	218.834	104.963	38.822	1.00116.39	A16S
ATOM	25628	N2 G	A1215	219.257	105.738	39.830	1.00116.39	A16S
ATOM	25629	N1 G	A1215	219.408	103.718	38.736	1.00116.39	A16S
ATOM	25630	C6 G	A1215	219.114	102.765	37.764	1.00116.39	A16S
ATOM	25631	O6 G	A1215	219.694	101.664	37.775	1.00116.39	A16S
ATOM	25632	C5 G	A1215	218.130	103.238	36.853	1.00116.39	A16S
ATOM	25633	N7 G	A1215	217.551	102.617	35.753	1.00116.39	A16S
ATOM	25634	C8 G	A1215	216.712	103.502	35.289	1.00116.39	A16S



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ATOM	25635	C2*	G	A1215	216.575	107.177	35.848	1.00111.41	A16S
ATOM	25636	O2*	G	A1215	215.698	108.154	36.381	1.00111.41	A16S
ATOM	25637	C3*	G	A1215	216.879	107.414	34.376	1.00111.41	A16S
ATOM	25638	O3*	G	A1215	217.047	108.782	34.058	1.00111.41	A16S
ATOM	25639	P	G	A1216	218.480	109.295	33.559	1.00102.24	A16S
ATOM	25640	O1P	G	A1216	218.365	110.741	33.207	1.00111.94	A16S
ATOM	25641	O2P	G	A1216	218.964	108.321	32.541	1.00111.94	A16S
ATOM	25642	O5*	G	A1216	219.384	109.150	34.861	1.00102.24	A16S
ATOM	25643	C5*	G	A1216	219.129	109.958	36.028	1.00102.24	A16S
ATOM	25644	C4*	G	A1216	220.161	109.684	37.097	1.00102.24	A16S
ATOM	25645	O4*	G	A1216	219.919	108.398	37.719	1.00102.24	A16S
ATOM	25646	C1*	G	A1216	221.154	107.788	38.039	1.00102.24	A16S
ATOM	25647	N9	G	A1216	221.227	106.515	37.332	1.00111.94	A16S
ATOM	25648	C4	G	A1216	222.043	105.453	37.641	1.00111.94	A16S
ATOM	25649	N3	G	A1216	222.939	105.410	38.648	1.00111.94	A16S
ATOM	25650	C2	G	A1216	223.563	104.247	38.703	1.00111.94	A16S
ATOM	25651	N2	G	A1216	224.487	104.034	39.648	1.00111.94	A16S
ATOM	25652	N1	G	A1216	223.325	103.206	37.835	1.00111.94	A16S
ATOM	25653	C6	G	A1216	222.404	103.230	36.790	1.00111.94	A16S
ATOM	25654	O6	G	A1216	222.258	102.231	36.067	1.00111.94	A16S
ATOM	25655	C5	G	A1216	221.733	104.475	36.721	1.00111.94	A16S
ATOM	25656	N7	G	A1216	220.753	104.917	35.843	1.00111.94	A16S
ATOM	25657	C8	G	A1216	220.487	106.131	36.240	1.00111.94	A16S
ATOM	25658	C2*	G	A1216	222.275	108.757	37.665	1.00102.24	A16S
ATOM	25659	O2*	G	A1216	222.623	109.479	38.823	1.00102.24	A16S
ATOM	25660	C3*	G	A1216	221.597	109.623	36.609	1.00102.24	A16S
ATOM	25661	O3*	G	A1216	222.142	110.932	36.502	1.00102.24	A16S
ATOM	25662	P	C	A1217	223.455	111.172	35.613	1.00107.07	A16S
ATOM	25663	O1P	C	A1217	223.628	112.642	35.472	1.00 98.50	A16S
ATOM	25664	O2P	C	A1217	223.382	110.315	34.404	1.00 98.50	A16S
ATOM	25665	O5*	C	A1217	224.622	110.607	36.530	1.00107.07	A16S
ATOM	25666	C5*	C	A1217	224.860	111.171	37.831	1.00107.07	A16S
ATOM	25667	C4*	C	A1217	225.973	110.436	38.529	1.00107.07	A16S
ATOM	25668	O4*	C	A1217	225.539	109.121	38.954	1.00107.07	A16S
ATOM	25669	C1*	C	A1217	226.638	108.227	38.916	1.00107.07	A16S
ATOM	25670	N1	C	A1217	226.297	107.076	38.069	1.00 98.50	A16S
ATOM	25671	C6	C	A1217	225.292	107.148	37.141	1.00 98.50	A16S
ATOM	25672	C2	C	A1217	227.034	105.899	38.220	1.00 98.50	A16S
ATOM	25673	O2	C	A1217	227.935	105.857	39.074	1.00 98.50	A16S
ATOM	25674	N3	C	A1217	226.752	104.838	37.434	1.00 98.50	A16S
ATOM	25675	C4	C	A1217	225.783	104.921	36.519	1.00 98.50	A16S
ATOM	25676	N4	C	A1217	225.557	103.849	35.748	1.00 98.50	A16S
ATOM	25677	C5	C	A1217	225.007	106.106	36.349	1.00 98.50	A16S
ATOM	25678	C2*	C	A1217	227.853	108.992	38.390	1.00107.07	A16S
ATOM	25679	O2*	C	A1217	228.664	109.392	39.473	1.00107.07	A16S
ATOM	25680	C3*	C	A1217	227.197	110.169	37.682	1.00107.07	A16S
ATOM	25681	O3*	C	A1217	228.033	111.303	37.623	1.00107.07	A16S
ATOM	25682	P	C	A1218	229.022	111.482	36.375	1.00102.08	A16S
ATOM	25683	O1P	C	A1218	229.720	112.789	36.583	1.00105.22	A16S
ATOM	25684	O2P	C	A1218	228.263	111.235	35.104	1.00105.22	A16S
ATOM	25685	O5*	C	A1218	230.076	110.307	36.575	1.00102.08	A16S
ATOM	25686	C5*	C	A1218	230.930	110.298	37.724	1.00102.08	A16S
ATOM	25687	C4*	C	A1218	231.820	109.089	37.702	1.00102.08	A16S
ATOM	25688	O4*	C	A1218	231.023	107.892	37.848	1.00102.08	A16S
ATOM	25689	C1*	C	A1218	231.609	106.844	37.110	1.00102.08	A16S
ATOM	25690	N1	C	A1218	230.620	106.346	36.148	1.00105.22	A16S
ATOM	25691	C6	C	A1218	229.625	107.155	35.670	1.00105.22	A16S
ATOM	25692	C2	C	A1218	230.714	105.018	35.726	1.00105.22	A16S
ATOM	25693	O2	C	A1218	231.639	104.311	36.171	1.00105.22	A16S
ATOM	25694	N3	C	A1218	229.801	104.536	34.849	1.00105.22	A16S
ATOM	25695	C4	C	A1218	228.825	105.330	34.398	1.00105.22	A16S
ATOM	25696	N4	C	A1218	227.934	104.807	33.552	1.00105.22	A16S
ATOM	25697	C5	C	A1218	228.716	106.694	34.802	1.00105.22	A16S
ATOM	25698	C2*	C	A1218	232.880	107.381	36.452	1.00102.08	A16S
ATOM	25699	O2*	C	A1218	233.972	107.041	37.272	1.00102.08	A16S
ATOM	25700	C3*	C	A1218	232.609	108.880	36.426	1.00102.08	A16S
ATOM	25701	O3*	C	A1218	233.795	109.668	36.453	1.00102.08	A16S
ATOM	25702	P	U	A1219	234.497	110.110	35.074	1.00 88.65	A16S
ATOM	25703	O1P	U	A1219	235.438	111.218	35.395	1.00113.20	A16S
ATOM	25704	O2P	U	A1219	233.442	110.327	34.041	1.00113.20	A16S
ATOM	25705	O5*	U	A1219	235.373	108.831	34.704	1.00 88.65	A16S
ATOM	25706	C5*	U	A1219	236.378	108.354	35.617	1.00 88.65	A16S
ATOM	25707	C4*	U	A1219	236.764	106.934	35.290	1.00 88.65	A16S
ATOM	25708	O4*	U	A1219	235.636	106.046	35.505	1.00 88.65	A16S
ATOM	25709	C1*	U	A1219	235.651	105.003	34.540	1.00 88.65	A16S
ATOM	25710	N1	U	A1219	234.435	105.117	33.713	1.00113.20	A16S
ATOM	25711	C6	U	A1219	233.858	106.348	33.458	1.00113.20	A16S



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ATOM	25712	C2	U	A1219	233.875	103.950	33.197	1.00113.20	A16S
ATOM	25713	O2	U	A1219	234.373	102.842	33.353	1.00113.20	A16S
ATOM	25714	N3	U	A1219	232.714	104.135	32.477	1.00113.20	A16S
ATOM	25715	C4	U	A1219	232.079	105.338	32.207	1.00113.20	A16S
ATOM	25716	O4	U	A1219	231.003	105.337	31.606	1.00113.20	A16S
ATOM	25717	C5	U	A1219	232.737	106.492	32.739	1.00113.20	A16S
ATOM	25718	C2*	U	A1219	236.920	105.182	33.710	1.00 88.65	A16S
ATOM	25719	O2*	U	A1219	237.971	104.419	34.273	1.00 88.65	A16S
ATOM	25720	C3*	U	A1219	237.153	106.676	33.852	1.00 88.65	A16S
ATOM	25721	O3*	U	A1219	238.474	107.056	33.558	1.00 88.65	A16S
ATOM	25722	P	G	A1220	238.790	107.702	32.125	1.00102.30	A16S
ATOM	25723	O1P	G	A1220	240.240	108.076	32.126	1.00 91.09	A16S
ATOM	25724	O2P	G	A1220	237.755	108.750	31.858	1.00 91.09	A16S
ATOM	25725	O5*	G	A1220	238.576	106.484	31.116	1.00102.30	A16S
ATOM	25726	C5*	G	A1220	239.548	105.431	31.063	1.00102.30	A16S
ATOM	25727	C4*	G	A1220	239.100	104.311	30.160	1.00102.30	A16S
ATOM	25728	O4*	G	A1220	237.969	103.609	30.740	1.00102.30	A16S
ATOM	25729	C1*	G	A1220	237.149	103.092	29.703	1.00102.30	A16S
ATOM	25730	N9	G	A1220	235.860	103.782	29.723	1.00 91.09	A16S
ATOM	25731	C4	G	A1220	234.710	103.342	29.117	1.00 91.09	A16S
ATOM	25732	N3	G	A1220	234.567	102.181	28.444	1.00 91.09	A16S
ATOM	25733	C2	G	A1220	233.364	102.061	27.920	1.00 91.09	A16S
ATOM	25734	N2	G	A1220	233.072	100.984	27.191	1.00 91.09	A16S
ATOM	25735	N1	G	A1220	232.368	102.995	28.069	1.00 91.09	A16S
ATOM	25736	C6	G	A1220	232.493	104.195	28.766	1.00 91.09	A16S
ATOM	25737	O6	G	A1220	231.534	104.970	28.841	1.00 91.09	A16S
ATOM	25738	C5	G	A1220	233.785	104.346	29.313	1.00 91.09	A16S
ATOM	25739	N7	G	A1220	234.334	105.389	30.048	1.00 91.09	A16S
ATOM	25740	C8	G	A1220	235.560	105.006	30.282	1.00 91.09	A16S
ATOM	25741	C2*	G	A1220	237.839	103.426	28.383	1.00102.30	A16S
ATOM	25742	O2*	G	A1220	238.668	102.349	27.990	1.00102.30	A16S
ATOM	25743	C3*	G	A1220	238.625	104.669	28.767	1.00102.30	A16S
ATOM	25744	O3*	G	A1220	239.663	104.942	27.853	1.00102.30	A16S
ATOM	25745	P	G	A1221	239.343	105.844	26.563	1.00103.65	A16S
ATOM	25746	O1P	G	A1221	240.630	106.109	25.880	1.00 85.56	A16S
ATOM	25747	O2P	G	A1221	238.487	106.990	26.989	1.00 85.56	A16S
ATOM	25748	O5*	G	A1221	238.488	104.869	25.636	1.00103.65	A16S
ATOM	25749	C5*	G	A1221	239.041	103.610	25.202	1.00103.65	A16S
ATOM	25750	C4*	G	A1221	237.991	102.770	24.515	1.00103.65	A16S
ATOM	25751	O4*	G	A1221	236.928	102.438	25.451	1.00103.65	A16S
ATOM	25752	C1*	G	A1221	235.680	102.382	24.769	1.00103.65	A16S
ATOM	25753	N9	G	A1221	234.872	103.519	25.201	1.00 85.56	A16S
ATOM	25754	C4	G	A1221	233.538	103.746	24.926	1.00 85.56	A16S
ATOM	25755	N3	G	A1221	232.714	102.929	24.239	1.00 85.56	A16S
ATOM	25756	C2	G	A1221	231.500	103.449	24.104	1.00 85.56	A16S
ATOM	25757	N2	G	A1221	230.552	102.786	23.425	1.00 85.56	A16S
ATOM	25758	N1	G	A1221	231.127	104.660	24.616	1.00 85.56	A16S
ATOM	25759	C6	G	A1221	231.957	105.514	25.325	1.00 85.56	A16S
ATOM	25760	O6	G	A1221	231.519	106.595	25.735	1.00 85.56	A16S
ATOM	25761	C5	G	A1221	233.259	104.977	25.469	1.00 85.56	A16S
ATOM	25762	N7	G	A1221	234.380	105.503	26.094	1.00 85.56	A16S
ATOM	25763	C8	G	A1221	235.305	104.603	25.919	1.00 85.56	A16S
ATOM	25764	C2*	G	A1221	235.984	102.567	23.286	1.00103.65	A16S
ATOM	25765	O2*	G	A1221	236.169	101.306	22.671	1.00103.65	A16S
ATOM	25766	C3*	G	A1221	237.254	103.404	23.350	1.00103.65	A16S
ATOM	25767	O3*	G	A1221	237.974	103.401	22.131	1.00103.65	A16S
ATOM	25768	P	G	A1222	237.627	104.505	21.010	1.00 89.27	A16S
ATOM	25769	O1P	G	A1222	238.412	104.130	19.809	1.00114.13	A16S
ATOM	25770	O2P	G	A1222	237.767	105.874	21.569	1.00114.13	A16S
ATOM	25771	O5*	G	A1222	236.079	104.262	20.710	1.00 89.27	A16S
ATOM	25772	C5*	G	A1222	235.621	103.027	20.123	1.00 89.27	A16S
ATOM	25773	C4*	G	A1222	234.164	103.129	19.741	1.00 89.27	A16S
ATOM	25774	O4*	G	A1222	233.367	103.306	20.944	1.00 89.27	A16S
ATOM	25775	C1*	G	A1222	232.223	104.099	20.654	1.00 89.27	A16S
ATOM	25776	N9	G	A1222	232.262	105.326	21.449	1.00114.13	A16S
ATOM	25777	C4	G	A1222	231.244	106.244	21.543	1.00114.13	A16S
ATOM	25778	N3	G	A1222	230.032	106.140	20.958	1.00114.13	A16S
ATOM	25779	C2	G	A1222	229.278	107.198	21.192	1.00114.13	A16S
ATOM	25780	N2	G	A1222	228.050	107.262	20.667	1.00114.13	A16S
ATOM	25781	N1	G	A1222	229.676	108.272	21.953	1.00114.13	A16S
ATOM	25782	C6	G	A1222	230.916	108.399	22.574	1.00114.13	A16S
ATOM	25783	O6	G	A1222	231.170	109.410	23.246	1.00114.13	A16S
ATOM	25784	C5	G	A1222	231.744	107.269	22.319	1.00114.13	A16S
ATOM	25785	N7	G	A1222	233.042	106.991	22.728	1.00114.13	A16S
ATOM	25786	C8	G	A1222	233.304	105.825	22.198	1.00114.13	A16S
ATOM	25787	C2*	G	A1222	232.280	104.452	19.169	1.00 89.27	A16S
ATOM	25788	O2*	G	A1222	231.477	103.565	18.424	1.00 89.27	A16S



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ATOM	25789	C3*	G	A1222	233.769	104.318	18.879	1.00	89.27	A16S
ATOM	25790	O3*	G	A1222	234.042	104.181	17.495	1.00	89.27	A16S
ATOM	25791	P	C	A1223	234.306	105.506	16.614	1.00	88.22	A16S
ATOM	25792	O1P	C	A1223	234.453	105.044	15.215	1.00	89.25	A16S
ATOM	25793	O2P	C	A1223	235.393	106.326	17.239	1.00	89.25	A16S
ATOM	25794	O5*	C	A1223	232.934	106.321	16.694	1.00	88.22	A16S
ATOM	25795	C5*	C	A1223	231.707	105.744	16.205	1.00	88.22	A16S
ATOM	25796	C4*	C	A1223	230.585	106.754	16.246	1.00	88.22	A16S
ATOM	25797	O4*	C	A1223	230.294	107.126	17.615	1.00	88.22	A16S
ATOM	25798	C1*	C	A1223	229.774	108.447	17.645	1.00	88.22	A16S
ATOM	25799	N1	C	A1223	230.528	109.260	18.620	1.00	89.25	A16S
ATOM	25800	C6	C	A1223	231.844	109.002	18.887	1.00	89.25	A16S
ATOM	25801	C2	C	A1223	229.870	110.334	19.267	1.00	89.25	A16S
ATOM	25802	O2	C	A1223	228.669	110.554	19.022	1.00	89.25	A16S
ATOM	25803	N3	C	A1223	230.563	111.103	20.133	1.00	89.25	A16S
ATOM	25804	C4	C	A1223	231.854	110.853	20.364	1.00	89.25	A16S
ATOM	25805	N4	C	A1223	232.504	111.664	21.202	1.00	89.25	A16S
ATOM	25806	C5	C	A1223	232.538	109.765	19.741	1.00	89.25	A16S
ATOM	25807	C2*	C	A1223	229.843	109.018	16.228	1.00	88.22	A16S
ATOM	25808	O2*	C	A1223	228.560	109.021	15.632	1.00	88.22	A16S
ATOM	25809	C3*	C	A1223	230.833	108.076	15.550	1.00	88.22	A16S
ATOM	25810	O3*	C	A1223	230.568	107.997	14.166	1.00	88.22	A16S
ATOM	25811	P	G	A1224	231.059	109.179	13.208	1.00	83.30	A16S
ATOM	25812	O1P	G	A1224	230.543	110.460	13.736	1.00	84.49	A16S
ATOM	25813	O2P	G	A1224	230.725	108.782	11.835	1.00	84.49	A16S
ATOM	25814	O5*	G	A1224	232.645	109.160	13.371	1.00	83.30	A16S
ATOM	25815	C5*	G	A1224	233.391	107.913	13.482	1.00	83.30	A16S
ATOM	25816	C4*	G	A1224	234.866	108.151	13.183	1.00	83.30	A16S
ATOM	25817	O4*	G	A1224	235.323	109.270	13.968	1.00	83.30	A16S
ATOM	25818	C1*	G	A1224	236.688	109.116	14.267	1.00	83.30	A16S
ATOM	25819	N9	G	A1224	236.927	109.709	15.577	1.00	84.49	A16S
ATOM	25820	C4	G	A1224	237.655	110.850	15.802	1.00	84.49	A16S
ATOM	25821	N3	G	A1224	238.313	111.558	14.867	1.00	84.49	A16S
ATOM	25822	C2	G	A1224	238.887	112.634	15.372	1.00	84.49	A16S
ATOM	25823	N2	G	A1224	239.576	113.443	14.577	1.00	84.49	A16S
ATOM	25824	N1	G	A1224	238.826	112.994	16.690	1.00	84.49	A16S
ATOM	25825	C6	G	A1224	238.155	112.286	17.676	1.00	84.49	A16S
ATOM	25826	O6	G	A1224	238.154	112.711	18.837	1.00	84.49	A16S
ATOM	25827	C5	G	A1224	237.529	111.110	17.146	1.00	84.49	A16S
ATOM	25828	N7	G	A1224	236.766	110.128	17.767	1.00	84.49	A16S
ATOM	25829	C8	G	A1224	236.441	109.310	16.798	1.00	84.49	A16S
ATOM	25830	C2*	G	A1224	237.134	107.680	13.971	1.00	83.30	A16S
ATOM	25831	O2*	G	A1224	238.215	107.727	13.057	1.00	83.30	A16S
ATOM	25832	C3*	G	A1224	235.825	107.008	13.507	1.00	83.30	A16S
ATOM	25833	O3*	G	A1224	235.843	106.000	12.441	1.00	83.30	A16S
ATOM	25834	P	A	A1225	236.591	106.255	11.003	1.00	92.96	A16S
ATOM	25835	O1P	A	A1225	237.016	107.663	10.812	1.00	82.56	A16S
ATOM	25836	O2P	A	A1225	235.737	105.630	9.957	1.00	82.56	A16S
ATOM	25837	O5*	A	A1225	237.903	105.363	11.153	1.00	92.96	A16S
ATOM	25838	C5*	A	A1225	237.955	104.026	10.613	1.00	92.96	A16S
ATOM	25839	C4*	A	A1225	237.550	102.986	11.648	1.00	92.96	A16S
ATOM	25840	O4*	A	A1225	236.245	103.275	12.184	1.00	92.96	A16S
ATOM	25841	C1*	A	A1225	235.610	102.062	12.526	1.00	92.96	A16S
ATOM	25842	N9	A	A1225	234.164	102.220	12.336	1.00	82.56	A16S
ATOM	25843	C4	A	A1225	233.325	101.587	11.443	1.00	82.56	A16S
ATOM	25844	N3	A	A1225	233.646	100.656	10.531	1.00	82.56	A16S
ATOM	25845	C2	A	A1225	232.571	100.290	9.836	1.00	82.56	A16S
ATOM	25846	N1	A	A1225	231.309	100.719	9.937	1.00	82.56	A16S
ATOM	25847	C6	A	A1225	231.021	101.661	10.858	1.00	82.56	A16S
ATOM	25848	N6	A	A1225	229.769	102.114	10.947	1.00	82.56	A16S
ATOM	25849	C5	A	A1225	232.067	102.122	11.667	1.00	82.56	A16S
ATOM	25850	N7	A	A1225	232.105	103.057	12.687	1.00	82.56	A16S
ATOM	25851	C8	A	A1225	233.364	103.077	13.050	1.00	82.56	A16S
ATOM	25852	C2*	A	A1225	236.273	100.920	11.746	1.00	92.96	A16S
ATOM	25853	O2*	A	A1225	236.634	99.845	12.585	1.00	92.96	A16S
ATOM	25854	C3*	A	A1225	237.455	101.590	11.040	1.00	92.96	A16S
ATOM	25855	O3*	A	A1225	238.651	100.896	11.378	1.00	92.96	A16S
ATOM	25856	P	C	A1226	239.869	100.833	10.339	1.00	93.96	A16S
ATOM	25857	O1P	C	A1226	240.831	99.845	10.869	1.00	74.41	A16S
ATOM	25858	O2P	C	A1226	240.338	102.200	10.015	1.00	74.41	A16S
ATOM	25859	O5*	C	A1226	239.203	100.195	9.051	1.00	93.96	A16S
ATOM	25860	C5*	C	A1226	239.593	100.609	7.744	1.00	93.96	A16S
ATOM	25861	C4*	C	A1226	238.719	99.933	6.750	1.00	93.96	A16S
ATOM	25862	O4*	C	A1226	237.389	99.964	7.288	1.00	93.96	A16S
ATOM	25863	C1*	C	A1226	236.467	100.160	6.248	1.00	93.96	A16S
ATOM	25864	N1	C	A1226	235.532	101.236	6.643	1.00	74.41	A16S
ATOM	25865	C6	C	A1226	235.967	102.338	7.326	1.00	74.41	A16S



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ATOM	25866	C2	C	A1226	234.166	101.078	6.354	1.00	74.41	A16S
ATOM	25867	O2	C	A1226	233.806	100.102	5.672	1.00	74.41	A16S
ATOM	25868	N3	C	A1226	233.278	101.994	6.822	1.00	74.41	A16S
ATOM	25869	C4	C	A1226	233.712	103.038	7.536	1.00	74.41	A16S
ATOM	25870	N4	C	A1226	232.803	103.892	8.021	1.00	74.41	A16S
ATOM	25871	C5	C	A1226	235.099	103.250	7.794	1.00	74.41	A16S
ATOM	25872	C2*	C	A1226	237.226	100.250	4.920	1.00	93.96	A16S
ATOM	25873	O2*	C	A1226	237.136	98.994	4.282	1.00	93.96	A16S
ATOM	25874	C3*	C	A1226	238.644	100.563	5.374	1.00	93.96	A16S
ATOM	25875	O3*	C	A1226	239.685	100.085	4.484	1.00	93.96	A16S
ATOM	25876	P	A	A1227	240.054	98.491	4.372	1.00	77.12	A16S
ATOM	25877	O1P	A	A1227	239.761	97.790	5.643	1.00	99.20	A16S
ATOM	25878	O2P	A	A1227	241.431	98.420	3.810	1.00	99.20	A16S
ATOM	25879	O5*	A	A1227	239.113	97.857	3.251	1.00	77.12	A16S
ATOM	25880	C5*	A	A1227	239.508	96.622	2.632	1.00	77.12	A16S
ATOM	25881	C4*	A	A1227	238.735	96.358	1.355	1.00	77.12	A16S
ATOM	25882	O4*	A	A1227	237.520	95.613	1.630	1.00	77.12	A16S
ATOM	25883	C1*	A	A1227	236.564	95.881	0.622	1.00	77.12	A16S
ATOM	25884	N9	A	A1227	235.402	96.525	1.239	1.00	99.20	A16S
ATOM	25885	C4	A	A1227	234.155	95.980	1.359	1.00	99.20	A16S
ATOM	25886	N3	A	A1227	233.778	94.751	0.985	1.00	99.20	A16S
ATOM	25887	C2	A	A1227	232.485	94.579	1.222	1.00	99.20	A16S
ATOM	25888	N1	A	A1227	231.591	95.438	1.751	1.00	99.20	A16S
ATOM	25889	C6	A	A1227	232.012	96.669	2.112	1.00	99.20	A16S
ATOM	25890	N6	A	A1227	231.124	97.529	2.621	1.00	99.20	A16S
ATOM	25891	C5	A	A1227	233.361	96.970	1.920	1.00	99.20	A16S
ATOM	25892	N7	A	A1227	234.100	98.111	2.179	1.00	99.20	A16S
ATOM	25893	C8	A	A1227	235.304	97.797	1.769	1.00	99.20	A16S
ATOM	25894	C2*	A	A1227	237.217	96.827	-0.387	1.00	77.12	A16S
ATOM	25895	O2*	A	A1227	237.768	96.093	-1.468	1.00	77.12	A16S
ATOM	25896	C3*	A	A1227	238.276	97.507	0.473	1.00	77.12	A16S
ATOM	25897	O3*	A	A1227	239.273	98.109	-0.341	1.00	77.12	A16S
ATOM	25898	P	C	A1228	238.939	99.508	-1.062	1.00	69.78	A16S
ATOM	25899	O1P	C	A1228	239.995	99.807	-2.075	1.00	90.35	A16S
ATOM	25900	O2P	C	A1228	238.629	100.510	-0.001	1.00	90.35	A16S
ATOM	25901	O5*	C	A1228	237.575	99.178	-1.818	1.00	69.78	A16S
ATOM	25902	C5*	C	A1228	236.732	100.218	-2.333	1.00	69.78	A16S
ATOM	25903	C4*	C	A1228	235.347	99.678	-2.582	1.00	69.78	A16S
ATOM	25904	O4*	C	A1228	234.830	99.113	-1.346	1.00	69.78	A16S
ATOM	25905	C1*	C	A1228	233.485	99.528	-1.151	1.00	69.78	A16S
ATOM	25906	N1	C	A1228	233.463	100.497	-0.024	1.00	90.35	A16S
ATOM	25907	C6	C	A1228	234.582	101.226	0.289	1.00	90.35	A16S
ATOM	25908	C2	C	A1228	232.274	100.680	0.716	1.00	90.35	A16S
ATOM	25909	O2	C	A1228	231.272	100.005	0.439	1.00	90.35	A16S
ATOM	25910	N3	C	A1228	232.254	101.594	1.714	1.00	90.35	A16S
ATOM	25911	C4	C	A1228	233.346	102.308	1.992	1.00	90.35	A16S
ATOM	25912	N4	C	A1228	233.268	103.212	2.969	1.00	90.35	A16S
ATOM	25913	C5	C	A1228	234.567	102.132	1.276	1.00	90.35	A16S
ATOM	25914	C2*	C	A1228	233.027	100.178	-2.462	1.00	69.78	A16S
ATOM	25915	O2*	C	A1228	232.430	99.218	-3.318	1.00	69.78	A16S
ATOM	25916	C3*	C	A1228	234.342	100.737	-2.990	1.00	69.78	A16S
ATOM	25917	O3*	C	A1228	234.351	100.964	-4.385	1.00	69.78	A16S
ATOM	25918	P	A	A1229	234.257	102.466	-4.934	1.00	72.19	A16S
ATOM	25919	O1P	A	A1229	234.617	102.444	-6.369	1.00	86.39	A16S
ATOM	25920	O2P	A	A1229	235.020	103.318	-4.001	1.00	86.39	A16S
ATOM	25921	O5*	A	A1229	232.715	102.862	-4.789	1.00	72.19	A16S
ATOM	25922	C5*	A	A1229	231.686	102.213	-5.588	1.00	72.19	A16S
ATOM	25923	C4*	A	A1229	230.317	102.810	-5.294	1.00	72.19	A16S
ATOM	25924	O4*	A	A1229	229.803	102.345	-4.012	1.00	72.19	A16S
ATOM	25925	C1*	A	A1229	229.147	103.415	-3.337	1.00	72.19	A16S
ATOM	25926	N9	A	A1229	229.943	103.771	-2.154	1.00	86.39	A16S
ATOM	25927	C4	A	A1229	229.608	104.671	-1.169	1.00	86.39	A16S
ATOM	25928	N3	A	A1229	228.473	105.373	-1.058	1.00	86.39	A16S
ATOM	25929	C2	A	A1229	228.514	106.160	0.016	1.00	86.39	A16S
ATOM	25930	N1	A	A1229	229.490	106.319	0.920	1.00	86.39	A16S
ATOM	25931	C6	A	A1229	230.621	105.604	0.778	1.00	86.39	A16S
ATOM	25932	N6	A	A1229	231.599	105.770	1.673	1.00	86.39	A16S
ATOM	25933	C5	A	A1229	230.700	104.723	-0.316	1.00	86.39	A16S
ATOM	25934	N7	A	A1229	231.693	103.850	-0.737	1.00	86.39	A16S
ATOM	25935	C8	A	A1229	231.196	103.307	-1.821	1.00	86.39	A16S
ATOM	25936	C2*	A	A1229	229.091	104.592	-4.311	1.00	72.19	A16S
ATOM	25937	O2*	A	A1229	227.883	104.559	-5.033	1.00	72.19	A16S
ATOM	25938	C3*	A	A1229	230.302	104.321	-5.189	1.00	72.19	A16S
ATOM	25939	O3*	A	A1229	230.203	104.939	-6.448	1.00	72.19	A16S
ATOM	25940	P	C	A1230	230.809	106.407	-6.639	1.00	67.79	A16S
ATOM	25941	O1P	C	A1230	230.963	106.685	-8.092	1.00	75.36	A16S
ATOM	25942	O2P	C	A1230	232.000	106.467	-5.742	1.00	75.36	A16S



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ATOM	25943	O5*	C	A1230	229.678	107.376	-6.068	1.00	67.79	A16S
ATOM	25944	C5*	C	A1230	228.367	107.421	-6.670	1.00	67.79	A16S
ATOM	25945	C4*	C	A1230	227.441	108.307	-5.861	1.00	67.79	A16S
ATOM	25946	O4*	C	A1230	227.270	107.741	-4.537	1.00	67.79	A16S
ATOM	25947	C1*	C	A1230	227.209	108.787	-3.575	1.00	67.79	A16S
ATOM	25948	N1	C	A1230	228.371	108.671	-2.656	1.00	75.36	A16S
ATOM	25949	C6	C	A1230	229.340	107.724	-2.848	1.00	75.36	A16S
ATOM	25950	C2	C	A1230	228.472	109.569	-1.587	1.00	75.36	A16S
ATOM	25951	O2	C	A1230	227.567	110.383	-1.407	1.00	75.36	A16S
ATOM	25952	N3	C	A1230	229.546	109.519	-0.776	1.00	75.36	A16S
ATOM	25953	C4	C	A1230	230.492	108.605	-0.981	1.00	75.36	A16S
ATOM	25954	N4	C	A1230	231.544	108.599	-0.153	1.00	75.36	A16S
ATOM	25955	C5	C	A1230	230.407	107.656	-2.042	1.00	75.36	A16S
ATOM	25956	C2*	C	A1230	227.227	110.117	-4.335	1.00	67.79	A16S
ATOM	25957	O2*	C	A1230	225.919	110.584	-4.597	1.00	67.79	A16S
ATOM	25958	C3*	C	A1230	227.945	109.721	-5.608	1.00	67.79	A16S
ATOM	25959	O3*	C	A1230	227.620	110.617	-6.644	1.00	67.79	A16S
ATOM	25960	P	G	A1231	228.369	112.031	-6.712	1.00	75.38	A16S
ATOM	25961	O1P	G	A1231	227.986	112.666	-8.005	1.00	75.98	A16S
ATOM	25962	O2P	G	A1231	229.807	111.828	-6.381	1.00	75.98	A16S
ATOM	25963	O5*	G	A1231	227.725	112.871	-5.525	1.00	75.38	A16S
ATOM	25964	C5*	G	A1231	226.360	113.268	-5.589	1.00	75.38	A16S
ATOM	25965	C4*	G	A1231	226.020	114.175	-4.439	1.00	75.38	A16S
ATOM	25966	O4*	G	A1231	226.154	113.449	-3.197	1.00	75.38	A16S
ATOM	25967	C1*	G	A1231	226.599	114.332	-2.185	1.00	75.38	A16S
ATOM	25968	N9	G	A1231	227.908	113.878	-1.734	1.00	75.98	A16S
ATOM	25969	C4	G	A1231	228.542	114.252	-0.584	1.00	75.98	A16S
ATOM	25970	N3	G	A1231	228.066	115.108	0.333	1.00	75.98	A16S
ATOM	25971	C2	G	A1231	228.910	115.274	1.325	1.00	75.98	A16S
ATOM	25972	N2	G	A1231	228.600	116.096	2.333	1.00	75.98	A16S
ATOM	25973	N1	G	A1231	230.124	114.650	1.408	1.00	75.98	A16S
ATOM	25974	C6	G	A1231	230.635	113.770	0.470	1.00	75.98	A16S
ATOM	25975	O6	G	A1231	231.753	113.269	0.633	1.00	75.98	A16S
ATOM	25976	C5	G	A1231	229.741	113.580	-0.592	1.00	75.98	A16S
ATOM	25977	N7	G	A1231	229.858	112.795	-1.728	1.00	75.98	A16S
ATOM	25978	C8	G	A1231	228.748	113.003	-2.375	1.00	75.98	A16S
ATOM	25979	C2*	G	A1231	226.669	115.733	-2.789	1.00	75.38	A16S
ATOM	25980	O2*	G	A1231	225.426	116.360	-2.551	1.00	75.38	A16S
ATOM	25981	C3*	G	A1231	226.873	115.420	-4.263	1.00	75.38	A16S
ATOM	25982	O3*	G	A1231	226.409	116.480	-5.089	1.00	75.38	A16S
ATOM	25983	P	U	A1232	227.431	117.638	-5.552	1.00	68.15	A16S
ATOM	25984	O1P	U	A1232	226.731	118.573	-6.488	1.00	82.11	A16S
ATOM	25985	O2P	U	A1232	228.692	116.972	-5.992	1.00	82.11	A16S
ATOM	25986	O5*	U	A1232	227.747	118.404	-4.195	1.00	68.15	A16S
ATOM	25987	C5*	U	A1232	226.723	119.135	-3.496	1.00	68.15	A16S
ATOM	25988	C4*	U	A1232	227.310	119.771	-2.262	1.00	68.15	A16S
ATOM	25989	O4*	U	A1232	227.703	118.737	-1.328	1.00	68.15	A16S
ATOM	25990	C1*	U	A1232	228.919	119.083	-0.719	1.00	68.15	A16S
ATOM	25991	N1	U	A1232	229.875	118.008	-0.986	1.00	82.11	A16S
ATOM	25992	C6	U	A1232	229.820	117.269	-2.135	1.00	82.11	A16S
ATOM	25993	C2	U	A1232	230.838	117.775	-0.036	1.00	82.11	A16S
ATOM	25994	O2	U	A1232	230.906	118.406	0.993	1.00	82.11	A16S
ATOM	25995	N3	U	A1232	231.719	116.774	-0.334	1.00	82.11	A16S
ATOM	25996	C4	U	A1232	231.728	115.997	-1.460	1.00	82.11	A16S
ATOM	25997	O4	U	A1232	232.535	115.076	-1.545	1.00	82.11	A16S
ATOM	25998	C5	U	A1232	230.691	116.299	-2.403	1.00	82.11	A16S
ATOM	25999	C2*	U	A1232	229.366	120.443	-1.259	1.00	68.15	A16S
ATOM	26000	O2*	U	A1232	229.073	121.449	-0.322	1.00	68.15	A16S
ATOM	26001	C3*	U	A1232	228.576	120.546	-2.555	1.00	68.15	A16S
ATOM	26002	O3*	U	A1232	228.246	121.874	-2.939	1.00	68.15	A16S
ATOM	26003	P	G	A1233	229.363	122.799	-3.610	1.00	74.01	A16S
ATOM	26004	O1P	G	A1233	228.767	124.141	-3.823	1.00	92.16	A16S
ATOM	26005	O2P	G	A1233	229.966	122.076	-4.763	1.00	92.16	A16S
ATOM	26006	O5*	G	A1233	230.445	122.889	-2.445	1.00	74.01	A16S
ATOM	26007	C5*	G	A1233	231.831	123.097	-2.727	1.00	74.01	A16S
ATOM	26008	C4*	G	A1233	232.639	122.896	-1.479	1.00	74.01	A16S
ATOM	26009	O4*	G	A1233	232.520	121.522	-1.030	1.00	74.01	A16S
ATOM	26010	C1*	G	A1233	233.752	121.085	-0.471	1.00	74.01	A16S
ATOM	26011	N9	G	A1233	234.185	119.888	-1.193	1.00	92.16	A16S
ATOM	26012	C4	G	A1233	235.327	119.142	-0.979	1.00	92.16	A16S
ATOM	26013	N3	G	A1233	236.273	119.374	-0.045	1.00	92.16	A16S
ATOM	26014	C2	G	A1233	237.249	118.473	-0.096	1.00	92.16	A16S
ATOM	26015	N2	G	A1233	238.277	118.532	0.770	1.00	92.16	A16S
ATOM	26016	N1	G	A1233	237.288	117.444	-0.993	1.00	92.16	A16S
ATOM	26017	C6	G	A1233	236.328	117.192	-1.959	1.00	92.16	A16S
ATOM	26018	O6	G	A1233	236.464	116.239	-2.717	1.00	92.16	A16S
ATOM	26019	C5	G	A1233	235.281	118.132	-1.915	1.00	92.16	A16S



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ATOM	26020	N7	G	A1233	234.141	118.230	-2.694	1.00	92.16	A16S
ATOM	26021	C8	G	A1233	233.523	119.281	-2.232	1.00	92.16	A16S
ATOM	26022	C2*	G	A1233	234.722	122.270	-0.523	1.00	74.01	A16S
ATOM	26023	O2*	G	A1233	234.696	122.890	0.750	1.00	74.01	A16S
ATOM	26024	C3*	G	A1233	234.123	123.127	-1.643	1.00	74.01	A16S
ATOM	26025	O3*	G	A1233	234.378	124.522	-1.516	1.00	74.01	A16S
ATOM	26026	P	C	A1234	235.564	125.204	-2.368	1.00	79.52	A16S
ATOM	26027	O1P	C	A1234	235.528	126.668	-2.056	1.00	81.71	A16S
ATOM	26028	O2P	C	A1234	235.486	124.754	-3.785	1.00	81.71	A16S
ATOM	26029	O5*	C	A1234	236.876	124.579	-1.714	1.00	79.52	A16S
ATOM	26030	C5*	C	A1234	237.178	124.829	-0.329	1.00	79.52	A16S
ATOM	26031	C4*	C	A1234	238.463	124.145	0.074	1.00	79.52	A16S
ATOM	26032	O4*	C	A1234	238.284	122.707	0.118	1.00	79.52	A16S
ATOM	26033	C1*	C	A1234	239.472	122.063	-0.294	1.00	79.52	A16S
ATOM	26034	N1	C	A1234	239.150	121.199	-1.452	1.00	81.71	A16S
ATOM	26035	C6	C	A1234	237.998	121.382	-2.166	1.00	81.71	A16S
ATOM	26036	C2	C	A1234	240.035	120.171	-1.799	1.00	81.71	A16S
ATOM	26037	O2	C	A1234	241.086	120.045	-1.161	1.00	81.71	A16S
ATOM	26038	N3	C	A1234	239.722	119.344	-2.820	1.00	81.71	A16S
ATOM	26039	C4	C	A1234	238.582	119.514	-3.490	1.00	81.71	A16S
ATOM	26040	N4	C	A1234	238.297	118.654	-4.471	1.00	81.71	A16S
ATOM	26041	C5	C	A1234	237.678	120.569	-3.180	1.00	81.71	A16S
ATOM	26042	C2*	C	A1234	240.518	123.148	-0.557	1.00	79.52	A16S
ATOM	26043	O2*	C	A1234	241.271	123.307	0.621	1.00	79.52	A16S
ATOM	26044	C3*	C	A1234	239.644	124.364	-0.843	1.00	79.52	A16S
ATOM	26045	O3*	C	A1234	240.275	125.595	-0.546	1.00	79.52	A16S
ATOM	26046	P	U	A1235	241.125	126.336	-1.688	1.00	70.85	A16S
ATOM	26047	O1P	U	A1235	241.772	127.514	-1.040	1.00	76.74	A16S
ATOM	26048	O2P	U	A1235	240.292	126.545	-2.908	1.00	76.74	A16S
ATOM	26049	O5*	U	A1235	242.247	125.249	-2.018	1.00	70.85	A16S
ATOM	26050	C5*	U	A1235	243.314	124.994	-1.080	1.00	70.85	A16S
ATOM	26051	C4*	U	A1235	244.277	123.985	-1.640	1.00	70.85	A16S
ATOM	26052	O4*	U	A1235	243.627	122.689	-1.715	1.00	70.85	A16S
ATOM	26053	C1*	U	A1235	244.124	121.966	-2.837	1.00	70.85	A16S
ATOM	26054	N1	U	A1235	243.006	121.644	-3.753	1.00	76.74	A16S
ATOM	26055	C6	U	A1235	241.880	122.448	-3.837	1.00	76.74	A16S
ATOM	26056	C2	U	A1235	243.120	120.502	-4.554	1.00	76.74	A16S
ATOM	26057	O2	U	A1235	244.080	119.760	-4.527	1.00	76.74	A16S
ATOM	26058	N3	U	A1235	242.061	120.269	-5.394	1.00	76.74	A16S
ATOM	26059	C4	U	A1235	240.922	121.031	-5.530	1.00	76.74	A16S
ATOM	26060	O4	U	A1235	240.074	120.703	-6.362	1.00	76.74	A16S
ATOM	26061	C5	U	A1235	240.865	122.187	-4.676	1.00	76.74	A16S
ATOM	26062	C2*	U	A1235	245.182	122.847	-3.506	1.00	70.85	A16S
ATOM	26063	O2*	U	A1235	246.472	122.537	-3.019	1.00	70.85	A16S
ATOM	26064	C3*	U	A1235	244.755	124.234	-3.059	1.00	70.85	A16S
ATOM	26065	O3*	U	A1235	245.820	125.155	-3.175	1.00	70.85	A16S
ATOM	26066	P	A	A1236	246.018	125.946	-4.564	1.00	79.16	A16S
ATOM	26067	O1P	A	A1236	247.286	126.702	-4.383	1.00	76.10	A16S
ATOM	26068	O2P	A	A1236	244.767	126.683	-4.913	1.00	76.10	A16S
ATOM	26069	O5*	A	A1236	246.229	124.796	-5.663	1.00	79.16	A16S
ATOM	26070	C5*	A	A1236	247.465	124.056	-5.685	1.00	79.16	A16S
ATOM	26071	C4*	A	A1236	247.443	122.869	-6.649	1.00	79.16	A16S
ATOM	26072	O4*	A	A1236	246.368	121.933	-6.371	1.00	79.16	A16S
ATOM	26073	C1*	A	A1236	246.184	121.099	-7.502	1.00	79.16	A16S
ATOM	26074	N9	A	A1236	244.800	121.191	-7.966	1.00	76.10	A16S
ATOM	26075	C4	A	A1236	244.063	120.162	-8.515	1.00	76.10	A16S
ATOM	26076	N3	A	A1236	244.439	118.880	-8.680	1.00	76.10	A16S
ATOM	26077	C2	A	A1236	243.470	118.178	-9.261	1.00	76.10	A16S
ATOM	26078	N1	A	A1236	242.264	118.579	-9.670	1.00	76.10	A16S
ATOM	26079	C6	A	A1236	241.919	119.876	-9.497	1.00	76.10	A16S
ATOM	26080	N6	A	A1236	240.722	120.288	-9.924	1.00	76.10	A16S
ATOM	26081	C5	A	A1236	242.850	120.722	-8.881	1.00	76.10	A16S
ATOM	26082	N7	A	A1236	242.807	122.069	-8.545	1.00	76.10	A16S
ATOM	26083	C8	A	A1236	243.980	122.297	-7.999	1.00	76.10	A16S
ATOM	26084	C2*	A	A1236	247.138	121.586	-8.590	1.00	79.16	A16S
ATOM	26085	O2*	A	A1236	248.288	120.772	-8.497	1.00	79.16	A16S
ATOM	26086	C3*	A	A1236	247.413	123.028	-8.162	1.00	79.16	A16S
ATOM	26087	O3*	A	A1236	248.674	123.445	-8.691	1.00	79.16	A16S
ATOM	26088	P	C	A1237	248.736	124.228	-10.104	1.00	80.40	A16S
ATOM	26089	O1P	C	A1237	249.967	125.059	-10.092	1.00	76.26	A16S
ATOM	26090	O2P	C	A1237	247.429	124.867	-10.383	1.00	76.26	A16S
ATOM	26091	O5*	C	A1237	248.928	123.085	-11.197	1.00	80.40	A16S
ATOM	26092	C5*	C	A1237	250.075	122.222	-11.158	1.00	80.40	A16S
ATOM	26093	C4*	C	A1237	249.752	120.896	-11.793	1.00	80.40	A16S
ATOM	26094	O4*	C	A1237	248.607	120.317	-11.120	1.00	80.40	A16S
ATOM	26095	C1*	C	A1237	247.817	119.598	-12.047	1.00	80.40	A16S
ATOM	26096	N1	C	A1237	246.454	120.179	-12.071	1.00	76.26	A16S



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ATOM	26097	C6	C	A1237	246.254	121.505	-11.815	1.00	76.26	A16S
ATOM	26098	C2	C	A1237	245.360	119.353	-12.391	1.00	76.26	A16S
ATOM	26099	O2	C	A1237	245.550	118.137	-12.578	1.00	76.26	A16S
ATOM	26100	N3	C	A1237	244.125	119.902	-12.483	1.00	76.26	A16S
ATOM	26101	C4	C	A1237	243.954	121.202	-12.257	1.00	76.26	A16S
ATOM	26102	N4	C	A1237	242.730	121.705	-12.382	1.00	76.26	A16S
ATOM	26103	C5	C	A1237	245.033	122.050	-11.898	1.00	76.26	A16S
ATOM	26104	C2*	C	A1237	248.523	119.676	-13.406	1.00	80.40	A16S
ATOM	26105	O2*	C	A1237	249.334	118.533	-13.581	1.00	80.40	A16S
ATOM	26106	C3*	C	A1237	249.363	120.936	-13.258	1.00	80.40	A16S
ATOM	26107	O3*	C	A1237	250.525	120.871	-14.070	1.00	80.40	A16S
ATOM	26108	P	A	A1238	250.416	121.113	-15.657	1.00	76.47	A16S
ATOM	26109	O1P	A	A1238	249.032	120.807	-16.083	1.00	80.36	A16S
ATOM	26110	O2P	A	A1238	251.561	120.414	-16.311	1.00	80.36	A16S
ATOM	26111	O5*	A	A1238	250.667	122.673	-15.822	1.00	76.47	A16S
ATOM	26112	C5*	A	A1238	249.598	123.582	-15.687	1.00	76.47	A16S
ATOM	26113	C4*	A	A1238	250.010	124.783	-14.867	1.00	76.47	A16S
ATOM	26114	O4*	A	A1238	250.690	124.377	-13.644	1.00	76.47	A16S
ATOM	26115	C1*	A	A1238	251.448	125.470	-13.152	1.00	76.47	A16S
ATOM	26116	N9	A	A1238	252.841	125.071	-12.965	1.00	80.36	A16S
ATOM	26117	C4	A	A1238	253.833	125.944	-12.592	1.00	80.36	A16S
ATOM	26118	N3	A	A1238	253.697	127.247	-12.290	1.00	80.36	A16S
ATOM	26119	C2	A	A1238	254.875	127.789	-12.015	1.00	80.36	A16S
ATOM	26120	N1	A	A1238	256.082	127.226	-12.016	1.00	80.36	A16S
ATOM	26121	C6	A	A1238	256.183	125.917	-12.328	1.00	80.36	A16S
ATOM	26122	N6	A	A1238	257.392	125.360	-12.350	1.00	80.36	A16S
ATOM	26123	C5	A	A1238	255.004	125.221	-12.623	1.00	80.36	A16S
ATOM	26124	N7	A	A1238	254.754	123.900	-12.962	1.00	80.36	A16S
ATOM	26125	C8	A	A1238	253.456	123.862	-13.146	1.00	80.36	A16S
ATOM	26126	C2*	A	A1238	251.365	126.587	-14.194	1.00	76.47	A16S
ATOM	26127	O2*	A	A1238	250.392	127.508	-13.727	1.00	76.47	A16S
ATOM	26128	C3*	A	A1238	250.951	125.823	-15.456	1.00	76.47	A16S
ATOM	26129	O3*	A	A1238	250.282	126.681	-16.384	1.00	76.47	A16S
ATOM	26130	P	A	A1239	251.115	127.381	-17.571	1.00	82.07	A16S
ATOM	26131	O1P	A	A1239	250.199	128.218	-18.404	1.00	71.50	A16S
ATOM	26132	O2P	A	A1239	251.936	126.318	-18.217	1.00	71.50	A16S
ATOM	26133	O5*	A	A1239	252.089	128.387	-16.812	1.00	82.07	A16S
ATOM	26134	C5*	A	A1239	251.618	129.664	-16.341	1.00	82.07	A16S
ATOM	26135	C4*	A	A1239	252.659	130.734	-16.600	1.00	82.07	A16S
ATOM	26136	O4*	A	A1239	253.882	130.400	-15.886	1.00	82.07	A16S
ATOM	26137	C1*	A	A1239	254.969	130.412	-16.787	1.00	82.07	A16S
ATOM	26138	N9	A	A1239	255.962	129.428	-16.368	1.00	71.50	A16S
ATOM	26139	C4	A	A1239	257.291	129.707	-16.176	1.00	71.50	A16S
ATOM	26140	N3	A	A1239	257.902	130.898	-16.325	1.00	71.50	A16S
ATOM	26141	C2	A	A1239	259.204	130.787	-16.073	1.00	71.50	A16S
ATOM	26142	N1	A	A1239	259.913	129.700	-15.723	1.00	71.50	A16S
ATOM	26143	C6	A	A1239	259.264	128.519	-15.591	1.00	71.50	A16S
ATOM	26144	N6	A	A1239	259.967	127.430	-15.265	1.00	71.50	A16S
ATOM	26145	C5	A	A1239	257.879	128.507	-15.816	1.00	71.50	A16S
ATOM	26146	N7	A	A1239	256.932	127.492	-15.763	1.00	71.50	A16S
ATOM	26147	C8	A	A1239	255.815	128.090	-16.097	1.00	71.50	A16S
ATOM	26148	C2*	A	A1239	254.375	130.158	-18.164	1.00	82.07	A16S
ATOM	26149	O2*	A	A1239	255.265	130.609	-19.162	1.00	82.07	A16S
ATOM	26150	C3*	A	A1239	253.061	130.934	-18.059	1.00	82.07	A16S
ATOM	26151	O3*	A	A1239	253.317	132.319	-18.266	1.00	82.07	A16S
ATOM	26152	P	U	A1240	252.295	133.196	-19.137	1.00	78.51	A16S
ATOM	26153	O1P	U	A1240	251.578	132.261	-20.048	1.00	82.74	A16S
ATOM	26154	O2P	U	A1240	253.026	134.361	-19.705	1.00	82.74	A16S
ATOM	26155	O5*	U	A1240	251.243	133.727	-18.062	1.00	78.51	A16S
ATOM	26156	C5*	U	A1240	251.568	134.814	-17.165	1.00	78.51	A16S
ATOM	26157	C4*	U	A1240	250.319	135.295	-16.466	1.00	78.51	A16S
ATOM	26158	O4*	U	A1240	249.397	135.845	-17.446	1.00	78.51	A16S
ATOM	26159	C1*	U	A1240	248.161	135.184	-17.338	1.00	78.51	A16S
ATOM	26160	N1	U	A1240	247.475	135.209	-18.637	1.00	82.74	A16S
ATOM	26161	C6	U	A1240	247.875	134.433	-19.699	1.00	82.74	A16S
ATOM	26162	C2	U	A1240	246.377	136.052	-18.750	1.00	82.74	A16S
ATOM	26163	O2	U	A1240	245.997	136.777	-17.844	1.00	82.74	A16S
ATOM	26164	N3	U	A1240	245.736	136.021	-19.962	1.00	82.74	A16S
ATOM	26165	C4	U	A1240	246.064	135.256	-21.051	1.00	82.74	A16S
ATOM	26166	O4	U	A1240	245.331	135.284	-22.045	1.00	82.74	A16S
ATOM	26167	C5	U	A1240	247.223	134.425	-20.871	1.00	82.74	A16S
ATOM	26168	C2*	U	A1240	248.481	133.818	-16.744	1.00	78.51	A16S
ATOM	26169	O2*	U	A1240	247.333	133.254	-16.164	1.00	78.51	A16S
ATOM	26170	C3*	U	A1240	249.558	134.196	-15.734	1.00	78.51	A16S
ATOM	26171	O3*	U	A1240	248.898	134.774	-14.610	1.00	78.51	A16S
ATOM	26172	P	G	A1241	249.685	134.991	-13.218	1.00	74.34	A16S
ATOM	26173	O1P	G	A1241	248.622	135.195	-12.184	1.00	76.14	A16S



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ATOM	26174	O2P	G	A1241	250.723	136.040	-13.430	1.00	76.14	A16S
ATOM	26175	O5*	G	A1241	250.386	133.594	-12.916	1.00	74.34	A16S
ATOM	26176	C5*	G	A1241	249.596	132.416	-12.815	1.00	74.34	A16S
ATOM	26177	C4*	G	A1241	250.455	131.250	-12.451	1.00	74.34	A16S
ATOM	26178	O4*	G	A1241	251.428	131.028	-13.496	1.00	74.34	A16S
ATOM	26179	C1*	G	A1241	252.658	130.620	-12.925	1.00	74.34	A16S
ATOM	26180	N9	G	A1241	253.669	131.619	-13.277	1.00	76.14	A16S
ATOM	26181	C4	G	A1241	255.034	131.476	-13.172	1.00	76.14	A16S
ATOM	26182	N3	G	A1241	255.682	130.394	-12.695	1.00	76.14	A16S
ATOM	26183	C2	G	A1241	256.985	130.535	-12.751	1.00	76.14	A16S
ATOM	26184	N2	G	A1241	257.767	129.548	-12.328	1.00	76.14	A16S
ATOM	26185	N1	G	A1241	257.609	131.655	-13.229	1.00	76.14	A16S
ATOM	26186	C6	G	A1241	256.960	132.786	-13.718	1.00	76.14	A16S
ATOM	26187	O6	G	A1241	257.615	133.748	-14.129	1.00	76.14	A16S
ATOM	26188	C5	G	A1241	255.563	132.646	-13.666	1.00	76.14	A16S
ATOM	26189	N7	G	A1241	254.558	133.522	-14.053	1.00	76.14	A16S
ATOM	26190	C8	G	A1241	253.453	132.875	-13.800	1.00	76.14	A16S
ATOM	26191	C2*	G	A1241	252.434	130.468	-11.420	1.00	74.34	A16S
ATOM	26192	O2*	G	A1241	252.068	129.132	-11.138	1.00	74.34	A16S
ATOM	26193	C3*	G	A1241	251.277	131.429	-11.197	1.00	74.34	A16S
ATOM	26194	O3*	G	A1241	250.518	131.106	-10.057	1.00	74.34	A16S
ATOM	26195	P	C	A1242	250.936	131.725	-8.641	1.00	76.28	A16S
ATOM	26196	O1P	C	A1242	249.865	131.351	-7.667	1.00	79.95	A16S
ATOM	26197	O2P	C	A1242	251.283	133.167	-8.848	1.00	79.95	A16S
ATOM	26198	O5*	C	A1242	252.252	130.910	-8.264	1.00	76.28	A16S
ATOM	26199	C5*	C	A1242	252.145	129.557	-7.799	1.00	76.28	A16S
ATOM	26200	C4*	C	A1242	253.510	128.978	-7.531	1.00	76.28	A16S
ATOM	26201	O4*	C	A1242	254.243	128.938	-8.775	1.00	76.28	A16S
ATOM	26202	C1*	C	A1242	255.610	129.186	-8.531	1.00	76.28	A16S
ATOM	26203	N1	C	A1242	255.949	130.461	-9.171	1.00	79.95	A16S
ATOM	26204	C6	C	A1242	254.967	131.283	-9.650	1.00	79.95	A16S
ATOM	26205	C2	C	A1242	257.292	130.835	-9.267	1.00	79.95	A16S
ATOM	26206	O2	C	A1242	258.167	130.063	-8.828	1.00	79.95	A16S
ATOM	26207	N3	C	A1242	257.603	132.029	-9.827	1.00	79.95	A16S
ATOM	26208	C4	C	A1242	256.630	132.833	-10.271	1.00	79.95	A16S
ATOM	26209	N4	C	A1242	256.975	134.013	-10.788	1.00	79.95	A16S
ATOM	26210	C5	C	A1242	255.259	132.465	-10.197	1.00	79.95	A16S
ATOM	26211	C2*	C	A1242	255.797	129.257	-7.019	1.00	76.28	A16S
ATOM	26212	O2*	C	A1242	256.134	127.960	-6.559	1.00	76.28	A16S
ATOM	26213	C3*	C	A1242	254.420	129.736	-6.573	1.00	76.28	A16S
ATOM	26214	O3*	C	A1242	254.126	129.461	-5.195	1.00	76.28	A16S
ATOM	26215	P	C	A1243	254.204	130.650	-4.104	1.00	84.59	A16S
ATOM	26216	O1P	C	A1243	253.677	130.111	-2.818	1.00	76.55	A16S
ATOM	26217	O2P	C	A1243	253.614	131.892	-4.679	1.00	76.55	A16S
ATOM	26218	O5*	C	A1243	255.772	130.862	-3.915	1.00	84.59	A16S
ATOM	26219	C5*	C	A1243	256.624	129.741	-3.551	1.00	84.59	A16S
ATOM	26220	C4*	C	A1243	258.094	130.121	-3.614	1.00	84.59	A16S
ATOM	26221	O4*	C	A1243	258.517	130.347	-4.982	1.00	84.59	A16S
ATOM	26222	C1*	C	A1243	259.491	131.374	-5.012	1.00	84.59	A16S
ATOM	26223	N1	C	A1243	258.962	132.498	-5.800	1.00	76.55	A16S
ATOM	26224	C6	C	A1243	257.618	132.652	-6.000	1.00	76.55	A16S
ATOM	26225	C2	C	A1243	259.869	133.413	-6.354	1.00	76.55	A16S
ATOM	26226	O2	C	A1243	261.093	133.265	-6.126	1.00	76.55	A16S
ATOM	26227	N3	C	A1243	259.395	134.435	-7.116	1.00	76.55	A16S
ATOM	26228	C4	C	A1243	258.081	134.563	-7.317	1.00	76.55	A16S
ATOM	26229	N4	C	A1243	257.657	135.573	-8.086	1.00	76.55	A16S
ATOM	26230	C5	C	A1243	257.139	133.658	-6.742	1.00	76.55	A16S
ATOM	26231	C2*	C	A1243	259.786	131.785	-3.574	1.00	84.59	A16S
ATOM	26232	O2*	C	A1243	260.911	131.064	-3.105	1.00	84.59	A16S
ATOM	26233	C3*	C	A1243	258.491	131.388	-2.882	1.00	84.59	A16S
ATOM	26234	O3*	C	A1243	258.668	131.153	-1.504	1.00	84.59	A16S
ATOM	26235	P	C	A1244	258.459	132.359	-0.472	1.00	121.98	A16S
ATOM	26236	O1P	C	A1244	258.508	131.706	0.868	1.00	89.72	A16S
ATOM	26237	O2P	C	A1244	257.266	133.156	-0.865	1.00	89.72	A16S
ATOM	26238	O5*	C	A1244	259.743	133.276	-0.700	1.00	121.98	A16S
ATOM	26239	C5*	C	A1244	261.036	132.875	-0.203	1.00	121.98	A16S
ATOM	26240	C4*	C	A1244	262.051	133.961	-0.455	1.00	121.98	A16S
ATOM	26241	O4*	C	A1244	262.290	134.069	-1.881	1.00	121.98	A16S
ATOM	26242	C1*	C	A1244	262.480	135.428	-2.231	1.00	121.98	A16S
ATOM	26243	N1	C	A1244	261.365	135.842	-3.096	1.00	89.72	A16S
ATOM	26244	C6	C	A1244	260.147	135.220	-3.017	1.00	89.72	A16S
ATOM	26245	C2	C	A1244	261.561	136.911	-3.989	1.00	89.72	A16S
ATOM	26246	O2	C	A1244	262.683	137.441	-4.063	1.00	89.72	A16S
ATOM	26247	N3	C	A1244	260.524	137.337	-4.746	1.00	89.72	A16S
ATOM	26248	C4	C	A1244	259.334	136.733	-4.647	1.00	89.72	A16S
ATOM	26249	N4	C	A1244	258.334	137.196	-5.405	1.00	89.72	A16S
ATOM	26250	C5	C	A1244	259.115	135.628	-3.763	1.00	89.72	A16S



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ATOM	26251	C2* C	A1244	262.462	136.248	-0.942	1.00121.98	A16S
ATOM	26252	O2* C	A1244	263.778	136.443	-0.475	1.00121.98	A16S
ATOM	26253	C3* C	A1244	261.625	135.360	-0.034	1.00121.98	A16S
ATOM	26254	O3* C	A1244	261.838	135.625	1.346	1.00121.98	A16S
ATOM	26255	P A	A1245	260.983	136.781	2.073	1.00109.40	A16S
ATOM	26256	O1P A	A1245	261.321	136.688	3.521	1.00111.01	A16S
ATOM	26257	O2P A	A1245	259.559	136.709	1.646	1.00111.01	A16S
ATOM	26258	O5* A	A1245	261.600	138.119	1.476	1.00109.40	A16S
ATOM	26259	C5* A	A1245	263.001	138.377	1.600	1.00109.40	A16S
ATOM	26260	C4* A	A1245	263.390	139.553	0.758	1.00109.40	A16S
ATOM	26261	O4* A	A1245	263.151	139.245	-0.637	1.00109.40	A16S
ATOM	26262	C1* A	A1245	262.744	140.418	-1.321	1.00109.40	A16S
ATOM	26263	N9 A	A1245	261.405	140.197	-1.858	1.00111.01	A16S
ATOM	26264	C4 A	A1245	260.827	140.917	-2.871	1.00111.01	A16S
ATOM	26265	N3 A	A1245	261.374	141.931	-3.560	1.00111.01	A16S
ATOM	26266	C2 A	A1245	260.510	142.410	-4.451	1.00111.01	A16S
ATOM	26267	N1 A	A1245	259.258	142.016	-4.715	1.00111.01	A16S
ATOM	26268	C6 A	A1245	258.741	140.987	-4.006	1.00111.01	A16S
ATOM	26269	N6 A	A1245	257.494	140.588	-4.270	1.00111.01	A16S
ATOM	26270	C5 A	A1245	259.556	140.397	-3.024	1.00111.01	A16S
ATOM	26271	N7 A	A1245	259.337	139.359	-2.127	1.00111.01	A16S
ATOM	26272	C8 A	A1245	260.463	139.277	-1.463	1.00111.01	A16S
ATOM	26273	C2* A	A1245	262.740	141.569	-0.314	1.00109.40	A16S
ATOM	26274	O2* A	A1245	263.935	142.316	-0.435	1.00109.40	A16S
ATOM	26275	C3* A	A1245	262.593	140.819	1.006	1.00109.40	A16S
ATOM	26276	O3* A	A1245	263.058	141.541	2.138	1.00109.40	A16S
ATOM	26277	P C	A1246	262.007	142.370	3.028	1.00120.10	A16S
ATOM	26278	O1P C	A1246	262.683	142.698	4.306	1.00138.75	A16S
ATOM	26279	O2P C	A1246	260.721	141.620	3.056	1.00138.75	A16S
ATOM	26280	O5* C	A1246	261.795	143.718	2.198	1.00120.10	A16S
ATOM	26281	C5* C	A1246	262.896	144.630	1.977	1.00120.10	A16S
ATOM	26282	C4* C	A1246	262.564	145.635	0.889	1.00120.10	A16S
ATOM	26283	O4* C	A1246	262.414	144.952	-0.386	1.00120.10	A16S
ATOM	26284	C1* C	A1246	261.403	145.590	-1.161	1.00120.10	A16S
ATOM	26285	N1 C	A1246	260.266	144.652	-1.313	1.00138.75	A16S
ATOM	26286	C6 C	A1246	260.085	143.621	-0.427	1.00138.75	A16S
ATOM	26287	C2 C	A1246	259.354	144.845	-2.370	1.00138.75	A16S
ATOM	26288	O2 C	A1246	259.541	145.775	-3.173	1.00138.75	A16S
ATOM	26289	N3 C	A1246	258.295	144.013	-2.482	1.00138.75	A16S
ATOM	26290	C4 C	A1246	258.125	143.024	-1.599	1.00138.75	A16S
ATOM	26291	N4 C	A1246	257.059	142.240	-1.742	1.00138.75	A16S
ATOM	26292	C5 C	A1246	259.039	142.797	-0.530	1.00138.75	A16S
ATOM	26293	C2* C	A1246	260.952	146.829	-0.391	1.00120.10	A16S
ATOM	26294	O2* C	A1246	261.642	147.986	-0.835	1.00120.10	A16S
ATOM	26295	C3* C	A1246	261.262	146.407	1.041	1.00120.10	A16S
ATOM	26296	O3* C	A1246	261.306	147.488	1.954	1.00120.10	A16S
ATOM	26297	P U	A1247	259.985	147.839	2.802	1.00117.30	A16S
ATOM	26298	O1P U	A1247	260.295	148.982	3.689	1.00104.30	A16S
ATOM	26299	O2P U	A1247	259.468	146.568	3.393	1.00104.30	A16S
ATOM	26300	O5* U	A1247	258.963	148.355	1.693	1.00117.30	A16S
ATOM	26301	C5* U	A1247	259.303	149.470	0.844	1.00117.30	A16S
ATOM	26302	C4* U	A1247	258.202	149.732	-0.161	1.00117.30	A16S
ATOM	26303	O4* U	A1247	258.180	148.684	-1.172	1.00117.30	A16S
ATOM	26304	C1* U	A1247	256.834	148.385	-1.527	1.00117.30	A16S
ATOM	26305	N1 U	A1247	256.493	147.054	-0.983	1.00104.30	A16S
ATOM	26306	C6 U	A1247	257.212	146.500	0.059	1.00104.30	A16S
ATOM	26307	C2 U	A1247	255.410	146.373	-1.528	1.00104.30	A16S
ATOM	26308	O2 U	A1247	254.757	146.802	-2.463	1.00104.30	A16S
ATOM	26309	N3 U	A1247	255.121	145.167	-0.932	1.00104.30	A16S
ATOM	26310	C4 U	A1247	255.790	144.578	0.124	1.00104.30	A16S
ATOM	26311	O4 U	A1247	255.380	143.512	0.586	1.00104.30	A16S
ATOM	26312	C5 U	A1247	256.904	145.323	0.612	1.00104.30	A16S
ATOM	26313	C2* U	A1247	255.965	149.452	-0.863	1.00117.30	A16S
ATOM	26314	O2* U	A1247	255.839	150.579	-1.712	1.00117.30	A16S
ATOM	26315	C3* U	A1247	256.784	149.749	0.385	1.00117.30	A16S
ATOM	26316	O3* U	A1247	256.417	150.948	1.048	1.00117.30	A16S
ATOM	26317	P A	A1248	255.245	150.907	2.156	1.00122.26	A16S
ATOM	26318	O1P A	A1248	255.320	152.196	2.895	1.00121.03	A16S
ATOM	26319	O2P A	A1248	255.302	149.622	2.910	1.00121.03	A16S
ATOM	26320	O5* A	A1248	253.923	150.906	1.269	1.00122.26	A16S
ATOM	26321	C5* A	A1248	253.772	151.897	0.248	1.00122.26	A16S
ATOM	26322	C4* A	A1248	252.409	151.827	-0.379	1.00122.26	A16S
ATOM	26323	O4* A	A1248	252.339	150.766	-1.360	1.00122.26	A16S
ATOM	26324	C1* A	A1248	250.996	150.344	-1.489	1.00122.26	A16S
ATOM	26325	N9 A	A1248	250.919	148.910	-1.215	1.00121.03	A16S
ATOM	26326	C4 A	A1248	250.019	148.039	-1.786	1.00121.03	A16S
ATOM	26327	N3 A	A1248	249.085	148.323	-2.714	1.00121.03	A16S



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ATOM	26328	C2	A	A1248	248.384	147.237	-3.020	1.00121.03	A16S
ATOM	26329	N1	A	A1248	248.498	145.989	-2.540	1.00121.03	A16S
ATOM	26330	C6	A	A1248	249.445	145.735	-1.606	1.00121.03	A16S
ATOM	26331	N6	A	A1248	249.553	144.491	-1.121	1.00121.03	A16S
ATOM	26332	C5	A	A1248	250.262	146.807	-1.199	1.00121.03	A16S
ATOM	26333	N7	A	A1248	251.309	146.893	-0.290	1.00121.03	A16S
ATOM	26334	C8	A	A1248	251.668	148.155	-0.340	1.00121.03	A16S
ATOM	26335	C2*	A	A1248	250.159	151.152	-0.492	1.00122.26	A16S
ATOM	26336	O2*	A	A1248	249.565	152.253	-1.156	1.00122.26	A16S
ATOM	26337	C3*	A	A1248	251.212	151.591	0.520	1.00122.26	A16S
ATOM	26338	O3*	A	A1248	250.835	152.770	1.223	1.00122.26	A16S
ATOM	26339	P	C	A1249	249.545	152.748	2.189	1.00108.90	A16S
ATOM	26340	O1P	C	A1249	249.499	154.027	2.952	1.00 86.20	A16S
ATOM	26341	O2P	C	A1249	249.495	151.456	2.934	1.00 86.20	A16S
ATOM	26342	O5*	C	A1249	248.352	152.803	1.141	1.00108.90	A16S
ATOM	26343	C5*	C	A1249	247.020	152.520	1.548	1.00108.90	A16S
ATOM	26344	C4*	C	A1249	246.084	152.590	0.371	1.00108.90	A16S
ATOM	26345	O4*	C	A1249	246.627	151.839	-0.749	1.00108.90	A16S
ATOM	26346	C1*	C	A1249	245.653	150.920	-1.218	1.00108.90	A16S
ATOM	26347	N1	C	A1249	246.041	149.574	-0.727	1.00 86.20	A16S
ATOM	26348	C6	C	A1249	246.959	149.440	0.282	1.00 86.20	A16S
ATOM	26349	C2	C	A1249	245.445	148.433	-1.296	1.00 86.20	A16S
ATOM	26350	O2	C	A1249	244.616	148.572	-2.231	1.00 86.20	A16S
ATOM	26351	N3	C	A1249	245.788	147.210	-0.811	1.00 86.20	A16S
ATOM	26352	C4	C	A1249	246.679	147.104	0.181	1.00 86.20	A16S
ATOM	26353	N4	C	A1249	246.984	145.886	0.627	1.00 86.20	A16S
ATOM	26354	C5	C	A1249	247.298	148.242	0.759	1.00 86.20	A16S
ATOM	26355	C2*	C	A1249	244.306	151.367	-0.632	1.00108.90	A16S
ATOM	26356	O2*	C	A1249	243.672	152.316	-1.464	1.00108.90	A16S
ATOM	26357	C3*	C	A1249	244.750	151.948	0.700	1.00108.90	A16S
ATOM	26358	O3*	C	A1249	243.869	152.890	1.276	1.00108.90	A16S
ATOM	26359	P	A	A1250	243.466	152.745	2.824	1.00119.81	A16S
ATOM	26360	O1P	A	A1250	242.765	154.019	3.141	1.00 85.55	A16S
ATOM	26361	O2P	A	A1250	244.643	152.321	3.638	1.00 85.55	A16S
ATOM	26362	O5*	A	A1250	242.427	151.532	2.854	1.00119.81	A16S
ATOM	26363	C5*	A	A1250	241.613	151.252	1.707	1.00119.81	A16S
ATOM	26364	C4*	A	A1250	240.540	150.224	2.011	1.00119.81	A16S
ATOM	26365	O4*	A	A1250	241.048	148.869	1.983	1.00119.81	A16S
ATOM	26366	C1*	A	A1250	240.078	148.026	2.573	1.00119.81	A16S
ATOM	26367	N9	A	A1250	240.710	147.043	3.457	1.00 85.55	A16S
ATOM	26368	C4	A	A1250	240.311	145.728	3.556	1.00 85.55	A16S
ATOM	26369	N3	A	A1250	239.314	145.132	2.885	1.00 85.55	A16S
ATOM	26370	C2	A	A1250	239.218	143.858	3.230	1.00 85.55	A16S
ATOM	26371	N1	A	A1250	239.948	143.154	4.106	1.00 85.55	A16S
ATOM	26372	C6	A	A1250	240.937	143.777	4.770	1.00 85.55	A16S
ATOM	26373	N6	A	A1250	241.648	143.066	5.650	1.00 85.55	A16S
ATOM	26374	C5	A	A1250	241.147	145.146	4.491	1.00 85.55	A16S
ATOM	26375	N7	A	A1250	242.054	146.076	4.980	1.00 85.55	A16S
ATOM	26376	C8	A	A1250	241.755	147.183	4.334	1.00 85.55	A16S
ATOM	26377	C2*	A	A1250	239.053	148.912	3.278	1.00119.81	A16S
ATOM	26378	O2*	A	A1250	237.905	148.931	2.455	1.00119.81	A16S
ATOM	26379	C3*	A	A1250	239.760	150.268	3.312	1.00119.81	A16S
ATOM	26380	O3*	A	A1250	238.807	151.327	3.364	1.00119.81	A16S
ATOM	26381	P	A	A1251	238.276	151.860	4.799	1.00107.90	A16S
ATOM	26382	O1P	A	A1251	237.701	153.222	4.562	1.00 80.02	A16S
ATOM	26383	O2P	A	A1251	239.344	151.672	5.831	1.00 80.02	A16S
ATOM	26384	O5*	A	A1251	237.086	150.869	5.187	1.00107.90	A16S
ATOM	26385	C5*	A	A1251	235.913	150.770	4.362	1.00107.90	A16S
ATOM	26386	C4*	A	A1251	235.261	149.416	4.520	1.00107.90	A16S
ATOM	26387	O4*	A	A1251	236.210	148.367	4.225	1.00107.90	A16S
ATOM	26388	C1*	A	A1251	235.912	147.229	4.999	1.00107.90	A16S
ATOM	26389	N9	A	A1251	237.112	146.846	5.733	1.00 80.02	A16S
ATOM	26390	C4	A	A1251	237.444	145.571	6.116	1.00 80.02	A16S
ATOM	26391	N3	A	A1251	236.744	144.448	5.892	1.00 80.02	A16S
ATOM	26392	C2	A	A1251	237.372	143.395	6.411	1.00 80.02	A16S
ATOM	26393	N1	A	A1251	238.531	143.342	7.083	1.00 80.02	A16S
ATOM	26394	C6	A	A1251	239.206	144.493	7.292	1.00 80.02	A16S
ATOM	26395	N6	A	A1251	240.358	144.442	7.967	1.00 80.02	A16S
ATOM	26396	C5	A	A1251	238.648	145.678	6.783	1.00 80.02	A16S
ATOM	26397	N7	A	A1251	239.075	146.996	6.812	1.00 80.02	A16S
ATOM	26398	C8	A	A1251	238.130	147.647	6.178	1.00 80.02	A16S
ATOM	26399	C2*	A	A1251	234.709	147.556	5.883	1.00107.90	A16S
ATOM	26400	O2*	A	A1251	233.541	147.069	5.261	1.00107.90	A16S
ATOM	26401	C3*	A	A1251	234.724	149.077	5.894	1.00107.90	A16S
ATOM	26402	O3*	A	A1251	233.404	149.584	5.995	1.00107.90	A16S
ATOM	26403	P	A	A1252	232.872	150.157	7.396	1.00103.47	A16S
ATOM	26404	O1P	A	A1252	231.699	151.032	7.059	1.00 84.13	A16S



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ATOM	26405	O2P	A	A1252	234.028	150.725	8.132	1.00	84.13	A16S
ATOM	26406	O5*	A	A1252	232.386	148.862	8.193	1.00	103.47	A16S
ATOM	26407	C5*	A	A1252	231.302	148.059	7.699	1.00	103.47	A16S
ATOM	26408	C4*	A	A1252	231.455	146.635	8.160	1.00	103.47	A16S
ATOM	26409	O4*	A	A1252	232.731	146.122	7.703	1.00	103.47	A16S
ATOM	26410	C1*	A	A1252	233.248	145.210	8.651	1.00	103.47	A16S
ATOM	26411	N9	A	A1252	234.590	145.642	9.038	1.00	84.13	A16S
ATOM	26412	C4	A	A1252	235.553	144.854	9.631	1.00	84.13	A16S
ATOM	26413	N3	A	A1252	235.446	143.559	9.993	1.00	84.13	A16S
ATOM	26414	C2	A	A1252	236.596	143.118	10.511	1.00	84.13	A16S
ATOM	26415	N1	A	A1252	237.753	143.772	10.691	1.00	84.13	A16S
ATOM	26416	C6	A	A1252	237.826	145.068	10.315	1.00	84.13	A16S
ATOM	26417	N6	A	A1252	238.979	145.713	10.474	1.00	84.13	A16S
ATOM	26418	C5	A	A1252	236.672	145.660	9.763	1.00	84.13	A16S
ATOM	26419	N7	A	A1252	236.412	146.939	9.290	1.00	84.13	A16S
ATOM	26420	C8	A	A1252	235.167	146.880	8.878	1.00	84.13	A16S
ATOM	26421	C2*	A	A1252	232.263	145.123	9.813	1.00	103.47	A16S
ATOM	26422	O2*	A	A1252	231.488	143.953	9.653	1.00	103.47	A16S
ATOM	26423	C3*	A	A1252	231.475	146.427	9.662	1.00	103.47	A16S
ATOM	26424	O3*	A	A1252	230.143	146.349	10.178	1.00	103.47	A16S
ATOM	26425	P	G	A1253	229.903	146.276	11.773	1.00	93.82	A16S
ATOM	26426	O1P	G	A1253	228.546	145.664	12.001	1.00	80.41	A16S
ATOM	26427	O2P	G	A1253	230.225	147.607	12.367	1.00	80.41	A16S
ATOM	26428	O5*	G	A1253	231.014	145.238	12.240	1.00	93.82	A16S
ATOM	26429	C5*	G	A1253	231.183	144.872	13.600	1.00	93.82	A16S
ATOM	26430	C4*	G	A1253	231.994	143.616	13.656	1.00	93.82	A16S
ATOM	26431	O4*	G	A1253	233.108	143.740	12.738	1.00	93.82	A16S
ATOM	26432	C1*	G	A1253	234.245	143.083	13.277	1.00	93.82	A16S
ATOM	26433	N9	G	A1253	235.321	144.066	13.438	1.00	80.41	A16S
ATOM	26434	C4	G	A1253	236.587	143.819	13.916	1.00	80.41	A16S
ATOM	26435	N3	G	A1253	237.072	142.617	14.302	1.00	80.41	A16S
ATOM	26436	C2	G	A1253	238.324	142.701	14.721	1.00	80.41	A16S
ATOM	26437	N2	G	A1253	238.973	141.601	15.136	1.00	80.41	A16S
ATOM	26438	N1	G	A1253	239.035	143.868	14.766	1.00	80.41	A16S
ATOM	26439	C6	G	A1253	238.555	145.115	14.379	1.00	80.41	A16S
ATOM	26440	O6	G	A1253	239.282	146.112	14.474	1.00	80.41	A16S
ATOM	26441	C5	G	A1253	237.221	145.041	13.916	1.00	80.41	A16S
ATOM	26442	N7	G	A1253	236.382	146.035	13.432	1.00	80.41	A16S
ATOM	26443	C8	G	A1253	235.270	145.414	13.158	1.00	80.41	A16S
ATOM	26444	C2*	G	A1253	233.814	142.428	14.595	1.00	93.82	A16S
ATOM	26445	O2*	G	A1253	233.443	141.085	14.357	1.00	93.82	A16S
ATOM	26446	C3*	G	A1253	232.624	143.291	14.991	1.00	93.82	A16S
ATOM	26447	O3*	G	A1253	231.707	142.620	15.828	1.00	93.82	A16S
ATOM	26448	P	C	A1254	231.398	143.212	17.287	1.00	110.69	A16S
ATOM	26449	O1P	C	A1254	230.039	142.745	17.679	1.00	84.31	A16S
ATOM	26450	O2P	C	A1254	231.694	144.676	17.251	1.00	84.31	A16S
ATOM	26451	O5*	C	A1254	232.450	142.470	18.223	1.00	110.69	A16S
ATOM	26452	C5*	C	A1254	232.480	141.041	18.281	1.00	110.69	A16S
ATOM	26453	C4*	C	A1254	233.891	140.565	18.489	1.00	110.69	A16S
ATOM	26454	O4*	C	A1254	234.732	141.054	17.412	1.00	110.69	A16S
ATOM	26455	C1*	C	A1254	236.042	141.303	17.899	1.00	110.69	A16S
ATOM	26456	N1	C	A1254	236.371	142.724	17.685	1.00	84.31	A16S
ATOM	26457	C6	C	A1254	235.425	143.614	17.251	1.00	84.31	A16S
ATOM	26458	C2	C	A1254	237.686	143.157	17.938	1.00	84.31	A16S
ATOM	26459	O2	C	A1254	238.528	142.326	18.329	1.00	84.31	A16S
ATOM	26460	N3	C	A1254	238.003	144.467	17.747	1.00	84.31	A16S
ATOM	26461	C4	C	A1254	237.066	145.327	17.318	1.00	84.31	A16S
ATOM	26462	N4	C	A1254	237.418	146.611	17.135	1.00	84.31	A16S
ATOM	26463	C5	C	A1254	235.724	144.909	17.054	1.00	84.31	A16S
ATOM	26464	C2*	C	A1254	236.057	140.930	19.379	1.00	110.69	A16S
ATOM	26465	O2*	C	A1254	236.532	139.603	19.515	1.00	110.69	A16S
ATOM	26466	C3*	C	A1254	234.584	141.070	19.740	1.00	110.69	A16S
ATOM	26467	O3*	C	A1254	234.228	140.319	20.888	1.00	110.69	A16S
ATOM	26468	P	G	A1255	234.029	141.076	22.291	1.00	119.46	A16S
ATOM	26469	O1P	G	A1255	233.310	140.148	23.215	1.00	89.11	A16S
ATOM	26470	O2P	G	A1255	233.461	142.423	21.997	1.00	89.11	A16S
ATOM	26471	O5*	G	A1255	235.512	141.267	22.840	1.00	119.46	A16S
ATOM	26472	C5*	G	A1255	236.318	140.129	23.203	1.00	119.46	A16S
ATOM	26473	C4*	G	A1255	237.708	140.578	23.570	1.00	119.46	A16S
ATOM	26474	O4*	G	A1255	238.306	141.246	22.431	1.00	119.46	A16S
ATOM	26475	C1*	G	A1255	239.142	142.296	22.877	1.00	119.46	A16S
ATOM	26476	N9	G	A1255	238.717	143.544	22.250	1.00	89.11	A16S
ATOM	26477	C4	G	A1255	239.509	144.646	22.023	1.00	89.11	A16S
ATOM	26478	N3	G	A1255	240.819	144.762	22.342	1.00	89.11	A16S
ATOM	26479	C2	G	A1255	241.306	145.958	22.017	1.00	89.11	A16S
ATOM	26480	N2	G	A1255	242.591	146.254	22.281	1.00	89.11	A16S
ATOM	26481	N1	G	A1255	240.570	146.955	21.416	1.00	89.11	A16S



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ATOM	26482	C6	G	A1255	239.224	146.860	21.077	1.00	89.11	A16S
ATOM	26483	O6	G	A1255	238.657	147.826	20.547	1.00	89.11	A16S
ATOM	26484	C5	G	A1255	238.681	145.577	21.426	1.00	89.11	A16S
ATOM	26485	N7	G	A1255	237.399	145.068	21.274	1.00	89.11	A16S
ATOM	26486	C8	G	A1255	237.467	143.862	21.774	1.00	89.11	A16S
ATOM	26487	C2*	G	A1255	239.091	142.322	24.405	1.00119.46		A16S
ATOM	26488	O2*	G	A1255	240.212	141.620	24.894	1.00119.46		A16S
ATOM	26489	C3*	G	A1255	237.781	141.597	24.694	1.00119.46		A16S
ATOM	26490	O3*	G	A1255	237.793	140.955	25.969	1.00119.46		A16S
ATOM	26491	P	A	A1256	236.685	141.342	27.069	1.00155.72		A16S
ATOM	26492	O1P	A	A1256	235.541	140.422	26.859	1.00137.08		A16S
ATOM	26493	O2P	A	A1256	236.464	142.808	27.023	1.00137.08		A16S
ATOM	26494	O5*	A	A1256	237.364	140.983	28.468	1.00155.72		A16S
ATOM	26495	C5*	A	A1256	238.022	139.712	28.670	1.00155.72		A16S
ATOM	26496	C4*	A	A1256	238.587	139.603	30.079	1.00155.72		A16S
ATOM	26497	O4*	A	A1256	239.486	140.712	30.329	1.00155.72		A16S
ATOM	26498	C1*	A	A1256	239.420	141.089	31.691	1.00155.72		A16S
ATOM	26499	N9	A	A1256	239.104	142.513	31.756	1.00137.08		A16S
ATOM	26500	C4	A	A1256	239.689	143.491	30.987	1.00137.08		A16S
ATOM	26501	N3	A	A1256	240.618	143.331	30.030	1.00137.08		A16S
ATOM	26502	C2	A	A1256	240.969	144.506	29.514	1.00137.08		A16S
ATOM	26503	N1	A	A1256	240.534	145.729	29.821	1.00137.08		A16S
ATOM	26504	C6	A	A1256	239.597	145.855	30.785	1.00137.08		A16S
ATOM	26505	N6	A	A1256	239.165	147.074	31.098	1.00137.08		A16S
ATOM	26506	C5	A	A1256	239.135	144.683	31.408	1.00137.08		A16S
ATOM	26507	N7	A	A1256	238.197	144.462	32.410	1.00137.08		A16S
ATOM	26508	C8	A	A1256	238.215	143.162	32.576	1.00137.08		A16S
ATOM	26509	C2*	A	A1256	238.436	140.166	32.407	1.00155.72		A16S
ATOM	26510	O2*	A	A1256	239.212	139.234	33.123	1.00155.72		A16S
ATOM	26511	C3*	A	A1256	237.600	139.623	31.240	1.00155.72		A16S
ATOM	26512	O3*	A	A1256	236.955	138.327	31.354	1.00155.72		A16S
ATOM	26513	P	U	A1257	237.204	137.358	32.627	1.00198.08		A16S
ATOM	26514	O1P	U	A1257	236.273	136.211	32.452	1.00198.79		A16S
ATOM	26515	O2P	U	A1257	237.166	138.137	33.895	1.00198.79		A16S
ATOM	26516	O5*	U	A1257	238.677	136.794	32.398	1.00198.08		A16S
ATOM	26517	C5*	U	A1257	239.156	136.544	31.067	1.00198.08		A16S
ATOM	26518	C4*	U	A1257	240.643	136.781	30.983	1.00198.08		A16S
ATOM	26519	O4*	U	A1257	240.993	137.977	31.731	1.00198.08		A16S
ATOM	26520	C1*	U	A1257	242.283	137.826	32.312	1.00198.08		A16S
ATOM	26521	N1	U	A1257	242.175	137.918	33.778	1.00198.79		A16S
ATOM	26522	C6	U	A1257	241.071	137.436	34.455	1.00198.79		A16S
ATOM	26523	C2	U	A1257	243.235	138.495	34.469	1.00198.79		A16S
ATOM	26524	O2	U	A1257	244.233	138.940	33.916	1.00198.79		A16S
ATOM	26525	N3	U	A1257	243.084	138.527	35.835	1.00198.79		A16S
ATOM	26526	C4	U	A1257	242.010	138.055	36.568	1.00198.79		A16S
ATOM	26527	O4	U	A1257	242.031	138.140	37.796	1.00198.79		A16S
ATOM	26528	C5	U	A1257	240.958	137.483	35.786	1.00198.79		A16S
ATOM	26529	C2*	U	A1257	242.833	136.471	31.874	1.00198.08		A16S
ATOM	26530	O2*	U	A1257	243.702	136.709	30.786	1.00198.08		A16S
ATOM	26531	C3*	U	A1257	241.543	135.706	31.566	1.00198.08		A16S
ATOM	26532	O3*	U	A1257	241.622	134.563	30.706	1.00198.08		A16S
ATOM	26533	P	G	A1258	242.506	134.602	29.362	1.00148.85		A16S
ATOM	26534	O1P	G	A1258	242.043	133.427	28.560	1.00144.46		A16S
ATOM	26535	O2P	G	A1258	243.958	134.724	29.701	1.00144.46		A16S
ATOM	26536	O5*	G	A1258	242.007	135.930	28.626	1.00148.85		A16S
ATOM	26537	C5*	G	A1258	240.731	135.956	27.957	1.00148.85		A16S
ATOM	26538	C4*	G	A1258	240.658	137.114	26.995	1.00148.85		A16S
ATOM	26539	O4*	G	A1258	240.427	138.351	27.713	1.00148.85		A16S
ATOM	26540	C1*	G	A1258	240.995	139.431	26.986	1.00148.85		A16S
ATOM	26541	N9	G	A1258	241.965	140.131	27.825	1.00144.46		A16S
ATOM	26542	C4	G	A1258	242.351	141.449	27.692	1.00144.46		A16S
ATOM	26543	N3	G	A1258	241.869	142.332	26.788	1.00144.46		A16S
ATOM	26544	C2	G	A1258	242.450	143.515	26.887	1.00144.46		A16S
ATOM	26545	N2	G	A1258	242.088	144.511	26.063	1.00144.46		A16S
ATOM	26546	N1	G	A1258	243.427	143.814	27.800	1.00144.46		A16S
ATOM	26547	C6	G	A1258	243.940	142.928	28.743	1.00144.46		A16S
ATOM	26548	O6	G	A1258	244.830	143.307	29.522	1.00144.46		A16S
ATOM	26549	C5	G	A1258	243.322	141.645	28.649	1.00144.46		A16S
ATOM	26550	N7	G	A1258	243.530	140.483	29.385	1.00144.46		A16S
ATOM	26551	C8	G	A1258	242.701	139.616	28.868	1.00144.46		A16S
ATOM	26552	C2*	G	A1258	241.673	138.851	25.745	1.00148.85		A16S
ATOM	26553	O2*	G	A1258	240.819	138.970	24.629	1.00148.85		A16S
ATOM	26554	C3*	G	A1258	241.894	137.405	26.162	1.00148.85		A16S
ATOM	26555	O3*	G	A1258	242.047	136.558	25.040	1.00148.85		A16S
ATOM	26556	P	C	A1259	243.462	136.519	24.275	1.00110.22		A16S
ATOM	26557	O1P	C	A1259	243.414	135.375	23.331	1.00128.20		A16S
ATOM	26558	O2P	C	A1259	244.561	136.600	25.273	1.00128.20		A16S



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ATOM	26559	O5* C	A1259	243.461	137.861	23.422	1.00110.22	A16S
ATOM	26560	C5* C	A1259	242.524	138.020	22.356	1.00110.22	A16S
ATOM	26561	C4* C	A1259	242.741	139.327	21.653	1.00110.22	A16S
ATOM	26562	O4* C	A1259	242.430	140.417	22.552	1.00110.22	A16S
ATOM	26563	C1* C	A1259	243.299	141.507	22.299	1.00110.22	A16S
ATOM	26564	N1 C	A1259	244.062	141.781	23.532	1.00128.20	A16S
ATOM	26565	C6 C	A1259	244.473	140.758	24.345	1.00128.20	A16S
ATOM	26566	C2 C	A1259	244.371	143.111	23.858	1.00128.20	A16S
ATOM	26567	O2 C	A1259	243.981	144.026	23.112	1.00128.20	A16S
ATOM	26568	N3 C	A1259	245.086	143.363	24.975	1.00128.20	A16S
ATOM	26569	C4 C	A1259	245.487	142.355	25.752	1.00128.20	A16S
ATOM	26570	N4 C	A1259	246.198	142.653	26.833	1.00128.20	A16S
ATOM	26571	C5 C	A1259	245.180	140.999	25.451	1.00128.20	A16S
ATOM	26572	C2* C	A1259	244.202	141.119	21.124	1.00110.22	A16S
ATOM	26573	O2* C	A1259	243.679	141.646	19.917	1.00110.22	A16S
ATOM	26574	C3* C	A1259	244.160	139.597	21.200	1.00110.22	A16S
ATOM	26575	O3* C	A1259	244.454	138.971	19.965	1.00110.22	A16S
ATOM	26576	P C	A1260	245.950	138.490	19.677	1.00125.79	A16S
ATOM	26577	O1P C	A1260	246.061	138.148	18.239	1.00120.12	A16S
ATOM	26578	O2P C	A1260	246.310	137.479	20.711	1.00120.12	A16S
ATOM	26579	O5* C	A1260	246.791	139.814	19.928	1.00125.79	A16S
ATOM	26580	C5* C	A1260	248.198	139.760	20.178	1.00125.79	A16S
ATOM	26581	C4* C	A1260	248.655	141.036	20.837	1.00125.79	A16S
ATOM	26582	O4* C	A1260	247.934	141.227	22.084	1.00125.79	A16S
ATOM	26583	C1* C	A1260	248.805	141.767	23.066	1.00125.79	A16S
ATOM	26584	N1 C	A1260	248.907	140.798	24.188	1.00120.12	A16S
ATOM	26585	C6 C	A1260	248.703	139.459	23.975	1.00120.12	A16S
ATOM	26586	C2 C	A1260	249.215	141.267	25.486	1.00120.12	A16S
ATOM	26587	O2 C	A1260	249.408	142.480	25.667	1.00120.12	A16S
ATOM	26588	N3 C	A1260	249.294	140.379	26.508	1.00120.12	A16S
ATOM	26589	C4 C	A1260	249.080	139.078	26.284	1.00120.12	A16S
ATOM	26590	N4 C	A1260	249.153	138.242	27.326	1.00120.12	A16S
ATOM	26591	C5 C	A1260	248.777	138.575	24.982	1.00120.12	A16S
ATOM	26592	C2* C	A1260	250.139	142.066	22.374	1.00125.79	A16S
ATOM	26593	O2* C	A1260	250.119	143.401	21.907	1.00125.79	A16S
ATOM	26594	C3* C	A1260	250.122	141.063	21.225	1.00125.79	A16S
ATOM	26595	O3* C	A1260	250.912	141.454	20.110	1.00125.79	A16S
ATOM	26596	P A	A1261	252.500	141.625	20.269	1.00112.86	A16S
ATOM	26597	O1P A	A1261	253.129	141.081	19.043	1.00142.08	A16S
ATOM	26598	O2P A	A1261	252.902	141.089	21.594	1.00142.08	A16S
ATOM	26599	O5* A	A1261	252.687	143.210	20.252	1.00112.86	A16S
ATOM	26600	C5* A	A1261	251.892	144.026	19.356	1.00112.86	A16S
ATOM	26601	C4* A	A1261	252.117	145.507	19.602	1.00112.86	A16S
ATOM	26602	O4* A	A1261	251.631	145.883	20.916	1.00112.86	A16S
ATOM	26603	C1* A	A1261	252.443	146.921	21.447	1.00112.86	A16S
ATOM	26604	N9 A	A1261	253.058	146.439	22.690	1.00142.08	A16S
ATOM	26605	C4 A	A1261	253.932	147.138	23.489	1.00142.08	A16S
ATOM	26606	N3 A	A1261	254.379	148.393	23.308	1.00142.08	A16S
ATOM	26607	C2 A	A1261	255.223	148.733	24.278	1.00142.08	A16S
ATOM	26608	N1 A	A1261	255.642	148.015	25.330	1.00142.08	A16S
ATOM	26609	C6 A	A1261	255.172	146.757	25.481	1.00142.08	A16S
ATOM	26610	N6 A	A1261	255.590	146.039	26.526	1.00142.08	A16S
ATOM	26611	C5 A	A1261	254.267	146.279	24.521	1.00142.08	A16S
ATOM	26612	N7 A	A1261	253.608	145.068	24.387	1.00142.08	A16S
ATOM	26613	C8 A	A1261	252.904	145.214	23.291	1.00142.08	A16S
ATOM	26614	C2* A	A1261	253.485	147.290	20.386	1.00112.86	A16S
ATOM	26615	O2* A	A1261	253.051	148.433	19.667	1.00112.86	A16S
ATOM	26616	C3* A	A1261	253.552	146.007	19.559	1.00112.86	A16S
ATOM	26617	O3* A	A1261	253.993	146.243	18.227	1.00112.86	A16S
ATOM	26618	P C	A1262	255.375	145.594	17.722	1.00153.97	A16S
ATOM	26619	O1P C	A1262	255.747	146.303	16.467	1.00123.22	A16S
ATOM	26620	O2P C	A1262	255.243	144.113	17.724	1.00123.22	A16S
ATOM	26621	O5* C	A1262	256.421	145.966	18.865	1.00153.97	A16S
ATOM	26622	C5* C	A1262	256.900	147.317	19.029	1.00153.97	A16S
ATOM	26623	C4* C	A1262	257.814	147.409	20.230	1.00153.97	A16S
ATOM	26624	O4* C	A1262	257.049	147.203	21.444	1.00153.97	A16S
ATOM	26625	C1* C	A1262	257.849	146.531	22.400	1.00153.97	A16S
ATOM	26626	N1 C	A1262	257.159	145.302	22.829	1.00123.22	A16S
ATOM	26627	C6 C	A1262	256.219	144.704	22.034	1.00123.22	A16S
ATOM	26628	C2 C	A1262	257.474	144.754	24.089	1.00123.22	A16S
ATOM	26629	O2 C	A1262	258.355	145.292	24.783	1.00123.22	A16S
ATOM	26630	N3 C	A1262	256.818	143.653	24.513	1.00123.22	A16S
ATOM	26631	C4 C	A1262	255.890	143.090	23.738	1.00123.22	A16S
ATOM	26632	N4 C	A1262	255.250	142.017	24.213	1.00123.22	A16S
ATOM	26633	C5 C	A1262	255.569	143.608	22.443	1.00123.22	A16S
ATOM	26634	C2* C	A1262	259.227	146.283	21.787	1.00153.97	A16S
ATOM	26635	O2* C	A1262	260.116	147.282	22.242	1.00153.97	A16S



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ATOM	26636	C3*	C	A1262	258.927	146.373	20.294	1.00153.97	A16S
ATOM	26637	O3*	C	A1262	260.063	146.780	19.537	1.00153.97	A16S
ATOM	26638	P	C	A1263	261.167	145.691	19.110	1.00125.88	A16S
ATOM	26639	O1P	C	A1263	262.158	146.411	18.266	1.00150.19	A16S
ATOM	26640	O2P	C	A1263	260.484	144.484	18.574	1.00150.19	A16S
ATOM	26641	O5*	C	A1263	261.856	145.284	20.490	1.00125.88	A16S
ATOM	26642	C5*	C	A1263	262.660	146.232	21.225	1.00125.88	A16S
ATOM	26643	C4*	C	A1263	263.185	145.606	22.495	1.00125.88	A16S
ATOM	26644	O4*	C	A1263	262.106	145.391	23.436	1.00125.88	A16S
ATOM	26645	C1*	C	A1263	262.328	144.186	24.145	1.00125.88	A16S
ATOM	26646	N1	C	A1263	261.195	143.287	23.894	1.00150.19	A16S
ATOM	26647	C6	C	A1263	260.422	143.423	22.774	1.00150.19	A16S
ATOM	26648	C2	C	A1263	260.913	142.286	24.829	1.00150.19	A16S
ATOM	26649	O2	C	A1263	261.647	142.164	25.823	1.00150.19	A16S
ATOM	26650	N3	C	A1263	259.855	141.476	24.625	1.00150.19	A16S
ATOM	26651	C4	C	A1263	259.098	141.629	23.539	1.00150.19	A16S
ATOM	26652	N4	C	A1263	258.053	140.815	23.392	1.00150.19	A16S
ATOM	26653	C5	C	A1263	259.375	142.625	22.558	1.00150.19	A16S
ATOM	26654	C2*	C	A1263	263.657	143.595	23.679	1.00125.88	A16S
ATOM	26655	O2*	C	A1263	264.678	143.957	24.581	1.00125.88	A16S
ATOM	26656	C3*	C	A1263	263.812	144.239	22.311	1.00125.88	A16S
ATOM	26657	O3*	C	A1263	265.161	144.352	21.912	1.00125.88	A16S
ATOM	26658	P	C	A1264	265.763	143.277	20.892	1.00106.99	A16S
ATOM	26659	O1P	C	A1264	267.072	143.799	20.416	1.00135.19	A16S
ATOM	26660	O2P	C	A1264	264.695	142.970	19.902	1.00135.19	A16S
ATOM	26661	O5*	C	A1264	266.021	141.995	21.815	1.00106.99	A16S
ATOM	26662	C5*	C	A1264	267.048	142.017	22.829	1.00106.99	A16S
ATOM	26663	C4*	C	A1264	266.873	140.876	23.803	1.00106.99	A16S
ATOM	26664	O4*	C	A1264	265.587	140.986	24.454	1.00106.99	A16S
ATOM	26665	C1*	C	A1264	265.100	139.693	24.766	1.00106.99	A16S
ATOM	26666	N1	C	A1264	263.758	139.531	24.172	1.00135.19	A16S
ATOM	26667	C6	C	A1264	263.355	140.305	23.117	1.00135.19	A16S
ATOM	26668	C2	C	A1264	262.897	138.549	24.700	1.00135.19	A16S
ATOM	26669	O2	C	A1264	263.271	137.872	25.678	1.00135.19	A16S
ATOM	26670	N3	C	A1264	261.685	138.366	24.131	1.00135.19	A16S
ATOM	26671	C4	C	A1264	261.316	139.111	23.086	1.00135.19	A16S
ATOM	26672	N4	C	A1264	260.126	138.867	22.537	1.00135.19	A16S
ATOM	26673	C5	C	A1264	262.156	140.131	22.550	1.00135.19	A16S
ATOM	26674	C2*	C	A1264	266.117	138.662	24.265	1.00106.99	A16S
ATOM	26675	O2*	C	A1264	266.878	138.176	25.352	1.00106.99	A16S
ATOM	26676	C3*	C	A1264	266.912	139.467	23.237	1.00106.99	A16S
ATOM	26677	O3*	C	A1264	268.259	139.012	23.134	1.00106.99	A16S
ATOM	26678	P	G	A1265	268.629	137.814	22.124	1.00114.85	A16S
ATOM	26679	O1P	G	A1265	270.106	137.623	22.184	1.00110.68	A16S
ATOM	26680	O2P	G	A1265	267.985	138.090	20.816	1.00110.68	A16S
ATOM	26681	O5*	G	A1265	267.936	136.535	22.777	1.00114.85	A16S
ATOM	26682	C5*	G	A1265	268.529	135.875	23.907	1.00114.85	A16S
ATOM	26683	C4*	G	A1265	267.823	134.572	24.184	1.00114.85	A16S
ATOM	26684	O4*	G	A1265	266.489	134.838	24.686	1.00114.85	A16S
ATOM	26685	C1*	G	A1265	265.590	133.846	24.207	1.00114.85	A16S
ATOM	26686	N9	G	A1265	264.564	134.509	23.399	1.00110.68	A16S
ATOM	26687	C4	G	A1265	263.368	133.970	22.975	1.00110.68	A16S
ATOM	26688	N3	G	A1265	262.923	132.721	23.231	1.00110.68	A16S
ATOM	26689	C2	G	A1265	261.741	132.497	22.686	1.00110.68	A16S
ATOM	26690	N2	G	A1265	261.163	131.299	22.831	1.00110.68	A16S
ATOM	26691	N1	G	A1265	261.043	133.433	21.955	1.00110.68	A16S
ATOM	26692	C6	G	A1265	261.482	134.728	21.680	1.00110.68	A16S
ATOM	26693	O6	G	A1265	260.776	135.502	21.009	1.00110.68	A16S
ATOM	26694	C5	G	A1265	262.753	134.973	22.252	1.00110.68	A16S
ATOM	26695	N7	G	A1265	263.543	136.111	22.215	1.00110.68	A16S
ATOM	26696	C8	G	A1265	264.603	135.793	22.907	1.00110.68	A16S
ATOM	26697	C2*	G	A1265	266.409	132.832	23.405	1.00114.85	A16S
ATOM	26698	O2*	G	A1265	266.787	131.748	24.231	1.00114.85	A16S
ATOM	26699	C3*	G	A1265	267.601	133.674	22.980	1.00114.85	A16S
ATOM	26700	O3*	G	A1265	268.730	132.884	22.669	1.00114.85	A16S
ATOM	26701	P	G	A1266	269.123	132.656	21.131	1.00155.71	A16S
ATOM	26702	O1P	G	A1266	270.422	131.937	21.132	1.00110.59	A16S
ATOM	26703	O2P	G	A1266	268.994	133.953	20.402	1.00110.59	A16S
ATOM	26704	O5*	G	A1266	267.995	131.670	20.589	1.00155.71	A16S
ATOM	26705	C5*	G	A1266	267.964	130.291	21.003	1.00155.71	A16S
ATOM	26706	C4*	G	A1266	266.687	129.617	20.544	1.00155.71	A16S
ATOM	26707	O4*	G	A1266	265.542	130.270	21.158	1.00155.71	A16S
ATOM	26708	C1*	G	A1266	264.426	130.201	20.284	1.00155.71	A16S
ATOM	26709	N9	G	A1266	264.056	131.553	19.868	1.00110.59	A16S
ATOM	26710	C4	G	A1266	262.830	131.925	19.382	1.00110.59	A16S
ATOM	26711	N3	G	A1266	261.758	131.117	19.254	1.00110.59	A16S
ATOM	26712	C2	G	A1266	260.729	131.744	18.715	1.00110.59	A16S



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ATOM	26713	N2	G	A1266	259.592	131.069	18.493	1.00110.59	A16S
ATOM	26714	N1	G	A1266	260.744	133.074	18.347	1.00110.59	A16S
ATOM	26715	C6	G	A1266	261.837	133.930	18.478	1.00110.59	A16S
ATOM	26716	O6	G	A1266	261.746	135.108	18.120	1.00110.59	A16S
ATOM	26717	C5	G	A1266	262.956	133.261	19.043	1.00110.59	A16S
ATOM	26718	N7	G	A1266	264.232	133.728	19.336	1.00110.59	A16S
ATOM	26719	C8	G	A1266	264.847	132.685	19.832	1.00110.59	A16S
ATOM	26720	C2*	G	A1266	264.859	129.397	19.061	1.00155.71	A16S
ATOM	26721	O2*	G	A1266	264.537	128.033	19.253	1.00155.71	A16S
ATOM	26722	C3*	G	A1266	266.360	129.645	19.056	1.00155.71	A16S
ATOM	26723	O3*	G	A1266	267.049	128.669	18.293	1.00155.71	A16S
ATOM	26724	P	C	A1267	267.864	129.123	16.978	1.00123.69	A16S
ATOM	26725	O1P	C	A1267	268.466	127.878	16.419	1.00 95.22	A16S
ATOM	26726	O2P	C	A1267	268.733	130.281	17.324	1.00 95.22	A16S
ATOM	26727	O5*	C	A1267	266.769	129.680	15.960	1.00123.69	A16S
ATOM	26728	C5*	C	A1267	267.135	130.644	14.938	1.00123.69	A16S
ATOM	26729	C4*	C	A1267	266.281	130.461	13.699	1.00123.69	A16S
ATOM	26730	O4*	C	A1267	266.508	129.140	13.143	1.00123.69	A16S
ATOM	26731	C1*	C	A1267	265.296	128.626	12.625	1.00123.69	A16S
ATOM	26732	N1	C	A1267	264.989	127.370	13.336	1.00 95.22	A16S
ATOM	26733	C6	C	A1267	265.338	127.198	14.647	1.00 95.22	A16S
ATOM	26734	C2	C	A1267	264.352	126.338	12.638	1.00 95.22	A16S
ATOM	26735	O2	C	A1267	264.004	126.532	11.459	1.00 95.22	A16S
ATOM	26736	N3	C	A1267	264.124	125.158	13.265	1.00 95.22	A16S
ATOM	26737	C4	C	A1267	264.491	124.996	14.535	1.00 95.22	A16S
ATOM	26738	N4	C	A1267	264.265	123.812	15.103	1.00 95.22	A16S
ATOM	26739	C5	C	A1267	265.111	126.039	15.278	1.00 95.22	A16S
ATOM	26740	C2*	C	A1267	264.228	129.710	12.761	1.00123.69	A16S
ATOM	26741	O2*	C	A1267	264.185	130.448	11.558	1.00123.69	A16S
ATOM	26742	C3*	C	A1267	264.777	130.545	13.909	1.00123.69	A16S
ATOM	26743	O3*	C	A1267	264.338	131.893	13.832	1.00123.69	A16S
ATOM	26744	P	A	A1268	263.467	132.511	15.030	1.00116.37	A16S
ATOM	26745	O1P	A	A1268	263.256	133.951	14.724	1.00 93.02	A16S
ATOM	26746	O2P	A	A1268	264.103	132.115	16.312	1.00 93.02	A16S
ATOM	26747	O5*	A	A1268	262.067	131.755	14.928	1.00116.37	A16S
ATOM	26748	C5*	A	A1268	261.195	131.955	13.790	1.00116.37	A16S
ATOM	26749	C4*	A	A1268	260.169	130.846	13.707	1.00116.37	A16S
ATOM	26750	O4*	A	A1268	260.856	129.578	13.633	1.00116.37	A16S
ATOM	26751	C1*	A	A1268	260.145	128.604	14.364	1.00116.37	A16S
ATOM	26752	N9	A	A1268	261.049	128.067	15.374	1.00 93.02	A16S
ATOM	26753	C4	A	A1268	261.075	126.774	15.832	1.00 93.02	A16S
ATOM	26754	N3	A	A1268	260.277	125.763	15.460	1.00 93.02	A16S
ATOM	26755	C2	A	A1268	260.597	124.649	16.108	1.00 93.02	A16S
ATOM	26756	N1	A	A1268	261.551	124.442	17.017	1.00 93.02	A16S
ATOM	26757	C6	A	A1268	262.339	125.479	17.370	1.00 93.02	A16S
ATOM	26758	N6	A	A1268	263.296	125.272	18.279	1.00 93.02	A16S
ATOM	26759	C5	A	A1268	262.101	126.721	16.752	1.00 93.02	A16S
ATOM	26760	N7	A	A1268	262.710	127.962	16.878	1.00 93.02	A16S
ATOM	26761	C8	A	A1268	262.048	128.723	16.044	1.00 93.02	A16S
ATOM	26762	C2*	A	A1268	258.866	129.246	14.904	1.00116.37	A16S
ATOM	26763	O2*	A	A1268	257.813	128.921	14.019	1.00116.37	A16S
ATOM	26764	C3*	A	A1268	259.225	130.729	14.892	1.00116.37	A16S
ATOM	26765	O3*	A	A1268	258.092	131.547	14.629	1.00116.37	A16S
ATOM	26766	P	A	A1269	257.225	132.136	15.843	1.00 87.57	A16S
ATOM	26767	O1P	A	A1269	256.417	133.273	15.296	1.00102.73	A16S
ATOM	26768	O2P	A	A1269	258.147	132.378	16.971	1.00102.73	A16S
ATOM	26769	O5*	A	A1269	256.266	130.927	16.253	1.00 87.57	A16S
ATOM	26770	C5*	A	A1269	255.267	130.421	15.336	1.00 87.57	A16S
ATOM	26771	C4*	A	A1269	254.727	129.097	15.824	1.00 87.57	A16S
ATOM	26772	O4*	A	A1269	255.791	128.118	15.818	1.00 87.57	A16S
ATOM	26773	C1*	A	A1269	255.669	127.271	16.943	1.00 87.57	A16S
ATOM	26774	N9	A	A1269	256.929	127.324	17.687	1.00102.73	A16S
ATOM	26775	C4	A	A1269	257.602	126.257	18.236	1.00102.73	A16S
ATOM	26776	N3	A	A1269	257.238	124.963	18.218	1.00102.73	A16S
ATOM	26777	C2	A	A1269	258.148	124.211	18.837	1.00102.73	A16S
ATOM	26778	N1	A	A1269	259.291	124.577	19.434	1.00102.73	A16S
ATOM	26779	C6	A	A1269	259.624	125.885	19.438	1.00102.73	A16S
ATOM	26780	N6	A	A1269	260.760	126.255	20.034	1.00102.73	A16S
ATOM	26781	C5	A	A1269	258.745	126.787	18.807	1.00102.73	A16S
ATOM	26782	N7	A	A1269	258.790	128.163	18.630	1.00102.73	A16S
ATOM	26783	C8	A	A1269	257.693	128.433	17.967	1.00102.73	A16S
ATOM	26784	C2*	A	A1269	254.421	127.689	17.732	1.00 87.57	A16S
ATOM	26785	O2*	A	A1269	253.358	126.798	17.454	1.00 87.57	A16S
ATOM	26786	C3*	A	A1269	254.188	129.119	17.243	1.00 87.57	A16S
ATOM	26787	O3*	A	A1269	252.796	129.430	17.202	1.00 87.57	A16S
ATOM	26788	P	C	A1270	252.199	130.618	18.107	1.00114.40	A16S
ATOM	26789	O1P	C	A1270	250.765	130.270	18.293	1.00 89.31	A16S



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ATOM	26790	O2P	C	A1270	252.563	131.932	17.496	1.00	89.31	A16S
ATOM	26791	O5*	C	A1270	252.940	130.465	19.514	1.00	114.40	A16S
ATOM	26792	C5*	C	A1270	252.786	129.266	20.301	1.00	114.40	A16S
ATOM	26793	C4*	C	A1270	254.016	129.017	21.153	1.00	114.40	A16S
ATOM	26794	O4*	C	A1270	255.203	129.222	20.335	1.00	114.40	A16S
ATOM	26795	C1*	C	A1270	256.270	129.700	21.142	1.00	114.40	A16S
ATOM	26796	N1	C	A1270	256.629	131.067	20.706	1.00	89.31	A16S
ATOM	26797	C6	C	A1270	255.693	131.895	20.145	1.00	89.31	A16S
ATOM	26798	C2	C	A1270	257.950	131.520	20.895	1.00	89.31	A16S
ATOM	26799	O2	C	A1270	258.790	130.751	21.394	1.00	89.31	A16S
ATOM	26800	N3	C	A1270	258.277	132.788	20.523	1.00	89.31	A16S
ATOM	26801	C4	C	A1270	257.350	133.585	19.978	1.00	89.31	A16S
ATOM	26802	N4	C	A1270	257.715	134.825	19.615	1.00	89.31	A16S
ATOM	26803	C5	C	A1270	256.006	133.149	19.775	1.00	89.31	A16S
ATOM	26804	C2*	C	A1270	255.764	129.719	22.580	1.00	114.40	A16S
ATOM	26805	O2*	C	A1270	256.069	128.473	23.184	1.00	114.40	A16S
ATOM	26806	C3*	C	A1270	254.267	129.907	22.369	1.00	114.40	A16S
ATOM	26807	O3*	C	A1270	253.525	129.539	23.537	1.00	114.40	A16S
ATOM	26808	P	G	A1271	253.254	130.639	24.694	1.00	126.39	A16S
ATOM	26809	O1P	G	A1271	252.244	130.048	25.609	1.00	117.96	A16S
ATOM	26810	O2P	G	A1271	253.004	131.977	24.086	1.00	117.96	A16S
ATOM	26811	O5*	G	A1271	254.640	130.737	25.475	1.00	126.39	A16S
ATOM	26812	C5*	G	A1271	255.210	129.583	26.125	1.00	126.39	A16S
ATOM	26813	C4*	G	A1271	256.597	129.895	26.649	1.00	126.39	A16S
ATOM	26814	O4*	G	A1271	257.491	130.185	25.541	1.00	126.39	A16S
ATOM	26815	C1*	G	A1271	258.428	131.182	25.923	1.00	126.39	A16S
ATOM	26816	N9	G	A1271	258.195	132.375	25.111	1.00	117.96	A16S
ATOM	26817	C4	G	A1271	259.042	133.453	24.970	1.00	117.96	A16S
ATOM	26818	N3	G	A1271	260.251	133.601	25.560	1.00	117.96	A16S
ATOM	26819	C2	G	A1271	260.818	134.762	25.243	1.00	117.96	A16S
ATOM	26820	N2	G	A1271	262.019	135.090	25.759	1.00	117.96	A16S
ATOM	26821	N1	G	A1271	260.250	135.690	24.402	1.00	117.96	A16S
ATOM	26822	C6	G	A1271	259.012	135.556	23.780	1.00	117.96	A16S
ATOM	26823	O6	G	A1271	258.598	136.451	23.033	1.00	117.96	A16S
ATOM	26824	C5	G	A1271	258.384	134.326	24.124	1.00	117.96	A16S
ATOM	26825	N7	G	A1271	257.153	133.811	23.743	1.00	117.96	A16S
ATOM	26826	C8	G	A1271	257.085	132.655	24.347	1.00	117.96	A16S
ATOM	26827	C2*	G	A1271	258.195	131.473	27.400	1.00	126.39	A16S
ATOM	26828	O2*	G	A1271	259.033	130.627	28.162	1.00	126.39	A16S
ATOM	26829	C3*	G	A1271	256.723	131.114	27.547	1.00	126.39	A16S
ATOM	26830	O3*	G	A1271	256.359	130.853	28.893	1.00	126.39	A16S
ATOM	26831	P	G	A1272	255.819	132.060	29.812	1.00	122.85	A16S
ATOM	26832	O1P	G	A1272	255.380	131.420	31.082	1.00	109.44	A16S
ATOM	26833	O2P	G	A1272	254.856	132.898	29.035	1.00	109.44	A16S
ATOM	26834	O5*	G	A1272	257.112	132.967	30.067	1.00	122.85	A16S
ATOM	26835	C5*	G	A1272	258.123	132.598	31.043	1.00	122.85	A16S
ATOM	26836	C4*	G	A1272	259.078	133.754	31.281	1.00	122.85	A16S
ATOM	26837	O4*	G	A1272	259.831	134.021	30.071	1.00	122.85	A16S
ATOM	26838	C1*	G	A1272	260.024	135.416	29.921	1.00	122.85	A16S
ATOM	26839	N9	G	A1272	259.347	135.832	28.699	1.00	109.44	A16S
ATOM	26840	C4	G	A1272	259.628	136.938	27.933	1.00	109.44	A16S
ATOM	26841	N3	G	A1272	260.609	137.836	28.162	1.00	109.44	A16S
ATOM	26842	C2	G	A1272	260.621	138.795	27.249	1.00	109.44	A16S
ATOM	26843	N2	G	A1272	261.541	139.767	27.305	1.00	109.44	A16S
ATOM	26844	N1	G	A1272	259.734	138.871	26.206	1.00	109.44	A16S
ATOM	26845	C6	G	A1272	258.715	137.962	25.956	1.00	109.44	A16S
ATOM	26846	O6	G	A1272	257.962	138.131	24.991	1.00	109.44	A16S
ATOM	26847	C5	G	A1272	258.698	136.923	26.916	1.00	109.44	A16S
ATOM	26848	N7	G	A1272	257.860	135.824	27.030	1.00	109.44	A16S
ATOM	26849	C8	G	A1272	258.283	135.205	28.097	1.00	109.44	A16S
ATOM	26850	C2*	G	A1272	259.437	136.106	31.153	1.00	122.85	A16S
ATOM	26851	O2*	G	A1272	260.447	136.335	32.105	1.00	122.85	A16S
ATOM	26852	C3*	G	A1272	258.422	135.080	31.633	1.00	122.85	A16S
ATOM	26853	O3*	G	A1272	258.187	135.193	33.027	1.00	122.85	A16S
ATOM	26854	P	G	A1273	257.134	136.277	33.569	1.00	135.93	A16S
ATOM	26855	O1P	G	A1273	257.196	136.188	35.050	1.00	133.55	A16S
ATOM	26856	O2P	G	A1273	255.829	136.107	32.878	1.00	133.55	A16S
ATOM	26857	O5*	G	A1273	257.743	137.673	33.106	1.00	135.93	A16S
ATOM	26858	C5*	G	A1273	258.919	138.200	33.736	1.00	135.93	A16S
ATOM	26859	C4*	G	A1273	259.392	139.442	33.022	1.00	135.93	A16S
ATOM	26860	O4*	G	A1273	259.723	139.114	31.648	1.00	135.93	A16S
ATOM	26861	C1*	G	A1273	259.506	140.250	30.828	1.00	135.93	A16S
ATOM	26862	N9	G	A1273	258.566	139.908	29.767	1.00	133.55	A16S
ATOM	26863	C4	G	A1273	258.280	140.690	28.675	1.00	133.55	A16S
ATOM	26864	N3	G	A1273	258.843	141.886	28.391	1.00	133.55	A16S
ATOM	26865	C2	G	A1273	258.353	142.410	27.282	1.00	133.55	A16S
ATOM	26866	N2	G	A1273	258.806	143.594	26.852	1.00	133.55	A16S



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ATOM	26867	N1	G	A1273	257.384	141.812	26.513	1.00133.55	A16S
ATOM	26868	C6	G	A1273	256.790	140.582	26.785	1.00133.55	A16S
ATOM	26869	O6	G	A1273	255.923	140.132	26.022	1.00133.55	A16S
ATOM	26870	C5	G	A1273	257.311	140.005	27.977	1.00133.55	A16S
ATOM	26871	N7	G	A1273	257.005	138.805	28.608	1.00133.55	A16S
ATOM	26872	C8	G	A1273	257.776	138.788	29.662	1.00133.55	A16S
ATOM	26873	C2*	G	A1273	258.945	141.371	31.707	1.00135.93	A16S
ATOM	26874	O2*	G	A1273	259.967	142.290	32.033	1.00135.93	A16S
ATOM	26875	C3*	G	A1273	258.404	140.593	32.902	1.00135.93	A16S
ATOM	26876	O3*	G	A1273	258.357	141.404	34.071	1.00135.93	A16S
ATOM	26877	P	G	A1274	256.951	142.024	34.553	1.00135.40	A16S
ATOM	26878	O1P	G	A1274	257.201	142.714	35.845	1.00147.26	A16S
ATOM	26879	O2P	G	A1274	255.920	140.948	34.483	1.00147.26	A16S
ATOM	26880	O5*	G	A1274	256.604	143.129	33.455	1.00135.40	A16S
ATOM	26881	C5*	G	A1274	257.359	144.359	33.358	1.00135.40	A16S
ATOM	26882	C4*	G	A1274	257.015	145.077	32.074	1.00135.40	A16S
ATOM	26883	O4*	G	A1274	257.289	144.174	30.970	1.00135.40	A16S
ATOM	26884	C1*	G	A1274	256.272	144.286	29.983	1.00135.40	A16S
ATOM	26885	N9	G	A1274	255.571	142.999	29.902	1.00147.26	A16S
ATOM	26886	C4	G	A1274	254.588	142.635	28.996	1.00147.26	A16S
ATOM	26887	N3	G	A1274	254.092	143.405	28.001	1.00147.26	A16S
ATOM	26888	C2	G	A1274	253.150	142.778	27.314	1.00147.26	A16S
ATOM	26889	N2	G	A1274	252.545	143.396	26.296	1.00147.26	A16S
ATOM	26890	N1	G	A1274	252.729	141.500	27.578	1.00147.26	A16S
ATOM	26891	C6	G	A1274	253.223	140.688	28.593	1.00147.26	A16S
ATOM	26892	O6	G	A1274	252.771	139.550	28.744	1.00147.26	A16S
ATOM	26893	C5	G	A1274	254.232	141.344	29.341	1.00147.26	A16S
ATOM	26894	N7	G	A1274	254.974	140.900	30.427	1.00147.26	A16S
ATOM	26895	C8	G	A1274	255.752	141.907	30.724	1.00147.26	A16S
ATOM	26896	C2*	G	A1274	255.365	145.450	30.396	1.00135.40	A16S
ATOM	26897	O2*	G	A1274	255.802	146.653	29.788	1.00135.40	A16S
ATOM	26898	C3*	G	A1274	255.547	145.459	31.909	1.00135.40	A16S
ATOM	26899	O3*	G	A1274	255.232	146.726	32.499	1.00135.40	A16S
ATOM	26900	P	A	A1275	253.690	147.212	32.592	1.00120.01	A16S
ATOM	26901	O1P	A	A1275	253.517	148.002	33.840	1.00138.74	A16S
ATOM	26902	O2P	A	A1275	252.792	146.057	32.331	1.00138.74	A16S
ATOM	26903	O5*	A	A1275	253.547	148.219	31.372	1.00120.01	A16S
ATOM	26904	C5*	A	A1275	254.445	149.320	31.240	1.00120.01	A16S
ATOM	26905	C4*	A	A1275	254.149	150.076	29.980	1.00120.01	A16S
ATOM	26906	O4*	A	A1275	254.506	149.262	28.834	1.00120.01	A16S
ATOM	26907	C1*	A	A1275	253.584	149.494	27.777	1.00120.01	A16S
ATOM	26908	N9	A	A1275	252.866	148.243	27.495	1.00138.74	A16S
ATOM	26909	C4	A	A1275	252.066	147.992	26.401	1.00138.74	A16S
ATOM	26910	N3	A	A1275	251.814	148.812	25.364	1.00138.74	A16S
ATOM	26911	C2	A	A1275	250.975	148.238	24.506	1.00138.74	A16S
ATOM	26912	N1	A	A1275	250.399	147.032	24.562	1.00138.74	A16S
ATOM	26913	C6	A	A1275	250.669	146.236	25.620	1.00138.74	A16S
ATOM	26914	N6	A	A1275	250.083	145.043	25.691	1.00138.74	A16S
ATOM	26915	C5	A	A1275	251.552	146.721	26.594	1.00138.74	A16S
ATOM	26916	N7	A	A1275	252.036	146.165	27.771	1.00138.74	A16S
ATOM	26917	C8	A	A1275	252.813	147.100	28.264	1.00138.74	A16S
ATOM	26918	C2*	A	A1275	252.622	150.586	28.249	1.00120.01	A16S
ATOM	26919	O2*	A	A1275	253.089	151.851	27.820	1.00120.01	A16S
ATOM	26920	C3*	A	A1275	252.685	150.410	29.760	1.00120.01	A16S
ATOM	26921	O3*	A	A1275	252.260	151.553	30.486	1.00120.01	A16S
ATOM	26922	P	G	A1276	250.779	151.584	31.114	1.00148.75	A16S
ATOM	26923	O1P	G	A1276	250.674	152.793	31.972	1.00122.07	A16S
ATOM	26924	O2P	G	A1276	250.501	150.241	31.702	1.00122.07	A16S
ATOM	26925	O5*	G	A1276	249.838	151.814	29.843	1.00148.75	A16S
ATOM	26926	C5*	G	A1276	249.992	152.992	29.003	1.00148.75	A16S
ATOM	26927	C4*	G	A1276	249.214	152.843	27.702	1.00148.75	A16S
ATOM	26928	O4*	G	A1276	249.754	151.734	26.929	1.00148.75	A16S
ATOM	26929	C1*	G	A1276	248.702	151.052	26.259	1.00148.75	A16S
ATOM	26930	N9	G	A1276	248.575	149.719	26.850	1.00122.07	A16S
ATOM	26931	C4	G	A1276	247.975	148.612	26.285	1.00122.07	A16S
ATOM	26932	N3	G	A1276	247.404	148.553	25.062	1.00122.07	A16S
ATOM	26933	C2	G	A1276	246.916	147.352	24.806	1.00122.07	A16S
ATOM	26934	N2	G	A1276	246.321	147.116	23.631	1.00122.07	A16S
ATOM	26935	N1	G	A1276	246.979	146.294	25.682	1.00122.07	A16S
ATOM	26936	C6	G	A1276	247.561	146.334	26.947	1.00122.07	A16S
ATOM	26937	O6	G	A1276	247.568	145.325	27.659	1.00122.07	A16S
ATOM	26938	C5	G	A1276	248.089	147.611	27.233	1.00122.07	A16S
ATOM	26939	N7	G	A1276	248.745	148.073	28.363	1.00122.07	A16S
ATOM	26940	C8	G	A1276	249.016	149.321	28.093	1.00122.07	A16S
ATOM	26941	C2*	G	A1276	247.428	151.865	26.481	1.00148.75	A16S
ATOM	26942	O2*	G	A1276	247.264	152.804	25.434	1.00148.75	A16S
ATOM	26943	C3*	G	A1276	247.727	152.530	27.817	1.00148.75	A16S



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ATOM	26944	O3*	G	A1276	246.912	153.674	28.038	1.00148.75	A16S
ATOM	26945	P	C	A1277	245.580	153.531	28.932	1.00198.29	A16S
ATOM	26946	O1P	C	A1277	245.007	154.889	29.099	1.00140.30	A16S
ATOM	26947	O2P	C	A1277	245.899	152.712	30.135	1.00140.30	A16S
ATOM	26948	O5*	C	A1277	244.584	152.682	28.021	1.00198.29	A16S
ATOM	26949	C5*	C	A1277	244.202	153.145	26.712	1.00198.29	A16S
ATOM	26950	C4*	C	A1277	243.294	152.140	26.040	1.00198.29	A16S
ATOM	26951	O4*	C	A1277	243.984	150.865	25.945	1.00198.29	A16S
ATOM	26952	C1*	C	A1277	243.046	149.809	26.037	1.00198.29	A16S
ATOM	26953	N1	C	A1277	243.408	148.937	27.173	1.00140.30	A16S
ATOM	26954	C6	C	A1277	243.384	149.406	28.461	1.00140.30	A16S
ATOM	26955	C2	C	A1277	243.764	147.602	26.914	1.00140.30	A16S
ATOM	26956	O2	C	A1277	243.784	147.195	25.740	1.00140.30	A16S
ATOM	26957	N3	C	A1277	244.074	146.788	27.952	1.00140.30	A16S
ATOM	26958	C4	C	A1277	244.033	147.254	29.203	1.00140.30	A16S
ATOM	26959	N4	C	A1277	244.335	146.410	30.191	1.00140.30	A16S
ATOM	26960	C5	C	A1277	243.681	148.606	29.496	1.00140.30	A16S
ATOM	26961	C2*	C	A1277	241.656	150.430	26.179	1.00198.29	A16S
ATOM	26962	O2*	C	A1277	241.066	150.500	24.898	1.00198.29	A16S
ATOM	26963	C3*	C	A1277	241.983	151.809	26.743	1.00198.29	A16S
ATOM	26964	O3*	C	A1277	240.952	152.755	26.450	1.00198.29	A16S
ATOM	26965	P	U	A1278	239.959	153.254	27.623	1.00155.40	A16S
ATOM	26966	O1P	U	A1278	239.043	154.277	27.047	1.00197.97	A16S
ATOM	26967	O2P	U	A1278	240.789	153.600	28.804	1.00197.97	A16S
ATOM	26968	O5*	U	A1278	239.092	151.972	28.013	1.00155.40	A16S
ATOM	26969	C5*	U	A1278	238.539	151.084	27.008	1.00155.40	A16S
ATOM	26970	C4*	U	A1278	237.712	150.001	27.668	1.00155.40	A16S
ATOM	26971	O4*	U	A1278	238.551	149.382	28.673	1.00155.40	A16S
ATOM	26972	C1*	U	A1278	237.948	149.497	29.944	1.00155.40	A16S
ATOM	26973	N1	U	A1278	238.650	150.582	30.664	1.00197.97	A16S
ATOM	26974	C6	U	A1278	237.961	151.505	31.430	1.00197.97	A16S
ATOM	26975	C2	U	A1278	240.054	150.662	30.549	1.00197.97	A16S
ATOM	26976	O2	U	A1278	240.729	149.872	29.896	1.00197.97	A16S
ATOM	26977	N3	U	A1278	240.634	151.706	31.230	1.00197.97	A16S
ATOM	26978	C4	U	A1278	239.994	152.658	32.003	1.00197.97	A16S
ATOM	26979	O4	U	A1278	240.661	153.540	32.555	1.00197.97	A16S
ATOM	26980	C5	U	A1278	238.569	152.509	32.081	1.00197.97	A16S
ATOM	26981	C2*	U	A1278	236.450	149.703	29.683	1.00155.40	A16S
ATOM	26982	O2*	U	A1278	235.814	148.450	29.515	1.00155.40	A16S
ATOM	26983	C3*	U	A1278	236.482	150.526	28.399	1.00155.40	A16S
ATOM	26984	O3*	U	A1278	235.316	150.314	27.606	1.00155.40	A16S
ATOM	26985	P	A	A1279	234.837	151.444	26.565	1.00149.19	A16S
ATOM	26986	O1P	A	A1279	233.535	150.991	26.014	1.00107.04	A16S
ATOM	26987	O2P	A	A1279	234.941	152.786	27.211	1.00107.04	A16S
ATOM	26988	O5*	A	A1279	235.902	151.361	25.385	1.00149.19	A16S
ATOM	26989	C5*	A	A1279	236.639	152.524	24.953	1.00149.19	A16S
ATOM	26990	C4*	A	A1279	237.536	152.154	23.801	1.00149.19	A16S
ATOM	26991	O4*	A	A1279	238.392	151.087	24.260	1.00149.19	A16S
ATOM	26992	C1*	A	A1279	238.581	150.149	23.233	1.00149.19	A16S
ATOM	26993	N9	A	A1279	238.443	148.802	23.791	1.00107.04	A16S
ATOM	26994	C4	A	A1279	237.327	148.006	23.873	1.00107.04	A16S
ATOM	26995	N3	A	A1279	236.085	148.292	23.445	1.00107.04	A16S
ATOM	26996	C2	A	A1279	235.259	147.277	23.697	1.00107.04	A16S
ATOM	26997	N1	A	A1279	235.517	146.098	24.283	1.00107.04	A16S
ATOM	26998	C6	A	A1279	236.781	145.845	24.698	1.00107.04	A16S
ATOM	26999	N6	A	A1279	237.052	144.669	25.276	1.00107.04	A16S
ATOM	27000	C5	A	A1279	237.743	146.839	24.492	1.00107.04	A16S
ATOM	27001	N7	A	A1279	239.093	146.897	24.796	1.00107.04	A16S
ATOM	27002	C8	A	A1279	239.460	148.073	24.360	1.00107.04	A16S
ATOM	27003	C2*	A	A1279	237.743	150.559	22.021	1.00149.19	A16S
ATOM	27004	O2*	A	A1279	238.620	151.119	21.073	1.00149.19	A16S
ATOM	27005	C3*	A	A1279	236.777	151.596	22.605	1.00149.19	A16S
ATOM	27006	O3*	A	A1279	236.602	152.609	21.602	1.00149.19	A16S
ATOM	27007	P	A	A1280	235.669	153.905	21.864	1.00102.93	A16S
ATOM	27008	O1P	A	A1280	235.795	154.353	23.273	1.00115.94	A16S
ATOM	27009	O2P	A	A1280	234.308	153.653	21.304	1.00115.94	A16S
ATOM	27010	O5*	A	A1280	236.408	155.008	20.973	1.00102.93	A16S
ATOM	27011	C5*	A	A1280	235.806	155.558	19.778	1.00102.93	A16S
ATOM	27012	C4*	A	A1280	236.495	155.028	18.536	1.00102.93	A16S
ATOM	27013	O4*	A	A1280	235.867	155.639	17.378	1.00102.93	A16S
ATOM	27014	C1*	A	A1280	236.841	156.268	16.577	1.00102.93	A16S
ATOM	27015	N9	A	A1280	236.265	157.498	16.045	1.00115.94	A16S
ATOM	27016	C4	A	A1280	235.939	157.721	14.733	1.00115.94	A16S
ATOM	27017	N3	A	A1280	236.101	156.876	13.703	1.00115.94	A16S
ATOM	27018	C2	A	A1280	235.659	157.425	12.575	1.00115.94	A16S
ATOM	27019	N1	A	A1280	235.111	158.634	12.376	1.00115.94	A16S
ATOM	27020	C6	A	A1280	234.960	159.458	13.434	1.00115.94	A16S



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ATOM	27021	N6	A	A1280	234.404	160.658	13.235	1.00115.94	A16S
ATOM	27022	C5	A	A1280	235.398	158.993	14.689	1.00115.94	A16S
ATOM	27023	N7	A	A1280	235.398	159.569	15.950	1.00115.94	A16S
ATOM	27024	C8	A	A1280	235.923	158.645	16.716	1.00115.94	A16S
ATOM	27025	C2*	A	A1280	238.052	156.504	17.469	1.00102.93	A16S
ATOM	27026	O2*	A	A1280	239.211	156.560	16.671	1.00102.93	A16S
ATOM	27027	C3*	A	A1280	237.995	155.292	18.396	1.00102.93	A16S
ATOM	27028	O3*	A	A1280	238.602	154.184	17.732	1.00102.93	A16S
ATOM	27029	P	U	A1281	239.864	153.439	18.391	1.00159.78	A16S
ATOM	27030	O1P	U	A1281	240.521	152.577	17.371	1.00115.35	A16S
ATOM	27031	O2P	U	A1281	239.446	152.857	19.686	1.00115.35	A16S
ATOM	27032	O5*	U	A1281	240.878	154.614	18.699	1.00159.78	A16S
ATOM	27033	C5*	U	A1281	241.744	154.524	19.820	1.00159.78	A16S
ATOM	27034	C4*	U	A1281	242.625	155.728	19.879	1.00159.78	A16S
ATOM	27035	O4*	U	A1281	241.804	156.921	19.822	1.00159.78	A16S
ATOM	27036	C1*	U	A1281	242.250	157.867	20.776	1.00159.78	A16S
ATOM	27037	N1	U	A1281	241.104	158.148	21.673	1.00115.35	A16S
ATOM	27038	C6	U	A1281	240.775	157.311	22.737	1.00115.35	A16S
ATOM	27039	C2	U	A1281	240.307	159.271	21.382	1.00115.35	A16S
ATOM	27040	O2	U	A1281	240.584	160.090	20.521	1.00115.35	A16S
ATOM	27041	N3	U	A1281	239.174	159.396	22.153	1.00115.35	A16S
ATOM	27042	C4	U	A1281	238.763	158.562	23.180	1.00115.35	A16S
ATOM	27043	O4	U	A1281	237.640	158.722	23.665	1.00115.35	A16S
ATOM	27044	C5	U	A1281	239.665	157.478	23.477	1.00115.35	A16S
ATOM	27045	C2*	U	A1281	243.566	157.330	21.372	1.00159.78	A16S
ATOM	27046	O2*	U	A1281	244.658	157.881	20.658	1.00159.78	A16S
ATOM	27047	C3*	U	A1281	243.417	155.823	21.163	1.00159.78	A16S
ATOM	27048	O3*	U	A1281	244.598	154.982	21.136	1.00159.78	A16S
ATOM	27049	P	C	A1282	245.662	155.049	19.904	1.00109.10	A16S
ATOM	27050	O1P	C	A1282	246.632	156.151	20.148	1.00136.24	A16S
ATOM	27051	O2P	C	A1282	244.967	154.976	18.594	1.00136.24	A16S
ATOM	27052	O5*	C	A1282	246.461	153.679	20.062	1.00109.10	A16S
ATOM	27053	C5*	C	A1282	247.501	153.547	21.044	1.00109.10	A16S
ATOM	27054	C4*	C	A1282	247.414	152.208	21.734	1.00109.10	A16S
ATOM	27055	O4*	C	A1282	246.214	152.147	22.546	1.00109.10	A16S
ATOM	27056	C1*	C	A1282	245.724	150.813	22.574	1.00109.10	A16S
ATOM	27057	N1	C	A1282	244.372	150.786	21.979	1.00136.24	A16S
ATOM	27058	C6	C	A1282	243.939	151.796	21.162	1.00136.24	A16S
ATOM	27059	C2	C	A1282	243.540	149.677	22.234	1.00136.24	A16S
ATOM	27060	O2	C	A1282	243.923	148.801	23.028	1.00136.24	A16S
ATOM	27061	N3	C	A1282	242.341	149.596	21.607	1.00136.24	A16S
ATOM	27062	C4	C	A1282	241.957	150.566	20.771	1.00136.24	A16S
ATOM	27063	N4	C	A1282	240.798	150.417	20.130	1.00136.24	A16S
ATOM	27064	C5	C	A1282	242.753	151.725	20.544	1.00136.24	A16S
ATOM	27065	C2*	C	A1282	246.686	149.952	21.753	1.00109.10	A16S
ATOM	27066	O2*	C	A1282	247.622	149.317	22.599	1.00109.10	A16S
ATOM	27067	C3*	C	A1282	247.316	150.989	20.833	1.00109.10	A16S
ATOM	27068	O3*	C	A1282	248.575	150.577	20.316	1.00109.10	A16S
ATOM	27069	P	G	A1283	248.643	149.864	18.875	1.00127.74	A16S
ATOM	27070	O1P	G	A1283	250.074	149.749	18.492	1.00 92.27	A16S
ATOM	27071	O2P	G	A1283	247.702	150.573	17.971	1.00 92.27	A16S
ATOM	27072	O5*	G	A1283	248.064	148.408	19.164	1.00127.74	A16S
ATOM	27073	C5*	G	A1283	248.628	147.591	20.203	1.00127.74	A16S
ATOM	27074	C4*	G	A1283	247.888	146.281	20.306	1.00127.74	A16S
ATOM	27075	O4*	G	A1283	246.586	146.474	20.927	1.00127.74	A16S
ATOM	27076	C1*	G	A1283	245.646	145.552	20.377	1.00127.74	A16S
ATOM	27077	N9	G	A1283	244.604	146.300	19.664	1.00 92.27	A16S
ATOM	27078	C4	G	A1283	243.353	145.832	19.276	1.00 92.27	A16S
ATOM	27079	N3	G	A1283	242.850	144.598	19.510	1.00 92.27	A16S
ATOM	27080	C2	G	A1283	241.629	144.462	19.014	1.00 92.27	A16S
ATOM	27081	N2	G	A1283	240.980	143.305	19.164	1.00 92.27	A16S
ATOM	27082	N1	G	A1283	240.954	145.450	18.335	1.00 92.27	A16S
ATOM	27083	C6	G	A1283	241.450	146.724	18.074	1.00 92.27	A16S
ATOM	27084	O6	G	A1283	240.764	147.541	17.443	1.00 92.27	A16S
ATOM	27085	C5	G	A1283	242.759	146.891	18.607	1.00 92.27	A16S
ATOM	27086	N7	G	A1283	243.605	147.994	18.576	1.00 92.27	A16S
ATOM	27087	C8	G	A1283	244.680	147.602	19.215	1.00 92.27	A16S
ATOM	27088	C2*	G	A1283	246.421	144.666	19.403	1.00127.74	A16S
ATOM	27089	O2*	G	A1283	246.887	143.503	20.063	1.00127.74	A16S
ATOM	27090	C3*	G	A1283	247.554	145.596	18.995	1.00127.74	A16S
ATOM	27091	O3*	G	A1283	248.636	144.927	18.377	1.00127.74	A16S
ATOM	27092	P	C	A1284	248.585	144.658	16.787	1.00112.01	A16S
ATOM	27093	O1P	C	A1284	249.941	144.185	16.397	1.00 82.57	A16S
ATOM	27094	O2P	C	A1284	247.996	145.854	16.090	1.00 82.57	A16S
ATOM	27095	O5*	C	A1284	247.571	143.428	16.663	1.00112.01	A16S
ATOM	27096	C5*	C	A1284	247.689	142.275	17.542	1.00112.01	A16S
ATOM	27097	C4*	C	A1284	246.533	141.318	17.332	1.00112.01	A16S



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ATOM	27098	O4*	C	A1284	245.293	141.908	17.798	1.00112.01	A16S
ATOM	27099	C1*	C	A1284	244.231	141.543	16.932	1.00112.01	A16S
ATOM	27100	N1	C	A1284	243.687	142.774	16.328	1.00 82.57	A16S
ATOM	27101	C6	C	A1284	244.490	143.867	16.147	1.00 82.57	A16S
ATOM	27102	C2	C	A1284	242.325	142.823	15.945	1.00 82.57	A16S
ATOM	27103	O2	C	A1284	241.607	141.801	16.077	1.00 82.57	A16S
ATOM	27104	N3	C	A1284	241.833	143.983	15.433	1.00 82.57	A16S
ATOM	27105	C4	C	A1284	242.633	145.048	15.289	1.00 82.57	A16S
ATOM	27106	N4	C	A1284	242.103	146.175	14.813	1.00 82.57	A16S
ATOM	27107	C5	C	A1284	244.011	145.008	15.636	1.00 82.57	A16S
ATOM	27108	C2*	C	A1284	244.791	140.573	15.893	1.00112.01	A16S
ATOM	27109	O2*	C	A1284	244.557	139.252	16.331	1.00112.01	A16S
ATOM	27110	C3*	C	A1284	246.267	140.946	15.886	1.00112.01	A16S
ATOM	27111	O3*	C	A1284	247.099	139.878	15.468	1.00112.01	A16S
ATOM	27112	P	A	A1285	247.642	139.854	13.960	1.00111.12	A16S
ATOM	27113	O1P	A	A1285	246.466	140.167	13.109	1.00 84.63	A16S
ATOM	27114	O2P	A	A1285	248.409	138.597	13.737	1.00 84.63	A16S
ATOM	27115	O5*	A	A1285	248.633	141.097	13.881	1.00111.12	A16S
ATOM	27116	C5*	A	A1285	249.209	141.505	12.629	1.00111.12	A16S
ATOM	27117	C4*	A	A1285	248.523	142.751	12.132	1.00111.12	A16S
ATOM	27118	O4*	A	A1285	247.134	142.448	11.927	1.00111.12	A16S
ATOM	27119	C1*	A	A1285	246.401	143.646	11.980	1.00111.12	A16S
ATOM	27120	N9	A	A1285	245.015	143.331	12.323	1.00 84.63	A16S
ATOM	27121	C4	A	A1285	243.922	144.095	11.988	1.00 84.63	A16S
ATOM	27122	N3	A	A1285	243.921	145.280	11.359	1.00 84.63	A16S
ATOM	27123	C2	A	A1285	242.679	145.706	11.166	1.00 84.63	A16S
ATOM	27124	N1	A	A1285	241.523	145.126	11.501	1.00 84.63	A16S
ATOM	27125	C6	A	A1285	241.555	143.934	12.129	1.00 84.63	A16S
ATOM	27126	N6	A	A1285	240.398	143.353	12.445	1.00 84.63	A16S
ATOM	27127	C5	A	A1285	242.817	143.375	12.403	1.00 84.63	A16S
ATOM	27128	N7	A	A1285	243.206	142.194	13.023	1.00 84.63	A16S
ATOM	27129	C8	A	A1285	244.516	142.223	12.964	1.00 84.63	A16S
ATOM	27130	C2*	A	A1285	247.162	144.650	12.853	1.00111.12	A16S
ATOM	27131	O2*	A	A1285	247.191	145.917	12.225	1.00111.12	A16S
ATOM	27132	C3*	A	A1285	248.506	143.933	13.095	1.00111.12	A16S
ATOM	27133	O3*	A	A1285	249.735	144.702	13.053	1.00111.12	A16S
ATOM	27134	P	A	A1286	250.224	145.450	11.694	1.00135.49	A16S
ATOM	27135	O1P	A	A1286	251.640	145.816	11.946	1.00127.98	A16S
ATOM	27136	O2P	A	A1286	249.270	146.511	11.271	1.00127.98	A16S
ATOM	27137	O5*	A	A1286	250.249	144.306	10.583	1.00135.49	A16S
ATOM	27138	C5*	A	A1286	251.503	143.782	10.107	1.00135.49	A16S
ATOM	27139	C4*	A	A1286	251.315	142.956	8.850	1.00135.49	A16S
ATOM	27140	O4*	A	A1286	250.771	141.646	9.171	1.00135.49	A16S
ATOM	27141	C1*	A	A1286	249.982	141.180	8.087	1.00135.49	A16S
ATOM	27142	N9	A	A1286	248.584	141.101	8.535	1.00127.98	A16S
ATOM	27143	C4	A	A1286	247.902	139.981	8.941	1.00127.98	A16S
ATOM	27144	N3	A	A1286	248.372	138.724	9.035	1.00127.98	A16S
ATOM	27145	C2	A	A1286	247.416	137.898	9.465	1.00127.98	A16S
ATOM	27146	N1	A	A1286	246.142	138.169	9.787	1.00127.98	A16S
ATOM	27147	C6	A	A1286	245.705	139.446	9.679	1.00127.98	A16S
ATOM	27148	N6	A	A1286	244.440	139.727	9.998	1.00127.98	A16S
ATOM	27149	C5	A	A1286	246.616	140.411	9.235	1.00127.98	A16S
ATOM	27150	N7	A	A1286	246.488	141.774	9.024	1.00127.98	A16S
ATOM	27151	C8	A	A1286	247.675	142.138	8.621	1.00127.98	A16S
ATOM	27152	C2*	A	A1286	250.143	142.196	6.954	1.00135.49	A16S
ATOM	27153	O2*	A	A1286	251.213	141.808	6.112	1.00135.49	A16S
ATOM	27154	C3*	A	A1286	250.410	143.479	7.741	1.00135.49	A16S
ATOM	27155	O3*	A	A1286	251.002	144.560	7.019	1.00135.49	A16S
ATOM	27156	P	A	A1287	250.348	145.132	5.638	1.00139.66	A16S
ATOM	27157	O1P	A	A1287	250.875	144.269	4.547	1.00100.99	A16S
ATOM	27158	O2P	A	A1287	250.691	146.583	5.646	1.00100.99	A16S
ATOM	27159	O5*	A	A1287	248.735	145.042	5.642	1.00139.66	A16S
ATOM	27160	C5*	A	A1287	247.986	144.022	6.353	1.00139.66	A16S
ATOM	27161	C4*	A	A1287	247.195	143.097	5.414	1.00139.66	A16S
ATOM	27162	O4*	A	A1287	245.867	143.590	5.116	1.00139.66	A16S
ATOM	27163	C1*	A	A1287	245.336	142.824	4.050	1.00139.66	A16S
ATOM	27164	N9	A	A1287	244.589	143.680	3.129	1.00100.99	A16S
ATOM	27165	C4	A	A1287	243.474	143.300	2.413	1.00100.99	A16S
ATOM	27166	N3	A	A1287	242.880	142.095	2.406	1.00100.99	A16S
ATOM	27167	C2	A	A1287	241.821	142.101	1.606	1.00100.99	A16S
ATOM	27168	N1	A	A1287	241.320	143.099	0.865	1.00100.99	A16S
ATOM	27169	C6	A	A1287	241.941	144.294	0.888	1.00100.99	A16S
ATOM	27170	N6	A	A1287	241.446	145.282	0.141	1.00100.99	A16S
ATOM	27171	C5	A	A1287	243.081	144.420	1.701	1.00100.99	A16S
ATOM	27172	N7	A	A1287	243.939	145.481	1.947	1.00100.99	A16S
ATOM	27173	C8	A	A1287	244.816	144.991	2.795	1.00100.99	A16S
ATOM	27174	C2*	A	A1287	246.483	142.057	3.398	1.00139.66	A16S



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ATOM	27175	O2*	A	A1287	246.325	140.697	3.744	1.00139.66	A16S
ATOM	27176	C3*	A	A1287	247.719	142.682	4.047	1.00139.66	A16S
ATOM	27177	O3*	A	A1287	248.718	141.681	4.140	1.00139.66	A16S
ATOM	27178	P	A	A1288	249.658	141.374	2.873	1.00112.10	A16S
ATOM	27179	O1P	A	A1288	250.748	140.494	3.395	1.00 92.06	A16S
ATOM	27180	O2P	A	A1288	249.991	142.654	2.197	1.00 92.06	A16S
ATOM	27181	O5*	A	A1288	248.727	140.573	1.855	1.00112.10	A16S
ATOM	27182	C5*	A	A1288	248.697	139.131	1.841	1.00112.10	A16S
ATOM	27183	C4*	A	A1288	247.771	138.633	0.753	1.00112.10	A16S
ATOM	27184	O4*	A	A1288	246.454	139.215	0.959	1.00112.10	A16S
ATOM	27185	C1*	A	A1288	245.836	139.452	-0.292	1.00112.10	A16S
ATOM	27186	N9	A	A1288	245.630	140.892	-0.445	1.00 92.06	A16S
ATOM	27187	C4	A	A1288	244.601	141.504	-1.124	1.00 92.06	A16S
ATOM	27188	N3	A	A1288	243.584	140.912	-1.768	1.00 92.06	A16S
ATOM	27189	C2	A	A1288	242.792	141.825	-2.338	1.00 92.06	A16S
ATOM	27190	N1	A	A1288	242.888	143.160	-2.327	1.00 92.06	A16S
ATOM	27191	C6	A	A1288	243.913	143.723	-1.660	1.00 92.06	A16S
ATOM	27192	N6	A	A1288	243.991	145.051	-1.632	1.00 92.06	A16S
ATOM	27193	C5	A	A1288	244.837	142.864	-1.027	1.00 92.06	A16S
ATOM	27194	N7	A	A1288	245.992	143.107	-0.299	1.00 92.06	A16S
ATOM	27195	C8	A	A1288	246.420	141.910	0.026	1.00 92.06	A16S
ATOM	27196	C2*	A	A1288	246.773	138.920	-1.375	1.00112.10	A16S
ATOM	27197	O2*	A	A1288	246.418	137.586	-1.692	1.00112.10	A16S
ATOM	27198	C3*	A	A1288	248.124	139.008	-0.681	1.00112.10	A16S
ATOM	27199	O3*	A	A1288	249.077	138.132	-1.283	1.00112.10	A16S
ATOM	27200	P	A	A1289	250.025	138.679	-2.474	1.00105.74	A16S
ATOM	27201	O1P	A	A1289	250.997	137.593	-2.796	1.00 99.25	A16S
ATOM	27202	O2P	A	A1289	250.533	140.034	-2.087	1.00 99.25	A16S
ATOM	27203	O5*	A	A1289	249.045	138.877	-3.722	1.00105.74	A16S
ATOM	27204	C5*	A	A1289	248.466	137.743	-4.398	1.00105.74	A16S
ATOM	27205	C4*	A	A1289	247.292	138.166	-5.255	1.00105.74	A16S
ATOM	27206	O4*	A	A1289	246.273	138.789	-4.430	1.00105.74	A16S
ATOM	27207	C1*	A	A1289	245.572	139.761	-5.187	1.00105.74	A16S
ATOM	27208	N9	A	A1289	245.788	141.076	-4.593	1.00 99.25	A16S
ATOM	27209	C4	A	A1289	245.066	142.204	-4.898	1.00 99.25	A16S
ATOM	27210	N3	A	A1289	243.995	142.292	-5.704	1.00 99.25	A16S
ATOM	27211	C2	A	A1289	243.588	143.550	-5.808	1.00 99.25	A16S
ATOM	27212	N1	A	A1289	244.095	144.648	-5.250	1.00 99.25	A16S
ATOM	27213	C6	A	A1289	245.175	144.525	-4.452	1.00 99.25	A16S
ATOM	27214	N6	A	A1289	245.700	145.625	-3.918	1.00 99.25	A16S
ATOM	27215	C5	A	A1289	245.691	143.240	-4.241	1.00 99.25	A16S
ATOM	27216	N7	A	A1289	246.752	142.770	-3.480	1.00 99.25	A16S
ATOM	27217	C8	A	A1289	246.758	141.480	-3.712	1.00 99.25	A16S
ATOM	27218	C2*	A	A1289	246.174	139.771	-6.591	1.00105.74	A16S
ATOM	27219	O2*	A	A1289	245.400	138.984	-7.475	1.00105.74	A16S
ATOM	27220	C3*	A	A1289	247.560	139.204	-6.330	1.00105.74	A16S
ATOM	27221	O3*	A	A1289	248.126	138.667	-7.510	1.00105.74	A16S
ATOM	27222	P	G	A1290	249.370	139.417	-8.195	1.00 99.52	A16S
ATOM	27223	O1P	G	A1290	249.360	139.122	-9.654	1.00118.11	A16S
ATOM	27224	O2P	G	A1290	250.572	139.087	-7.380	1.00118.11	A16S
ATOM	27225	O5*	G	A1290	249.048	140.970	-8.014	1.00 99.52	A16S
ATOM	27226	C5*	G	A1290	247.958	141.601	-8.723	1.00 99.52	A16S
ATOM	27227	C4*	G	A1290	247.991	143.101	-8.510	1.00 99.52	A16S
ATOM	27228	O4*	G	A1290	247.821	143.386	-7.099	1.00 99.52	A16S
ATOM	27229	C1*	G	A1290	248.616	144.500	-6.734	1.00 99.52	A16S
ATOM	27230	N9	G	A1290	249.573	144.066	-5.719	1.00118.11	A16S
ATOM	27231	C4	G	A1290	250.522	144.851	-5.125	1.00118.11	A16S
ATOM	27232	N3	G	A1290	250.730	146.159	-5.381	1.00118.11	A16S
ATOM	27233	C2	G	A1290	251.722	146.648	-4.664	1.00118.11	A16S
ATOM	27234	N2	G	A1290	252.063	147.942	-4.804	1.00118.11	A16S
ATOM	27235	N1	G	A1290	252.454	145.908	-3.760	1.00118.11	A16S
ATOM	27236	C6	G	A1290	252.254	144.558	-3.477	1.00118.11	A16S
ATOM	27237	O6	G	A1290	252.968	143.986	-2.640	1.00118.11	A16S
ATOM	27238	C5	G	A1290	251.192	144.021	-4.247	1.00118.11	A16S
ATOM	27239	N7	G	A1290	250.669	142.736	-4.287	1.00118.11	A16S
ATOM	27240	C8	G	A1290	249.712	142.808	-5.172	1.00118.11	A16S
ATOM	27241	C2*	G	A1290	249.298	145.027	-7.999	1.00 99.52	A16S
ATOM	27242	O2*	G	A1290	248.556	146.091	-8.563	1.00 99.52	A16S
ATOM	27243	C3*	G	A1290	249.295	143.790	-8.882	1.00 99.52	A16S
ATOM	27244	O3*	G	A1290	249.336	144.134	-10.256	1.00 99.52	A16S
ATOM	27245	P	G	A1291	250.710	143.970	-11.070	1.00102.88	A16S
ATOM	27246	O1P	G	A1291	250.393	144.254	-12.497	1.00118.68	A16S
ATOM	27247	O2P	G	A1291	251.318	142.659	-10.697	1.00118.68	A16S
ATOM	27248	O5*	G	A1291	251.638	145.133	-10.493	1.00102.88	A16S
ATOM	27249	C5*	G	A1291	251.343	146.516	-10.757	1.00102.88	A16S
ATOM	27250	C4*	G	A1291	252.313	147.412	-10.025	1.00102.88	A16S
ATOM	27251	O4*	G	A1291	252.144	147.244	-8.595	1.00102.88	A16S



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ATOM	27252	C1*	G	A1291	253.397	147.374	-7.946	1.00102.88	A16S
ATOM	27253	N9	G	A1291	253.662	146.154	-7.191	1.00118.68	A16S
ATOM	27254	C4	G	A1291	254.705	145.935	-6.321	1.00118.68	A16S
ATOM	27255	N3	G	A1291	255.692	146.809	-6.027	1.00118.68	A16S
ATOM	27256	C2	G	A1291	256.546	146.311	-5.140	1.00118.68	A16S
ATOM	27257	N2	G	A1291	257.592	147.050	-4.730	1.00118.68	A16S
ATOM	27258	N1	G	A1291	256.438	145.053	-4.588	1.00118.68	A16S
ATOM	27259	C6	G	A1291	255.430	144.139	-4.878	1.00118.68	A16S
ATOM	27260	O6	G	A1291	255.422	143.033	-4.324	1.00118.68	A16S
ATOM	27261	C5	G	A1291	254.509	144.661	-5.828	1.00118.68	A16S
ATOM	27262	N7	G	A1291	253.377	144.088	-6.386	1.00118.68	A16S
ATOM	27263	C8	G	A1291	252.913	145.004	-7.191	1.00118.68	A16S
ATOM	27264	C2*	G	A1291	254.447	147.683	-9.011	1.00102.88	A16S
ATOM	27265	O2*	G	A1291	254.632	149.083	-9.032	1.00102.88	A16S
ATOM	27266	C3*	G	A1291	253.786	147.142	-10.276	1.00102.88	A16S
ATOM	27267	O3*	G	A1291	254.235	147.810	-11.450	1.00102.88	A16S
ATOM	27268	P	U	A1292	255.450	147.193	-12.302	1.00104.54	A16S
ATOM	27269	O1P	U	A1292	255.661	148.101	-13.458	1.00121.33	A16S
ATOM	27270	O2P	U	A1292	255.193	145.759	-12.541	1.00121.33	A16S
ATOM	27271	O5*	U	A1292	256.700	147.268	-11.318	1.00104.54	A16S
ATOM	27272	C5*	U	A1292	257.365	148.517	-11.061	1.00104.54	A16S
ATOM	27273	C4*	U	A1292	258.559	148.314	-10.150	1.00104.54	A16S
ATOM	27274	O4*	U	A1292	258.120	147.916	-8.824	1.00104.54	A16S
ATOM	27275	C1*	U	A1292	259.077	147.043	-8.244	1.00104.54	A16S
ATOM	27276	N1	U	A1292	258.424	145.757	-7.951	1.00121.33	A16S
ATOM	27277	C6	U	A1292	257.320	145.337	-8.665	1.00121.33	A16S
ATOM	27278	C2	U	A1292	258.959	144.968	-6.934	1.00121.33	A16S
ATOM	27279	O2	U	A1292	259.932	145.294	-6.273	1.00121.33	A16S
ATOM	27280	N3	U	A1292	258.310	143.778	-6.723	1.00121.33	A16S
ATOM	27281	C4	U	A1292	257.208	143.299	-7.404	1.00121.33	A16S
ATOM	27282	O4	U	A1292	256.723	142.210	-7.080	1.00121.33	A16S
ATOM	27283	C5	U	A1292	256.714	144.168	-8.435	1.00121.33	A16S
ATOM	27284	C2*	U	A1292	260.229	146.890	-9.239	1.00104.54	A16S
ATOM	27285	O2*	U	A1292	261.278	147.782	-8.909	1.00104.54	A16S
ATOM	27286	C3*	U	A1292	259.546	147.234	-10.558	1.00104.54	A16S
ATOM	27287	O3*	U	A1292	260.467	147.670	-11.551	1.00104.54	A16S
ATOM	27288	P	G	A1293	261.100	146.592	-12.567	1.00115.75	A16S
ATOM	27289	O1P	G	A1293	261.894	147.360	-13.560	1.00126.67	A16S
ATOM	27290	O2P	G	A1293	260.017	145.686	-13.046	1.00126.67	A16S
ATOM	27291	O5*	G	A1293	262.099	145.756	-11.646	1.00115.75	A16S
ATOM	27292	C5*	G	A1293	263.264	146.390	-11.101	1.00115.75	A16S
ATOM	27293	C4*	G	A1293	264.009	145.455	-10.184	1.00115.75	A16S
ATOM	27294	O4*	G	A1293	263.254	145.238	-8.964	1.00115.75	A16S
ATOM	27295	C1*	G	A1293	263.511	143.931	-8.472	1.00115.75	A16S
ATOM	27296	N9	G	A1293	262.259	143.175	-8.452	1.00126.67	A16S
ATOM	27297	C4	G	A1293	261.980	142.070	-7.673	1.00126.67	A16S
ATOM	27298	N3	G	A1293	262.805	141.509	-6.759	1.00126.67	A16S
ATOM	27299	C2	G	A1293	262.264	140.445	-6.187	1.00126.67	A16S
ATOM	27300	N2	G	A1293	262.943	139.774	-5.246	1.00126.67	A16S
ATOM	27301	N1	G	A1293	261.016	139.964	-6.494	1.00126.67	A16S
ATOM	27302	C6	G	A1293	260.151	140.521	-7.434	1.00126.67	A16S
ATOM	27303	O6	G	A1293	259.048	140.000	-7.644	1.00126.67	A16S
ATOM	27304	C5	G	A1293	260.716	141.671	-8.046	1.00126.67	A16S
ATOM	27305	N7	G	A1293	260.198	142.516	-9.019	1.00126.67	A16S
ATOM	27306	C8	G	A1293	261.142	143.393	-9.224	1.00126.67	A16S
ATOM	27307	C2*	G	A1293	264.528	143.284	-9.415	1.00115.75	A16S
ATOM	27308	O2*	G	A1293	265.828	143.485	-8.902	1.00115.75	A16S
ATOM	27309	C3*	G	A1293	264.295	144.059	-10.705	1.00115.75	A16S
ATOM	27310	O3*	G	A1293	265.420	144.005	-11.571	1.00115.75	A16S
ATOM	27311	P	G	A1294	265.557	142.784	-12.613	1.00116.04	A16S
ATOM	27312	O1P	G	A1294	266.766	143.046	-13.441	1.00115.15	A16S
ATOM	27313	O2P	G	A1294	264.250	142.561	-13.287	1.00115.15	A16S
ATOM	27314	O5*	G	A1294	265.847	141.527	-11.675	1.00116.04	A16S
ATOM	27315	C5*	G	A1294	267.032	141.489	-10.865	1.00116.04	A16S
ATOM	27316	C4*	G	A1294	267.076	140.236	-10.020	1.00116.04	A16S
ATOM	27317	O4*	G	A1294	266.085	140.292	-8.959	1.00116.04	A16S
ATOM	27318	C1*	G	A1294	265.661	138.972	-8.633	1.00116.04	A16S
ATOM	27319	N9	G	A1294	264.224	138.842	-8.883	1.00115.15	A16S
ATOM	27320	C4	G	A1294	263.404	137.868	-8.360	1.00115.15	A16S
ATOM	27321	N3	G	A1294	263.779	136.903	-7.490	1.00115.15	A16S
ATOM	27322	C2	G	A1294	262.785	136.084	-7.201	1.00115.15	A16S
ATOM	27323	N2	G	A1294	262.998	135.062	-6.360	1.00115.15	A16S
ATOM	27324	N1	G	A1294	261.516	136.206	-7.720	1.00115.15	A16S
ATOM	27325	C6	G	A1294	261.105	137.194	-8.616	1.00115.15	A16S
ATOM	27326	O6	G	A1294	259.937	137.209	-9.033	1.00115.15	A16S
ATOM	27327	C5	G	A1294	262.167	138.081	-8.934	1.00115.15	A16S
ATOM	27328	N7	G	A1294	262.197	139.186	-9.777	1.00115.15	A16S



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ATOM	27329	C8	G	A1294	263.431	139.611	-9.709	1.00115.15	A16S
ATOM	27330	C2*	G	A1294	266.438	138.008	-9.530	1.00116.04	A16S
ATOM	27331	O2*	G	A1294	267.562	137.496	-8.836	1.00116.04	A16S
ATOM	27332	C3*	G	A1294	266.794	138.912	-10.706	1.00116.04	A16S
ATOM	27333	O3*	G	A1294	267.875	138.414	-11.471	1.00116.04	A16S
ATOM	27334	P	G	A1295	267.572	137.408	-12.690	1.00 99.94	A16S
ATOM	27335	O1P	G	A1295	268.827	137.284	-13.474	1.00 93.28	A16S
ATOM	27336	O2P	G	A1295	266.320	137.860	-13.377	1.00 93.28	A16S
ATOM	27337	O5*	G	A1295	267.296	136.012	-11.959	1.00 99.94	A16S
ATOM	27338	C5*	G	A1295	268.234	135.496	-10.996	1.00 99.94	A16S
ATOM	27339	C4*	G	A1295	267.612	134.388	-10.175	1.00 99.94	A16S
ATOM	27340	O4*	G	A1295	266.464	134.888	-9.438	1.00 99.94	A16S
ATOM	27341	C1*	G	A1295	265.507	133.846	-9.272	1.00 99.94	A16S
ATOM	27342	N9	G	A1295	264.240	134.243	-9.896	1.00 93.28	A16S
ATOM	27343	C4	G	A1295	263.020	133.610	-9.746	1.00 93.28	A16S
ATOM	27344	N3	G	A1295	262.785	132.506	-9.009	1.00 93.28	A16S
ATOM	27345	C2	G	A1295	261.521	132.129	-9.078	1.00 93.28	A16S
ATOM	27346	N2	G	A1295	261.121	131.027	-8.433	1.00 93.28	A16S
ATOM	27347	N1	G	A1295	260.558	132.795	-9.789	1.00 93.28	A16S
ATOM	27348	C6	G	A1295	260.772	133.937	-10.544	1.00 93.28	A16S
ATOM	27349	O6	G	A1295	259.829	134.465	-11.135	1.00 93.28	A16S
ATOM	27350	C5	G	A1295	262.130	134.341	-10.505	1.00 93.28	A16S
ATOM	27351	N7	G	A1295	262.770	135.403	-11.132	1.00 93.28	A16S
ATOM	27352	C8	G	A1295	264.016	135.309	-10.742	1.00 93.28	A16S
ATOM	27353	C2*	G	A1295	266.090	132.592	-9.914	1.00 99.94	A16S
ATOM	27354	O2*	G	A1295	266.743	131.823	-8.922	1.00 99.94	A16S
ATOM	27355	C3*	G	A1295	267.057	133.193	-10.925	1.00 99.94	A16S
ATOM	27356	O3*	G	A1295	268.049	132.270	-11.322	1.00 99.94	A16S
ATOM	27357	P	C	A1296	267.846	131.450	-12.688	1.00103.11	A16S
ATOM	27358	O1P	C	A1296	268.998	130.519	-12.806	1.00 80.62	A16S
ATOM	27359	O2P	C	A1296	267.542	132.412	-13.793	1.00 80.62	A16S
ATOM	27360	O5*	C	A1296	266.550	130.567	-12.411	1.00103.11	A16S
ATOM	27361	C5*	C	A1296	266.582	129.521	-11.420	1.00103.11	A16S
ATOM	27362	C4*	C	A1296	265.339	128.670	-11.505	1.00103.11	A16S
ATOM	27363	O4*	C	A1296	264.190	129.417	-11.052	1.00103.11	A16S
ATOM	27364	C1*	C	A1296	263.060	129.056	-11.815	1.00103.11	A16S
ATOM	27365	N1	C	A1296	262.514	130.288	-12.415	1.00 80.62	A16S
ATOM	27366	C6	C	A1296	263.348	131.287	-12.835	1.00 80.62	A16S
ATOM	27367	C2	C	A1296	261.126	130.437	-12.533	1.00 80.62	A16S
ATOM	27368	O2	C	A1296	260.390	129.511	-12.157	1.00 80.62	A16S
ATOM	27369	N3	C	A1296	260.623	131.587	-13.051	1.00 80.62	A16S
ATOM	27370	C4	C	A1296	261.451	132.563	-13.438	1.00 80.62	A16S
ATOM	27371	N4	C	A1296	260.924	133.691	-13.921	1.00 80.62	A16S
ATOM	27372	C5	C	A1296	262.863	132.431	-13.344	1.00 80.62	A16S
ATOM	27373	C2*	C	A1296	263.480	127.955	-12.798	1.00103.11	A16S
ATOM	27374	O2*	C	A1296	263.166	126.696	-12.232	1.00103.11	A16S
ATOM	27375	C3*	C	A1296	264.988	128.162	-12.889	1.00103.11	A16S
ATOM	27376	O3*	C	A1296	265.673	126.928	-13.090	1.00103.11	A16S
ATOM	27377	P	C	A1297	266.480	126.664	-14.455	1.00 82.69	A16S
ATOM	27378	O1P	C	A1297	267.029	125.278	-14.338	1.00 86.04	A16S
ATOM	27379	O2P	C	A1297	267.406	127.802	-14.713	1.00 86.04	A16S
ATOM	27380	O5*	C	A1297	265.340	126.691	-15.572	1.00 82.69	A16S
ATOM	27381	C5*	C	A1297	264.381	125.626	-15.663	1.00 82.69	A16S
ATOM	27382	C4*	C	A1297	263.466	125.855	-16.828	1.00 82.69	A16S
ATOM	27383	O4*	C	A1297	262.851	127.152	-16.653	1.00 82.69	A16S
ATOM	27384	C1*	C	A1297	262.986	127.899	-17.838	1.00 82.69	A16S
ATOM	27385	N1	C	A1297	263.115	129.309	-17.478	1.00 86.04	A16S
ATOM	27386	C6	C	A1297	264.028	129.709	-16.544	1.00 86.04	A16S
ATOM	27387	C2	C	A1297	262.268	130.251	-18.101	1.00 86.04	A16S
ATOM	27388	O2	C	A1297	261.446	129.867	-18.954	1.00 86.04	A16S
ATOM	27389	N3	C	A1297	262.367	131.550	-17.752	1.00 86.04	A16S
ATOM	27390	C4	C	A1297	263.256	131.926	-16.828	1.00 86.04	A16S
ATOM	27391	N4	C	A1297	263.308	133.220	-16.500	1.00 86.04	A16S
ATOM	27392	C5	C	A1297	264.131	130.993	-16.193	1.00 86.04	A16S
ATOM	27393	C2*	C	A1297	264.187	127.329	-18.578	1.00 82.69	A16S
ATOM	27394	O2*	C	A1297	264.014	127.555	-19.959	1.00 82.69	A16S
ATOM	27395	C3*	C	A1297	264.086	125.848	-18.228	1.00 82.69	A16S
ATOM	27396	O3*	C	A1297	263.161	125.257	-19.138	1.00 82.69	A16S
ATOM	27397	P	C	A1298	263.583	123.972	-20.013	1.00 87.22	A16S
ATOM	27398	O1P	C	A1298	264.549	123.133	-19.225	1.00 79.77	A16S
ATOM	27399	O2P	C	A1298	263.952	124.458	-21.376	1.00 79.77	A16S
ATOM	27400	O5*	C	A1298	262.213	123.166	-20.129	1.00 87.22	A16S
ATOM	27401	C5*	C	A1298	261.751	122.354	-19.029	1.00 87.22	A16S
ATOM	27402	C4*	C	A1298	260.242	122.273	-19.006	1.00 87.22	A16S
ATOM	27403	O4*	C	A1298	259.649	123.485	-18.455	1.00 87.22	A16S
ATOM	27404	C1*	C	A1298	258.584	123.886	-19.282	1.00 87.22	A16S
ATOM	27405	N1	C	A1298	258.367	125.339	-19.154	1.00 79.77	A16S



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ATOM	27406	C6	C	A1298	259.415	126.203	-19.007	1.00	79.77	A16S
ATOM	27407	C2	C	A1298	257.044	125.834	-19.213	1.00	79.77	A16S
ATOM	27408	O2	C	A1298	256.092	125.028	-19.275	1.00	79.77	A16S
ATOM	27409	N3	C	A1298	256.835	127.177	-19.189	1.00	79.77	A16S
ATOM	27410	C4	C	A1298	257.873	128.009	-19.084	1.00	79.77	A16S
ATOM	27411	N4	C	A1298	257.625	129.321	-19.100	1.00	79.77	A16S
ATOM	27412	C5	C	A1298	259.216	127.533	-18.965	1.00	79.77	A16S
ATOM	27413	C2*	C	A1298	258.965	123.383	-20.677	1.00	87.22	A16S
ATOM	27414	O2*	C	A1298	257.837	123.305	-21.524	1.00	87.22	A16S
ATOM	27415	C3*	C	A1298	259.558	122.017	-20.341	1.00	87.22	A16S
ATOM	27416	O3*	C	A1298	258.488	121.106	-20.121	1.00	87.22	A16S
ATOM	27417	P	A	A1299	258.474	119.679	-20.862	1.00	85.66	A16S
ATOM	27418	O1P	A	A1299	257.053	119.422	-21.249	1.00	91.50	A16S
ATOM	27419	O2P	A	A1299	259.531	119.679	-21.916	1.00	91.50	A16S
ATOM	27420	O5*	A	A1299	258.871	118.653	-19.703	1.00	85.66	A16S
ATOM	27421	C5*	A	A1299	260.205	118.111	-19.598	1.00	85.66	A16S
ATOM	27422	C4*	A	A1299	260.635	118.067	-18.153	1.00	85.66	A16S
ATOM	27423	O4*	A	A1299	260.817	119.404	-17.678	1.00	85.66	A16S
ATOM	27424	C1*	A	A1299	260.694	119.411	-16.278	1.00	85.66	A16S
ATOM	27425	N9	A	A1299	260.294	120.760	-15.870	1.00	91.50	A16S
ATOM	27426	C4	A	A1299	259.073	121.381	-15.946	1.00	91.50	A16S
ATOM	27427	N3	A	A1299	257.906	120.838	-16.317	1.00	91.50	A16S
ATOM	27428	C2	A	A1299	256.952	121.770	-16.339	1.00	91.50	A16S
ATOM	27429	N1	A	A1299	257.037	123.090	-16.067	1.00	91.50	A16S
ATOM	27430	C6	A	A1299	258.232	123.597	-15.709	1.00	91.50	A16S
ATOM	27431	N6	A	A1299	258.330	124.906	-15.482	1.00	91.50	A16S
ATOM	27432	C5	A	A1299	259.308	122.712	-15.618	1.00	91.50	A16S
ATOM	27433	N7	A	A1299	260.630	122.904	-15.264	1.00	91.50	A16S
ATOM	27434	C8	A	A1299	261.167	121.719	-15.409	1.00	91.50	A16S
ATOM	27435	C2*	A	A1299	259.923	118.159	-15.848	1.00	85.66	A16S
ATOM	27436	O2*	A	A1299	260.748	117.400	-14.994	1.00	85.66	A16S
ATOM	27437	C3*	A	A1299	259.634	117.458	-17.188	1.00	85.66	A16S
ATOM	27438	O3*	A	A1299	259.916	116.057	-17.146	1.00	85.66	A16S
ATOM	27439	P	G	A1300	258.736	114.992	-16.887	1.00	96.82	A16S
ATOM	27440	O1P	G	A1300	258.574	114.167	-18.116	1.00	75.67	A16S
ATOM	27441	O2P	G	A1300	257.576	115.762	-16.368	1.00	75.67	A16S
ATOM	27442	O5*	G	A1300	259.361	114.065	-15.740	1.00	96.82	A16S
ATOM	27443	C5*	G	A1300	258.605	113.629	-14.566	1.00	96.82	A16S
ATOM	27444	C4*	G	A1300	258.174	114.819	-13.731	1.00	96.82	A16S
ATOM	27445	O4*	G	A1300	256.837	115.160	-14.142	1.00	96.82	A16S
ATOM	27446	C1*	G	A1300	256.122	115.669	-13.056	1.00	96.82	A16S
ATOM	27447	N9	G	A1300	254.792	115.061	-13.033	1.00	75.67	A16S
ATOM	27448	C4	G	A1300	253.599	115.753	-13.066	1.00	75.67	A16S
ATOM	27449	N3	G	A1300	253.464	117.098	-13.058	1.00	75.67	A16S
ATOM	27450	C2	G	A1300	252.202	117.469	-13.105	1.00	75.67	A16S
ATOM	27451	N2	G	A1300	251.889	118.769	-13.086	1.00	75.67	A16S
ATOM	27452	N1	G	A1300	251.152	116.595	-13.169	1.00	75.67	A16S
ATOM	27453	C6	G	A1300	251.260	115.210	-13.187	1.00	75.67	A16S
ATOM	27454	O6	G	A1300	250.236	114.517	-13.264	1.00	75.67	A16S
ATOM	27455	C5	G	A1300	252.615	114.790	-13.118	1.00	75.67	A16S
ATOM	27456	N7	G	A1300	253.169	113.515	-13.088	1.00	75.67	A16S
ATOM	27457	C8	G	A1300	254.461	113.723	-13.027	1.00	75.67	A16S
ATOM	27458	C2*	G	A1300	257.019	115.640	-11.821	1.00	96.82	A16S
ATOM	27459	O2*	G	A1300	257.569	116.932	-11.737	1.00	96.82	A16S
ATOM	27460	C3*	G	A1300	258.099	114.642	-12.218	1.00	96.82	A16S
ATOM	27461	O3*	G	A1300	259.427	114.942	-11.700	1.00	96.82	A16S
ATOM	27462	P	U	A1301	259.654	115.757	-10.299	1.00	92.27	A16S
ATOM	27463	O1P	U	A1301	260.939	115.243	-9.755	1.00	77.83	A16S
ATOM	27464	O2P	U	A1301	258.451	115.745	-9.423	1.00	77.83	A16S
ATOM	27465	O5*	U	A1301	259.945	117.261	-10.758	1.00	92.27	A16S
ATOM	27466	C5*	U	A1301	261.201	117.608	-11.388	1.00	92.27	A16S
ATOM	27467	C4*	U	A1301	261.289	119.097	-11.625	1.00	92.27	A16S
ATOM	27468	O4*	U	A1301	260.277	119.463	-12.577	1.00	92.27	A16S
ATOM	27469	C1*	U	A1301	259.796	120.755	-12.282	1.00	92.27	A16S
ATOM	27470	N1	U	A1301	258.339	120.771	-12.493	1.00	77.83	A16S
ATOM	27471	C6	U	A1301	257.601	119.616	-12.425	1.00	77.83	A16S
ATOM	27472	C2	U	A1301	257.735	121.979	-12.806	1.00	77.83	A16S
ATOM	27473	O2	U	A1301	258.340	123.040	-12.835	1.00	77.83	A16S
ATOM	27474	N3	U	A1301	256.392	121.894	-13.089	1.00	77.83	A16S
ATOM	27475	C4	U	A1301	255.611	120.754	-13.090	1.00	77.83	A16S
ATOM	27476	O4	U	A1301	254.480	120.798	-13.568	1.00	77.83	A16S
ATOM	27477	C5	U	A1301	256.297	119.569	-12.706	1.00	77.83	A16S
ATOM	27478	C2*	U	A1301	260.372	121.239	-10.945	1.00	92.27	A16S
ATOM	27479	O2*	U	A1301	261.169	122.387	-11.163	1.00	92.27	A16S
ATOM	27480	C3*	U	A1301	261.056	119.973	-10.402	1.00	92.27	A16S
ATOM	27481	O3*	U	A1301	262.293	120.061	-9.630	1.00	92.27	A16S
ATOM	27482	P	U	A1302	263.294	121.340	-9.734	1.00	87.17	A16S



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ATOM	27483	O1P	U	A1302	263.491	121.762	-11.156	1.00101.70	A16S
ATOM	27484	O2P	U	A1302	264.470	120.937	-8.936	1.00101.70	A16S
ATOM	27485	O5*	U	A1302	262.546	122.505	-8.937	1.00 87.17	A16S
ATOM	27486	C5*	U	A1302	262.003	122.268	-7.615	1.00 87.17	A16S
ATOM	27487	C4*	U	A1302	261.375	123.530	-7.045	1.00 87.17	A16S
ATOM	27488	O4*	U	A1302	262.402	124.544	-6.897	1.00 87.17	A16S
ATOM	27489	C1*	U	A1302	261.926	125.751	-7.451	1.00 87.17	A16S
ATOM	27490	N1	U	A1302	263.063	126.618	-7.794	1.00101.70	A16S
ATOM	27491	C6	U	A1302	264.170	126.146	-8.461	1.00101.70	A16S
ATOM	27492	C2	U	A1302	262.990	127.938	-7.377	1.00101.70	A16S
ATOM	27493	O2	U	A1302	262.006	128.412	-6.820	1.00101.70	A16S
ATOM	27494	N3	U	A1302	264.106	128.686	-7.636	1.00101.70	A16S
ATOM	27495	C4	U	A1302	265.258	128.267	-8.258	1.00101.70	A16S
ATOM	27496	O4	U	A1302	266.222	129.034	-8.308	1.00101.70	A16S
ATOM	27497	C5	U	A1302	265.241	126.903	-8.700	1.00101.70	A16S
ATOM	27498	C2*	U	A1302	260.906	125.358	-8.521	1.00 87.17	A16S
ATOM	27499	O2*	U	A1302	260.024	126.433	-8.795	1.00 87.17	A16S
ATOM	27500	C3*	U	A1302	260.217	124.189	-7.816	1.00 87.17	A16S
ATOM	27501	O3*	U	A1302	259.303	124.786	-6.873	1.00 87.17	A16S
ATOM	27502	P	C	A1303	257.928	124.041	-6.467	1.00 77.68	A16S
ATOM	27503	O1P	C	A1303	257.092	125.051	-5.735	1.00 56.79	A16S
ATOM	27504	O2P	C	A1303	258.249	122.729	-5.813	1.00 56.79	A16S
ATOM	27505	O5*	C	A1303	257.206	123.749	-7.859	1.00 77.68	A16S
ATOM	27506	C5*	C	A1303	256.843	124.825	-8.748	1.00 77.68	A16S
ATOM	27507	C4*	C	A1303	255.532	124.518	-9.427	1.00 77.68	A16S
ATOM	27508	O4*	C	A1303	255.689	123.412	-10.349	1.00 77.68	A16S
ATOM	27509	C1*	C	A1303	254.510	122.632	-10.358	1.00 77.68	A16S
ATOM	27510	N1	C	A1303	254.849	121.246	-9.990	1.00 56.79	A16S
ATOM	27511	C6	C	A1303	256.106	120.921	-9.577	1.00 56.79	A16S
ATOM	27512	C2	C	A1303	253.867	120.248	-10.103	1.00 56.79	A16S
ATOM	27513	O2	C	A1303	252.712	120.568	-10.398	1.00 56.79	A16S
ATOM	27514	N3	C	A1303	254.197	118.968	-9.876	1.00 56.79	A16S
ATOM	27515	C4	C	A1303	255.431	118.659	-9.510	1.00 56.79	A16S
ATOM	27516	N4	C	A1303	255.713	117.382	-9.315	1.00 56.79	A16S
ATOM	27517	C5	C	A1303	256.437	119.650	-9.329	1.00 56.79	A16S
ATOM	27518	C2*	C	A1303	253.504	123.294	-9.426	1.00 77.68	A16S
ATOM	27519	O2*	C	A1303	252.663	124.125	-10.200	1.00 77.68	A16S
ATOM	27520	C3*	C	A1303	254.419	124.076	-8.498	1.00 77.68	A16S
ATOM	27521	O3*	C	A1303	253.766	125.183	-7.895	1.00 77.68	A16S
ATOM	27522	P	G	A1304	253.217	125.057	-6.385	1.00 85.00	A16S
ATOM	27523	O1P	G	A1304	252.132	126.073	-6.288	1.00 80.54	A16S
ATOM	27524	O2P	G	A1304	254.363	125.094	-5.411	1.00 80.54	A16S
ATOM	27525	O5*	G	A1304	252.546	123.610	-6.343	1.00 85.00	A16S
ATOM	27526	C5*	G	A1304	251.276	123.357	-6.974	1.00 85.00	A16S
ATOM	27527	C4*	G	A1304	250.774	121.999	-6.574	1.00 85.00	A16S
ATOM	27528	O4*	G	A1304	251.474	120.961	-7.295	1.00 85.00	A16S
ATOM	27529	C1*	G	A1304	251.700	119.851	-6.443	1.00 85.00	A16S
ATOM	27530	N9	G	A1304	253.141	119.629	-6.389	1.00 80.54	A16S
ATOM	27531	C4	G	A1304	253.808	118.421	-6.418	1.00 80.54	A16S
ATOM	27532	N3	G	A1304	253.244	117.194	-6.498	1.00 80.54	A16S
ATOM	27533	C2	G	A1304	254.155	116.228	-6.481	1.00 80.54	A16S
ATOM	27534	N2	G	A1304	253.776	114.934	-6.526	1.00 80.54	A16S
ATOM	27535	N1	G	A1304	255.507	116.454	-6.412	1.00 80.54	A16S
ATOM	27536	C6	G	A1304	256.107	117.709	-6.335	1.00 80.54	A16S
ATOM	27537	O6	G	A1304	257.343	117.806	-6.274	1.00 80.54	A16S
ATOM	27538	C5	G	A1304	255.147	118.745	-6.336	1.00 80.54	A16S
ATOM	27539	N7	G	A1304	255.319	120.120	-6.264	1.00 80.54	A16S
ATOM	27540	C8	G	A1304	254.108	120.602	-6.300	1.00 80.54	A16S
ATOM	27541	C2*	G	A1304	251.064	120.163	-5.082	1.00 85.00	A16S
ATOM	27542	O2*	G	A1304	249.799	119.541	-5.002	1.00 85.00	A16S
ATOM	27543	C3*	G	A1304	250.995	121.688	-5.109	1.00 85.00	A16S
ATOM	27544	O3*	G	A1304	249.905	122.230	-4.393	1.00 85.00	A16S
ATOM	27545	P	G	A1305	250.086	122.710	-2.875	1.00 70.01	A16S
ATOM	27546	O1P	G	A1305	249.506	124.070	-2.756	1.00 98.82	A16S
ATOM	27547	O2P	G	A1305	251.464	122.460	-2.423	1.00 98.82	A16S
ATOM	27548	O5*	G	A1305	249.110	121.725	-2.104	1.00 70.01	A16S
ATOM	27549	C5*	G	A1305	249.374	121.328	-0.772	1.00 70.01	A16S
ATOM	27550	C4*	G	A1305	249.772	119.898	-0.759	1.00 70.01	A16S
ATOM	27551	O4*	G	A1305	250.758	119.722	-1.785	1.00 70.01	A16S
ATOM	27552	C1*	G	A1305	251.749	118.841	-1.320	1.00 70.01	A16S
ATOM	27553	N9	G	A1305	253.054	119.434	-1.591	1.00 98.82	A16S
ATOM	27554	C4	G	A1305	254.121	118.824	-2.210	1.00 98.82	A16S
ATOM	27555	N3	G	A1305	254.181	117.537	-2.608	1.00 98.82	A16S
ATOM	27556	C2	G	A1305	255.327	117.262	-3.203	1.00 98.82	A16S
ATOM	27557	N2	G	A1305	255.553	116.043	-3.666	1.00 98.82	A16S
ATOM	27558	N1	G	A1305	256.335	118.172	-3.393	1.00 98.82	A16S
ATOM	27559	C6	G	A1305	256.294	119.502	-2.996	1.00 98.82	A16S



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ATOM	27560	O6	G	A1305	257.255	120.252	-3.233	1.00	98.82	A16S
ATOM	27561	C5	G	A1305	255.073	119.811	-2.351	1.00	98.82	A16S
ATOM	27562	N7	G	A1305	254.634	120.999	-1.794	1.00	98.82	A16S
ATOM	27563	C8	G	A1305	253.440	120.724	-1.342	1.00	98.82	A16S
ATOM	27564	C2*	G	A1305	251.404	118.403	0.111	1.00	70.01	A16S
ATOM	27565	O2*	G	A1305	250.760	117.160	0.025	1.00	70.01	A16S
ATOM	27566	C3*	G	A1305	250.392	119.452	0.552	1.00	70.01	A16S
ATOM	27567	O3*	G	A1305	249.304	118.893	1.326	1.00	70.01	A16S
ATOM	27568	P	A	A1306	249.588	117.935	2.609	1.00	77.54	A16S
ATOM	27569	O1P	A	A1306	248.578	118.300	3.659	1.00	60.28	A16S
ATOM	27570	O2P	A	A1306	251.053	117.989	2.942	1.00	60.28	A16S
ATOM	27571	O5*	A	A1306	249.245	116.445	2.122	1.00	77.54	A16S
ATOM	27572	C5*	A	A1306	247.892	116.042	1.780	1.00	77.54	A16S
ATOM	27573	C4*	A	A1306	247.885	114.655	1.167	1.00	77.54	A16S
ATOM	27574	O4*	A	A1306	248.741	114.646	-0.005	1.00	77.54	A16S
ATOM	27575	C1*	A	A1306	249.419	113.399	-0.107	1.00	77.54	A16S
ATOM	27576	N9	A	A1306	250.863	113.644	-0.058	1.00	60.28	A16S
ATOM	27577	C4	A	A1306	251.874	112.714	-0.084	1.00	60.28	A16S
ATOM	27578	N3	A	A1306	251.759	111.388	-0.210	1.00	60.28	A16S
ATOM	27579	C2	A	A1306	252.950	110.812	-0.173	1.00	60.28	A16S
ATOM	27580	N1	A	A1306	254.152	111.368	-0.021	1.00	60.28	A16S
ATOM	27581	C6	A	A1306	254.227	112.709	0.117	1.00	60.28	A16S
ATOM	27582	N6	A	A1306	255.420	113.279	0.312	1.00	60.28	A16S
ATOM	27583	C5	A	A1306	253.043	113.430	0.067	1.00	60.28	A16S
ATOM	27584	N7	A	A1306	252.783	114.786	0.146	1.00	60.28	A16S
ATOM	27585	C8	A	A1306	251.482	114.856	0.061	1.00	60.28	A16S
ATOM	27586	C2*	A	A1306	248.935	112.510	1.039	1.00	77.54	A16S
ATOM	27587	O2*	A	A1306	247.943	111.639	0.539	1.00	77.54	A16S
ATOM	27588	C3*	A	A1306	248.427	113.539	2.048	1.00	77.54	A16S
ATOM	27589	O3*	A	A1306	247.410	113.007	2.890	1.00	77.54	A16S
ATOM	27590	P	U	A1307	247.733	112.696	4.436	1.00	77.94	A16S
ATOM	27591	O1P	U	A1307	246.486	112.215	5.106	1.00	68.27	A16S
ATOM	27592	O2P	U	A1307	248.450	113.893	4.970	1.00	68.27	A16S
ATOM	27593	O5*	U	A1307	248.766	111.488	4.393	1.00	77.94	A16S
ATOM	27594	C5*	U	A1307	248.482	110.321	3.628	1.00	77.94	A16S
ATOM	27595	C4*	U	A1307	249.754	109.581	3.317	1.00	77.94	A16S
ATOM	27596	O4*	U	A1307	250.591	110.343	2.409	1.00	77.94	A16S
ATOM	27597	C1*	U	A1307	251.962	110.100	2.710	1.00	77.94	A16S
ATOM	27598	N1	U	A1307	252.628	111.383	2.986	1.00	68.27	A16S
ATOM	27599	C6	U	A1307	251.912	112.530	3.203	1.00	68.27	A16S
ATOM	27600	C2	U	A1307	254.013	111.400	3.001	1.00	68.27	A16S
ATOM	27601	O2	U	A1307	254.695	110.388	2.847	1.00	68.27	A16S
ATOM	27602	N3	U	A1307	254.573	112.642	3.202	1.00	68.27	A16S
ATOM	27603	C4	U	A1307	253.909	113.834	3.392	1.00	68.27	A16S
ATOM	27604	O4	U	A1307	254.549	114.889	3.465	1.00	68.27	A16S
ATOM	27605	C5	U	A1307	252.489	113.719	3.399	1.00	68.27	A16S
ATOM	27606	C2*	U	A1307	252.019	109.134	3.890	1.00	77.94	A16S
ATOM	27607	O2*	U	A1307	252.220	107.818	3.423	1.00	77.94	A16S
ATOM	27608	C3*	U	A1307	250.648	109.347	4.512	1.00	77.94	A16S
ATOM	27609	O3*	U	A1307	250.216	108.272	5.299	1.00	77.94	A16S
ATOM	27610	P	U	A1308	250.353	108.393	6.880	1.00	80.29	A16S
ATOM	27611	O1P	U	A1308	249.657	107.221	7.475	1.00	77.06	A16S
ATOM	27612	O2P	U	A1308	249.936	109.779	7.251	1.00	77.06	A16S
ATOM	27613	O5*	U	A1308	251.921	108.226	7.096	1.00	80.29	A16S
ATOM	27614	C5*	U	A1308	252.555	106.953	6.858	1.00	80.29	A16S
ATOM	27615	C4*	U	A1308	254.063	107.077	6.938	1.00	80.29	A16S
ATOM	27616	O4*	U	A1308	254.516	108.001	5.922	1.00	80.29	A16S
ATOM	27617	C1*	U	A1308	255.653	108.697	6.384	1.00	80.29	A16S
ATOM	27618	N1	U	A1308	255.334	110.129	6.412	1.00	77.06	A16S
ATOM	27619	C6	U	A1308	254.034	110.569	6.506	1.00	77.06	A16S
ATOM	27620	C2	U	A1308	256.389	111.029	6.340	1.00	77.06	A16S
ATOM	27621	O2	U	A1308	257.569	110.676	6.246	1.00	77.06	A16S
ATOM	27622	N3	U	A1308	256.017	112.356	6.377	1.00	77.06	A16S
ATOM	27623	C4	U	A1308	254.731	112.859	6.468	1.00	77.06	A16S
ATOM	27624	O4	U	A1308	254.554	114.082	6.493	1.00	77.06	A16S
ATOM	27625	C5	U	A1308	253.706	111.864	6.531	1.00	77.06	A16S
ATOM	27626	C2*	U	A1308	256.007	108.147	7.761	1.00	80.29	A16S
ATOM	27627	O2*	U	A1308	256.960	107.119	7.588	1.00	80.29	A16S
ATOM	27628	C3*	U	A1308	254.665	107.608	8.230	1.00	80.29	A16S
ATOM	27629	O3*	U	A1308	254.825	106.582	9.203	1.00	80.29	A16S
ATOM	27630	P	G	A1309	255.163	106.976	10.726	1.00	104.99	A16S
ATOM	27631	O1P	G	A1309	254.921	105.740	11.520	1.00	75.64	A16S
ATOM	27632	O2P	G	A1309	254.465	108.245	11.093	1.00	75.64	A16S
ATOM	27633	O5*	G	A1309	256.727	107.300	10.702	1.00	104.99	A16S
ATOM	27634	C5*	G	A1309	257.710	106.257	10.493	1.00	104.99	A16S
ATOM	27635	C4*	G	A1309	259.120	106.827	10.548	1.00	104.99	A16S
ATOM	27636	O4*	G	A1309	259.345	107.700	9.409	1.00	104.99	A16S



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ATOM	27637	C1*	G	A1309	260.146	108.807	9.796	1.00104.99	A16S
ATOM	27638	N9	G	A1309	259.295	109.990	9.786	1.00 75.64	A16S
ATOM	27639	C4	G	A1309	259.691	111.306	9.769	1.00 75.64	A16S
ATOM	27640	N3	G	A1309	260.961	111.756	9.745	1.00 75.64	A16S
ATOM	27641	C2	G	A1309	261.010	113.082	9.729	1.00 75.64	A16S
ATOM	27642	N2	G	A1309	262.191	113.708	9.683	1.00 75.64	A16S
ATOM	27643	N1	G	A1309	259.902	113.892	9.748	1.00 75.64	A16S
ATOM	27644	C6	G	A1309	258.588	113.441	9.772	1.00 75.64	A16S
ATOM	27645	O6	G	A1309	257.653	114.250	9.775	1.00 75.64	A16S
ATOM	27646	C5	G	A1309	258.522	112.038	9.784	1.00 75.64	A16S
ATOM	27647	N7	G	A1309	257.419	111.203	9.810	1.00 75.64	A16S
ATOM	27648	C8	G	A1309	257.923	110.002	9.808	1.00 75.64	A16S
ATOM	27649	C2*	G	A1309	260.619	108.538	11.218	1.00104.99	A16S
ATOM	27650	O2*	G	A1309	261.854	107.853	11.153	1.00104.99	A16S
ATOM	27651	C3*	G	A1309	259.471	107.689	11.755	1.00104.99	A16S
ATOM	27652	O3*	G	A1309	259.817	106.933	12.917	1.00104.99	A16S
ATOM	27653	P	G	A1310	259.425	107.493	14.382	1.00 93.16	A16S
ATOM	27654	O1P	G	A1310	259.933	106.462	15.325	1.00 90.77	A16S
ATOM	27655	O2P	G	A1310	257.990	107.878	14.423	1.00 90.77	A16S
ATOM	27656	O5*	G	A1310	260.288	108.830	14.524	1.00 93.16	A16S
ATOM	27657	C5*	G	A1310	261.721	108.781	14.392	1.00 93.16	A16S
ATOM	27658	C4*	G	A1310	262.334	110.168	14.408	1.00 93.16	A16S
ATOM	27659	O4*	G	A1310	262.024	110.907	13.197	1.00 93.16	A16S
ATOM	27660	C1*	G	A1310	262.063	112.299	13.473	1.00 93.16	A16S
ATOM	27661	N9	G	A1310	260.754	112.880	13.197	1.00 90.77	A16S
ATOM	27662	C4	G	A1310	260.482	114.217	13.030	1.00 90.77	A16S
ATOM	27663	N3	G	A1310	261.389	115.220	13.048	1.00 90.77	A16S
ATOM	27664	C2	G	A1310	260.821	116.406	12.884	1.00 90.77	A16S
ATOM	27665	N2	G	A1310	261.574	117.509	12.874	1.00 90.77	A16S
ATOM	27666	N1	G	A1310	259.468	116.594	12.719	1.00 90.77	A16S
ATOM	27667	C6	G	A1310	258.512	115.575	12.700	1.00 90.77	A16S
ATOM	27668	O6	G	A1310	257.303	115.853	12.557	1.00 90.77	A16S
ATOM	27669	C5	G	A1310	259.114	114.295	12.867	1.00 90.77	A16S
ATOM	27670	N7	G	A1310	258.541	113.031	12.903	1.00 90.77	A16S
ATOM	27671	C8	G	A1310	259.549	112.224	13.093	1.00 90.77	A16S
ATOM	27672	C2*	G	A1310	262.399	112.465	14.954	1.00 93.16	A16S
ATOM	27673	O2*	G	A1310	263.790	112.684	15.078	1.00 93.16	A16S
ATOM	27674	C3*	G	A1310	261.956	111.121	15.527	1.00 93.16	A16S
ATOM	27675	O3*	G	A1310	262.622	110.817	16.744	1.00 93.16	A16S
ATOM	27676	P	G	A1311	261.951	111.240	18.147	1.00100.95	A16S
ATOM	27677	O1P	G	A1311	262.707	110.490	19.185	1.00 99.01	A16S
ATOM	27678	O2P	G	A1311	260.472	111.092	18.076	1.00 99.01	A16S
ATOM	27679	O5*	G	A1311	262.252	112.803	18.262	1.00100.95	A16S
ATOM	27680	C5*	G	A1311	263.601	113.296	18.280	1.00100.95	A16S
ATOM	27681	C4*	G	A1311	263.623	114.801	18.126	1.00100.95	A16S
ATOM	27682	O4*	G	A1311	263.141	115.172	16.806	1.00100.95	A16S
ATOM	27683	C1*	G	A1311	262.467	116.424	16.873	1.00100.95	A16S
ATOM	27684	N9	G	A1311	261.062	116.233	16.504	1.00 99.01	A16S
ATOM	27685	C4	G	A1311	260.179	117.233	16.159	1.00 99.01	A16S
ATOM	27686	N3	G	A1311	260.471	118.549	16.068	1.00 99.01	A16S
ATOM	27687	C2	G	A1311	259.410	119.271	15.757	1.00 99.01	A16S
ATOM	27688	N2	G	A1311	259.524	120.602	15.656	1.00 99.01	A16S
ATOM	27689	N1	G	A1311	258.163	118.743	15.532	1.00 99.01	A16S
ATOM	27690	C6	G	A1311	257.838	117.394	15.616	1.00 99.01	A16S
ATOM	27691	O6	G	A1311	256.680	117.028	15.405	1.00 99.01	A16S
ATOM	27692	C5	G	A1311	258.968	116.603	15.962	1.00 99.01	A16S
ATOM	27693	N7	G	A1311	259.086	115.231	16.157	1.00 99.01	A16S
ATOM	27694	C8	G	A1311	260.344	115.055	16.468	1.00 99.01	A16S
ATOM	27695	C2*	G	A1311	262.567	116.914	18.316	1.00100.95	A16S
ATOM	27696	O2*	G	A1311	263.664	117.794	18.471	1.00100.95	A16S
ATOM	27697	C3*	G	A1311	262.735	115.599	19.063	1.00100.95	A16S
ATOM	27698	O3*	G	A1311	263.258	115.770	20.364	1.00100.95	A16S
ATOM	27699	P	G	A1312	262.248	115.782	21.618	1.00104.48	A16S
ATOM	27700	O1P	G	A1312	263.132	116.048	22.778	1.00 91.69	A16S
ATOM	27701	O2P	G	A1312	261.409	114.543	21.602	1.00 91.69	A16S
ATOM	27702	O5*	G	A1312	261.332	117.072	21.371	1.00104.48	A16S
ATOM	27703	C5*	G	A1312	261.937	118.374	21.424	1.00104.48	A16S
ATOM	27704	C4*	G	A1312	261.031	119.454	20.875	1.00104.48	A16S
ATOM	27705	O4*	G	A1312	260.516	119.081	19.575	1.00104.48	A16S
ATOM	27706	C1*	G	A1312	259.371	119.870	19.292	1.00104.48	A16S
ATOM	27707	N9	G	A1312	258.240	119.020	18.915	1.00 91.69	A16S
ATOM	27708	C4	G	A1312	257.046	119.480	18.397	1.00 91.69	A16S
ATOM	27709	N3	G	A1312	256.738	120.773	18.150	1.00 91.69	A16S
ATOM	27710	C2	G	A1312	255.513	120.913	17.685	1.00 91.69	A16S
ATOM	27711	N2	G	A1312	255.050	122.138	17.409	1.00 91.69	A16S
ATOM	27712	N1	G	A1312	254.655	119.864	17.462	1.00 91.69	A16S
ATOM	27713	C6	G	A1312	254.953	118.519	17.694	1.00 91.69	A16S



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ATOM	27714	O6	G	A1312	254.110	117.642	17.435	1.00	91.69	A16S
ATOM	27715	C5	G	A1312	256.268	118.358	18.217	1.00	91.69	A16S
ATOM	27716	N7	G	A1312	256.956	117.212	18.606	1.00	91.69	A16S
ATOM	27717	C8	G	A1312	258.120	117.651	19.011	1.00	91.69	A16S
ATOM	27718	C2*	G	A1312	259.044	120.678	20.546	1.00104.48		A16S
ATOM	27719	O2*	G	A1312	259.533	121.997	20.378	1.00104.48		A16S
ATOM	27720	C3*	G	A1312	259.781	119.891	21.628	1.00104.48		A16S
ATOM	27721	O3*	G	A1312	260.040	120.740	22.750	1.00104.48		A16S
ATOM	27722	P	U	A1313	258.884	120.984	23.853	1.00117.12		A16S
ATOM	27723	O1P	U	A1313	259.502	121.673	25.014	1.00	95.27	A16S
ATOM	27724	O2P	U	A1313	258.155	119.692	24.060	1.00	95.27	A16S
ATOM	27725	O5*	U	A1313	257.923	122.054	23.170	1.00117.12		A16S
ATOM	27726	C5*	U	A1313	258.419	123.363	22.845	1.00117.12		A16S
ATOM	27727	C4*	U	A1313	257.319	124.223	22.278	1.00117.12		A16S
ATOM	27728	O4*	U	A1313	256.807	123.613	21.066	1.00117.12		A16S
ATOM	27729	C1*	U	A1313	255.420	123.890	20.936	1.00117.12		A16S
ATOM	27730	N1	U	A1313	254.681	122.615	20.909	1.00	95.27	A16S
ATOM	27731	C6	U	A1313	255.210	121.460	21.460	1.00	95.27	A16S
ATOM	27732	C2	U	A1313	253.421	122.605	20.313	1.00	95.27	A16S
ATOM	27733	O2	U	A1313	252.898	123.607	19.827	1.00	95.27	A16S
ATOM	27734	N3	U	A1313	252.789	121.379	20.319	1.00	95.27	A16S
ATOM	27735	C4	U	A1313	253.262	120.195	20.859	1.00	95.27	A16S
ATOM	27736	O4	U	A1313	252.537	119.197	20.857	1.00	95.27	A16S
ATOM	27737	C5	U	A1313	254.559	120.288	21.456	1.00	95.27	A16S
ATOM	27738	C2*	U	A1313	255.013	124.762	22.123	1.00117.12		A16S
ATOM	27739	O2*	U	A1313	255.048	126.134	21.775	1.00117.12		A16S
ATOM	27740	C3*	U	A1313	256.084	124.406	23.143	1.00117.12		A16S
ATOM	27741	O3*	U	A1313	256.219	125.429	24.112	1.00117.12		A16S
ATOM	27742	P	C	A1314	255.351	125.348	25.462	1.00133.89		A16S
ATOM	27743	O1P	C	A1314	255.597	126.606	26.210	1.00	82.26	A16S
ATOM	27744	O2P	C	A1314	255.644	124.032	26.105	1.00	82.26	A16S
ATOM	27745	O5*	C	A1314	253.839	125.392	24.951	1.00133.89		A16S
ATOM	27746	C5*	C	A1314	253.312	126.589	24.335	1.00133.89		A16S
ATOM	27747	C4*	C	A1314	251.857	126.414	23.954	1.00133.89		A16S
ATOM	27748	O4*	C	A1314	251.717	125.478	22.851	1.00133.89		A16S
ATOM	27749	C1*	C	A1314	250.471	124.801	22.959	1.00133.89		A16S
ATOM	27750	N1	C	A1314	250.714	123.354	23.103	1.00	82.26	A16S
ATOM	27751	C6	C	A1314	251.867	122.885	23.668	1.00	82.26	A16S
ATOM	27752	C2	C	A1314	249.733	122.453	22.653	1.00	82.26	A16S
ATOM	27753	O2	C	A1314	248.678	122.901	22.163	1.00	82.26	A16S
ATOM	27754	N3	C	A1314	249.954	121.121	22.772	1.00	82.26	A16S
ATOM	27755	C4	C	A1314	251.087	120.679	23.320	1.00	82.26	A16S
ATOM	27756	N4	C	A1314	251.268	119.358	23.414	1.00	82.26	A16S
ATOM	27757	C5	C	A1314	252.090	121.569	23.796	1.00	82.26	A16S
ATOM	27758	C2*	C	A1314	249.753	125.351	24.186	1.00133.89		A16S
ATOM	27759	O2*	C	A1314	248.866	126.377	23.787	1.00133.89		A16S
ATOM	27760	C3*	C	A1314	250.921	125.866	25.015	1.00133.89		A16S
ATOM	27761	O3*	C	A1314	250.500	126.835	25.947	1.00133.89		A16S
ATOM	27762	P	U	A1315	249.933	126.353	27.367	1.00100.97		A16S
ATOM	27763	O1P	U	A1315	249.930	127.557	28.233	1.00	85.46	A16S
ATOM	27764	O2P	U	A1315	250.642	125.119	27.807	1.00	85.46	A16S
ATOM	27765	O5*	U	A1315	248.430	125.920	27.066	1.00100.97		A16S
ATOM	27766	C5*	U	A1315	247.444	126.879	26.617	1.00100.97		A16S
ATOM	27767	C4*	U	A1315	246.169	126.167	26.212	1.00100.97		A16S
ATOM	27768	O4*	U	A1315	246.443	125.310	25.074	1.00100.97		A16S
ATOM	27769	C1*	U	A1315	245.664	124.136	25.165	1.00100.97		A16S
ATOM	27770	N1	U	A1315	246.561	122.971	25.140	1.00	85.46	A16S
ATOM	27771	C6	U	A1315	247.848	123.049	25.610	1.00	85.46	A16S
ATOM	27772	C2	U	A1315	246.060	121.776	24.638	1.00	85.46	A16S
ATOM	27773	O2	U	A1315	244.943	121.668	24.165	1.00	85.46	A16S
ATOM	27774	N3	U	A1315	246.925	120.711	24.696	1.00	85.46	A16S
ATOM	27775	C4	U	A1315	248.222	120.716	25.168	1.00	85.46	A16S
ATOM	27776	O4	U	A1315	248.882	119.668	25.156	1.00	85.46	A16S
ATOM	27777	C5	U	A1315	248.677	121.995	25.638	1.00	85.46	A16S
ATOM	27778	C2*	U	A1315	244.799	124.232	26.427	1.00100.97		A16S
ATOM	27779	O2*	U	A1315	243.516	124.706	26.076	1.00100.97		A16S
ATOM	27780	C3*	U	A1315	245.564	125.249	27.267	1.00100.97		A16S
ATOM	27781	O3*	U	A1315	244.674	125.977	28.123	1.00100.97		A16S
ATOM	27782	P	G	A1316	244.765	125.813	29.728	1.00104.86		A16S
ATOM	27783	O1P	G	A1316	243.758	126.765	30.274	1.00112.81		A16S
ATOM	27784	O2P	G	A1316	246.187	125.926	30.151	1.00112.81		A16S
ATOM	27785	O5*	G	A1316	244.276	124.323	30.028	1.00104.86		A16S
ATOM	27786	C5*	G	A1316	242.896	123.972	29.884	1.00104.86		A16S
ATOM	27787	C4*	G	A1316	242.750	122.498	29.625	1.00104.86		A16S
ATOM	27788	O4*	G	A1316	243.562	122.115	28.488	1.00104.86		A16S
ATOM	27789	C1*	G	A1316	243.950	120.759	28.620	1.00104.86		A16S
ATOM	27790	N9	G	A1316	245.400	120.664	28.509	1.00112.81		A16S



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ATOM	27791	C4	G	A1316	246.120	119.522	28.223	1.00112.81	A16S
ATOM	27792	N3	G	A1316	245.604	118.300	27.955	1.00112.81	A16S
ATOM	27793	C2	G	A1316	246.551	117.396	27.743	1.00112.81	A16S
ATOM	27794	N2	G	A1316	246.220	116.133	27.465	1.00112.81	A16S
ATOM	27795	N1	G	A1316	247.894	117.667	27.790	1.00112.81	A16S
ATOM	27796	C6	G	A1316	248.450	118.914	28.062	1.00112.81	A16S
ATOM	27797	O6	G	A1316	249.678	119.048	28.080	1.00112.81	A16S
ATOM	27798	C5	G	A1316	247.444	119.899	28.292	1.00112.81	A16S
ATOM	27799	N7	G	A1316	247.556	121.253	28.590	1.00112.81	A16S
ATOM	27800	C8	G	A1316	246.321	121.666	28.701	1.00112.81	A16S
ATOM	27801	C2*	G	A1316	243.459	120.256	29.980	1.00104.86	A16S
ATOM	27802	O2*	G	A1316	242.310	119.444	29.821	1.00104.86	A16S
ATOM	27803	C3*	G	A1316	243.207	121.565	30.729	1.00104.86	A16S
ATOM	27804	O3*	G	A1316	242.203	121.417	31.728	1.00104.86	A16S
ATOM	27805	P	C	A1317	242.619	121.394	33.285	1.00102.74	A16S
ATOM	27806	O1P	C	A1317	243.507	122.587	33.475	1.00105.84	A16S
ATOM	27807	O2P	C	A1317	241.368	121.260	34.097	1.00105.84	A16S
ATOM	27808	O5*	C	A1317	243.452	120.037	33.459	1.00102.74	A16S
ATOM	27809	C5*	C	A1317	244.355	119.862	34.569	1.00102.74	A16S
ATOM	27810	C4*	C	A1317	244.695	118.399	34.768	1.00102.74	A16S
ATOM	27811	O4*	C	A1317	243.509	117.652	35.132	1.00102.74	A16S
ATOM	27812	C1*	C	A1317	243.663	116.301	34.729	1.00102.74	A16S
ATOM	27813	N1	C	A1317	242.468	115.866	33.979	1.00105.84	A16S
ATOM	27814	C6	C	A1317	241.680	116.768	33.315	1.00105.84	A16S
ATOM	27815	C2	C	A1317	242.143	114.488	33.962	1.00105.84	A16S
ATOM	27816	O2	C	A1317	242.891	113.677	34.537	1.00105.84	A16S
ATOM	27817	N3	C	A1317	241.031	114.081	33.313	1.00105.84	A16S
ATOM	27818	C4	C	A1317	240.259	114.975	32.685	1.00105.84	A16S
ATOM	27819	N4	C	A1317	239.156	114.525	32.074	1.00105.84	A16S
ATOM	27820	C5	C	A1317	240.579	116.373	32.661	1.00105.84	A16S
ATOM	27821	C2*	C	A1317	244.966	116.182	33.938	1.00102.74	A16S
ATOM	27822	O2*	C	A1317	245.962	115.583	34.741	1.00102.74	A16S
ATOM	27823	C3*	C	A1317	245.261	117.637	33.580	1.00102.74	A16S
ATOM	27824	O3*	C	A1317	246.659	117.840	33.414	1.00102.74	A16S
ATOM	27825	P	A	A1318	247.282	117.897	31.931	1.00133.94	A16S
ATOM	27826	O1P	A	A1318	248.773	117.898	32.047	1.00 95.74	A16S
ATOM	27827	O2P	A	A1318	246.605	119.013	31.222	1.00 95.74	A16S
ATOM	27828	O5*	A	A1318	246.829	116.521	31.257	1.00133.94	A16S
ATOM	27829	C5*	A	A1318	247.246	115.253	31.806	1.00133.94	A16S
ATOM	27830	C4*	A	A1318	246.523	114.105	31.128	1.00133.94	A16S
ATOM	27831	O4*	A	A1318	245.096	114.222	31.349	1.00133.94	A16S
ATOM	27832	C1*	A	A1318	244.392	113.727	30.221	1.00133.94	A16S
ATOM	27833	N9	A	A1318	243.529	114.802	29.717	1.00 95.74	A16S
ATOM	27834	C4	A	A1318	242.278	114.657	29.160	1.00 95.74	A16S
ATOM	27835	N3	A	A1318	241.612	113.511	28.929	1.00 95.74	A16S
ATOM	27836	C2	A	A1318	240.410	113.763	28.398	1.00 95.74	A16S
ATOM	27837	N1	A	A1318	239.841	114.942	28.094	1.00 95.74	A16S
ATOM	27838	C6	A	A1318	240.536	116.075	28.334	1.00 95.74	A16S
ATOM	27839	N6	A	A1318	239.969	117.248	28.032	1.00 95.74	A16S
ATOM	27840	C5	A	A1318	241.829	115.946	28.897	1.00 95.74	A16S
ATOM	27841	N7	A	A1318	242.788	116.883	29.262	1.00 95.74	A16S
ATOM	27842	C8	A	A1318	243.775	116.159	29.731	1.00 95.74	A16S
ATOM	27843	C2*	A	A1318	245.426	113.193	29.225	1.00133.94	A16S
ATOM	27844	O2*	A	A1318	245.605	111.801	29.436	1.00133.94	A16S
ATOM	27845	C3*	A	A1318	246.675	113.975	29.619	1.00133.94	A16S
ATOM	27846	O3*	A	A1318	247.842	113.234	29.302	1.00133.94	A16S
ATOM	27847	P	A	A1319	248.712	113.627	28.015	1.00123.89	A16S
ATOM	27848	O1P	A	A1319	249.920	112.763	28.089	1.00 71.82	A16S
ATOM	27849	O2P	A	A1319	248.861	115.113	27.959	1.00 71.82	A16S
ATOM	27850	O5*	A	A1319	247.811	113.155	26.786	1.00123.89	A16S
ATOM	27851	C5*	A	A1319	248.320	113.152	25.428	1.00123.89	A16S
ATOM	27852	C4*	A	A1319	247.178	113.294	24.444	1.00123.89	A16S
ATOM	27853	O4*	A	A1319	246.594	114.601	24.567	1.00123.89	A16S
ATOM	27854	C1*	A	A1319	245.753	114.776	23.462	1.00123.89	A16S
ATOM	27855	N9	A	A1319	245.409	116.193	23.331	1.00 71.82	A16S
ATOM	27856	C4	A	A1319	244.228	116.674	22.807	1.00 71.82	A16S
ATOM	27857	N3	A	A1319	243.201	115.957	22.310	1.00 71.82	A16S
ATOM	27858	C2	A	A1319	242.219	116.764	21.896	1.00 71.82	A16S
ATOM	27859	N1	A	A1319	242.154	118.105	21.912	1.00 71.82	A16S
ATOM	27860	C6	A	A1319	243.207	118.800	22.400	1.00 71.82	A16S
ATOM	27861	N6	A	A1319	243.154	120.140	22.374	1.00 71.82	A16S
ATOM	27862	C5	A	A1319	244.310	118.057	22.895	1.00 71.82	A16S
ATOM	27863	N7	A	A1319	245.518	118.440	23.467	1.00 71.82	A16S
ATOM	27864	C8	A	A1319	246.133	117.301	23.701	1.00 71.82	A16S
ATOM	27865	C2*	A	A1319	246.444	114.095	22.276	1.00123.89	A16S
ATOM	27866	O2*	A	A1319	245.467	113.385	21.531	1.00123.89	A16S
ATOM	27867	C3*	A	A1319	247.518	113.212	22.958	1.00123.89	A16S



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ATOM	27868	O3*	A	A1319	247.415	111.850	22.510	1.00123.89	A16S
ATOM	27869	P	C	A1320	248.543	110.770	22.917	1.00106.33	A16S
ATOM	27870	O1P	C	A1320	248.392	110.487	24.367	1.00 95.94	A16S
ATOM	27871	O2P	C	A1320	249.861	111.214	22.383	1.00 95.94	A16S
ATOM	27872	O5*	C	A1320	248.121	109.437	22.155	1.00106.33	A16S
ATOM	27873	C5*	C	A1320	249.104	108.650	21.466	1.00106.33	A16S
ATOM	27874	C4*	C	A1320	248.536	107.305	21.103	1.00106.33	A16S
ATOM	27875	O4*	C	A1320	248.333	106.523	22.303	1.00106.33	A16S
ATOM	27876	C1*	C	A1320	247.181	105.711	22.154	1.00106.33	A16S
ATOM	27877	N1	C	A1320	246.214	106.092	23.194	1.00 95.94	A16S
ATOM	27878	C6	C	A1320	246.155	107.381	23.656	1.00 95.94	A16S
ATOM	27879	C2	C	A1320	245.336	105.114	23.698	1.00 95.94	A16S
ATOM	27880	O2	C	A1320	245.428	103.942	23.287	1.00 95.94	A16S
ATOM	27881	N3	C	A1320	244.416	105.471	24.620	1.00 95.94	A16S
ATOM	27882	C4	C	A1320	244.358	106.736	25.050	1.00 95.94	A16S
ATOM	27883	N4	C	A1320	243.422	107.044	25.947	1.00 95.94	A16S
ATOM	27884	C5	C	A1320	245.254	107.742	24.574	1.00 95.94	A16S
ATOM	27885	C2*	C	A1320	246.624	105.940	20.748	1.00106.33	A16S
ATOM	27886	O2*	C	A1320	247.082	104.918	19.878	1.00106.33	A16S
ATOM	27887	C3*	C	A1320	247.178	107.323	20.429	1.00106.33	A16S
ATOM	27888	O3*	C	A1320	247.293	107.567	19.046	1.00106.33	A16S
ATOM	27889	P	C	A1321	246.114	108.342	18.286	1.00103.78	A16S
ATOM	27890	O1P	C	A1321	246.479	108.305	16.847	1.00 87.26	A16S
ATOM	27891	O2P	C	A1321	245.857	109.655	18.941	1.00 87.26	A16S
ATOM	27892	O5*	C	A1321	244.857	107.390	18.504	1.00103.78	A16S
ATOM	27893	C5*	C	A1321	244.848	106.072	17.933	1.00103.78	A16S
ATOM	27894	C4*	C	A1321	243.615	105.314	18.356	1.00103.78	A16S
ATOM	27895	O4*	C	A1321	243.652	105.084	19.788	1.00103.78	A16S
ATOM	27896	C1*	C	A1321	242.333	105.093	20.301	1.00103.78	A16S
ATOM	27897	N1	C	A1321	242.239	106.138	21.340	1.00 87.26	A16S
ATOM	27898	C6	C	A1321	242.615	107.427	21.079	1.00 87.26	A16S
ATOM	27899	C2	C	A1321	241.728	105.797	22.597	1.00 87.26	A16S
ATOM	27900	O2	C	A1321	241.453	104.614	22.835	1.00 87.26	A16S
ATOM	27901	N3	C	A1321	241.555	106.762	23.526	1.00 87.26	A16S
ATOM	27902	C4	C	A1321	241.889	108.021	23.250	1.00 87.26	A16S
ATOM	27903	N4	C	A1321	241.664	108.946	24.190	1.00 87.26	A16S
ATOM	27904	C5	C	A1321	242.459	108.391	21.996	1.00 87.26	A16S
ATOM	27905	C2*	C	A1321	241.371	105.316	19.128	1.00103.78	A16S
ATOM	27906	O2*	C	A1321	240.890	104.071	18.667	1.00103.78	A16S
ATOM	27907	C3*	C	A1321	242.276	105.992	18.105	1.00103.78	A16S
ATOM	27908	O3*	C	A1321	241.825	105.786	16.771	1.00103.78	A16S
ATOM	27909	P	C	A1322	241.154	107.002	15.961	1.00 97.01	A16S
ATOM	27910	O1P	C	A1322	241.432	106.786	14.515	1.00105.83	A16S
ATOM	27911	O2P	C	A1322	239.754	107.169	16.410	1.00105.83	A16S
ATOM	27912	O5*	C	A1322	241.968	108.291	16.423	1.00 97.01	A16S
ATOM	27913	C5*	C	A1322	241.946	109.475	15.613	1.00 97.01	A16S
ATOM	27914	C4*	C	A1322	241.932	110.716	16.472	1.00 97.01	A16S
ATOM	27915	O4*	C	A1322	240.831	110.633	17.413	1.00 97.01	A16S
ATOM	27916	C1*	C	A1322	241.311	110.890	18.718	1.00 97.01	A16S
ATOM	27917	N1	C	A1322	240.499	110.133	19.692	1.00105.83	A16S
ATOM	27918	C6	C	A1322	239.882	108.961	19.342	1.00105.83	A16S
ATOM	27919	C2	C	A1322	240.354	110.646	20.991	1.00105.83	A16S
ATOM	27920	O2	C	A1322	240.947	111.703	21.301	1.00105.83	A16S
ATOM	27921	N3	C	A1322	239.579	109.979	21.875	1.00105.83	A16S
ATOM	27922	C4	C	A1322	238.972	108.845	21.513	1.00105.83	A16S
ATOM	27923	N4	C	A1322	238.209	108.234	22.416	1.00105.83	A16S
ATOM	27924	C5	C	A1322	239.117	108.292	20.212	1.00105.83	A16S
ATOM	27925	C2*	C	A1322	242.812	110.585	18.700	1.00 97.01	A16S
ATOM	27926	O2*	C	A1322	243.482	111.334	19.706	1.00 97.01	A16S
ATOM	27927	C3*	C	A1322	243.187	111.036	17.288	1.00 97.01	A16S
ATOM	27928	O3*	C	A1322	243.316	112.456	17.324	1.00 97.01	A16S
ATOM	27929	P	G	A1323	244.456	113.201	16.464	1.00 87.55	A16S
ATOM	27930	O1P	G	A1323	244.197	113.013	15.007	1.00 96.84	A16S
ATOM	27931	O2P	G	A1323	245.783	112.825	17.034	1.00 96.84	A16S
ATOM	27932	O5*	G	A1323	244.166	114.733	16.780	1.00 87.55	A16S
ATOM	27933	C5*	G	A1323	242.815	115.195	16.893	1.00 87.55	A16S
ATOM	27934	C4*	G	A1323	242.783	116.620	17.364	1.00 87.55	A16S
ATOM	27935	O4*	G	A1323	243.164	116.696	18.757	1.00 87.55	A16S
ATOM	27936	C1*	G	A1323	243.797	117.945	19.001	1.00 87.55	A16S
ATOM	27937	N9	G	A1323	245.127	117.707	19.561	1.00 96.84	A16S
ATOM	27938	C4	G	A1323	245.948	118.661	20.116	1.00 96.84	A16S
ATOM	27939	N3	G	A1323	245.666	119.977	20.235	1.00 96.84	A16S
ATOM	27940	C2	G	A1323	246.649	120.640	20.808	1.00 96.84	A16S
ATOM	27941	N2	G	A1323	246.532	121.956	20.999	1.00 96.84	A16S
ATOM	27942	N1	G	A1323	247.818	120.062	21.232	1.00 96.84	A16S
ATOM	27943	C6	G	A1323	248.130	118.710	21.120	1.00 96.84	A16S
ATOM	27944	O6	G	A1323	249.222	118.290	21.531	1.00 96.84	A16S



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ATOM	27945	C5	G	A1323	247.082	117.984	20.508	1.00	96.84	A16S
ATOM	27946	N7	G	A1323	246.978	116.633	20.209	1.00	96.84	A16S
ATOM	27947	C8	G	A1323	245.806	116.515	19.646	1.00	96.84	A16S
ATOM	27948	C2*	G	A1323	243.846	118.718	17.681	1.00	87.55	A16S
ATOM	27949	O2*	G	A1323	242.787	119.662	17.622	1.00	87.55	A16S
ATOM	27950	C3*	G	A1323	243.731	117.582	16.671	1.00	87.55	A16S
ATOM	27951	O3*	G	A1323	243.259	117.988	15.405	1.00	87.55	A16S
ATOM	27952	P	A	A1324	244.206	117.812	14.117	1.00	91.36	A16S
ATOM	27953	O1P	A	A1324	243.280	117.624	12.960	1.00	92.62	A16S
ATOM	27954	O2P	A	A1324	245.270	116.794	14.377	1.00	92.62	A16S
ATOM	27955	O5*	A	A1324	244.880	119.244	13.984	1.00	91.36	A16S
ATOM	27956	C5*	A	A1324	244.052	120.395	13.814	1.00	91.36	A16S
ATOM	27957	C4*	A	A1324	244.642	121.577	14.523	1.00	91.36	A16S
ATOM	27958	O4*	A	A1324	244.820	121.262	15.926	1.00	91.36	A16S
ATOM	27959	C1*	A	A1324	245.969	121.925	16.418	1.00	91.36	A16S
ATOM	27960	N9	A	A1324	246.896	120.918	16.942	1.00	92.62	A16S
ATOM	27961	C4	A	A1324	248.040	121.159	17.673	1.00	92.62	A16S
ATOM	27962	N3	A	A1324	248.532	122.352	18.054	1.00	92.62	A16S
ATOM	27963	C2	A	A1324	249.663	122.196	18.736	1.00	92.62	A16S
ATOM	27964	N1	A	A1324	250.309	121.068	19.059	1.00	92.62	A16S
ATOM	27965	C6	A	A1324	249.786	119.887	18.668	1.00	92.62	A16S
ATOM	27966	N6	A	A1324	250.426	118.762	19.001	1.00	92.62	A16S
ATOM	27967	C5	A	A1324	248.590	119.915	17.934	1.00	92.62	A16S
ATOM	27968	N7	A	A1324	247.808	118.909	17.389	1.00	92.62	A16S
ATOM	27969	C8	A	A1324	246.820	119.553	16.813	1.00	92.62	A16S
ATOM	27970	C2*	A	A1324	246.554	122.744	15.263	1.00	91.36	A16S
ATOM	27971	O2*	A	A1324	246.043	124.063	15.306	1.00	91.36	A16S
ATOM	27972	C3*	A	A1324	246.018	121.998	14.053	1.00	91.36	A16S
ATOM	27973	O3*	A	A1324	245.933	122.826	12.904	1.00	91.36	A16S
ATOM	27974	P	C	A1325	247.060	122.713	11.764	1.00	95.98	A16S
ATOM	27975	O1P	C	A1325	246.564	123.453	10.586	1.00	79.91	A16S
ATOM	27976	O2P	C	A1325	247.501	121.290	11.626	1.00	79.91	A16S
ATOM	27977	O5*	C	A1325	248.280	123.544	12.348	1.00	95.98	A16S
ATOM	27978	C5*	C	A1325	248.112	124.911	12.759	1.00	95.98	A16S
ATOM	27979	C4*	C	A1325	249.305	125.353	13.572	1.00	95.98	A16S
ATOM	27980	O4*	C	A1325	249.326	124.655	14.848	1.00	95.98	A16S
ATOM	27981	C1*	C	A1325	250.667	124.418	15.238	1.00	95.98	A16S
ATOM	27982	N1	C	A1325	250.870	122.974	15.432	1.00	79.91	A16S
ATOM	27983	C6	C	A1325	250.020	122.061	14.878	1.00	79.91	A16S
ATOM	27984	C2	C	A1325	251.966	122.543	16.198	1.00	79.91	A16S
ATOM	27985	O2	C	A1325	252.721	123.394	16.702	1.00	79.91	A16S
ATOM	27986	N3	C	A1325	252.177	121.215	16.367	1.00	79.91	A16S
ATOM	27987	C4	C	A1325	251.346	120.334	15.809	1.00	79.91	A16S
ATOM	27988	N4	C	A1325	251.600	119.032	15.981	1.00	79.91	A16S
ATOM	27989	C5	C	A1325	250.217	120.746	15.041	1.00	79.91	A16S
ATOM	27990	C2*	C	A1325	251.580	124.999	14.160	1.00	95.98	A16S
ATOM	27991	O2*	C	A1325	251.976	126.290	14.567	1.00	95.98	A16S
ATOM	27992	C3*	C	A1325	250.655	125.042	12.953	1.00	95.98	A16S
ATOM	27993	O3*	C	A1325	251.053	126.017	12.003	1.00	95.98	A16S
ATOM	27994	P	C	A1326	252.104	125.608	10.867	1.00	93.73	A16S
ATOM	27995	O1P	C	A1326	252.168	126.702	9.868	1.00	73.05	A16S
ATOM	27996	O2P	C	A1326	251.757	124.236	10.443	1.00	73.05	A16S
ATOM	27997	O5*	C	A1326	253.493	125.520	11.634	1.00	93.73	A16S
ATOM	27998	C5*	C	A1326	254.007	126.674	12.305	1.00	93.73	A16S
ATOM	27999	C4*	C	A1326	255.289	126.347	13.021	1.00	93.73	A16S
ATOM	28000	O4*	C	A1326	255.047	125.433	14.116	1.00	93.73	A16S
ATOM	28001	C1*	C	A1326	256.176	124.605	14.291	1.00	93.73	A16S
ATOM	28002	N1	C	A1326	255.745	123.200	14.247	1.00	73.05	A16S
ATOM	28003	C6	C	A1326	254.523	122.851	13.742	1.00	73.05	A16S
ATOM	28004	C2	C	A1326	256.607	122.217	14.750	1.00	73.05	A16S
ATOM	28005	O2	C	A1326	257.710	122.556	15.189	1.00	73.05	A16S
ATOM	28006	N3	C	A1326	256.215	120.923	14.748	1.00	73.05	A16S
ATOM	28007	C4	C	A1326	255.013	120.595	14.276	1.00	73.05	A16S
ATOM	28008	N4	C	A1326	254.658	119.313	14.323	1.00	73.05	A16S
ATOM	28009	C5	C	A1326	254.119	121.571	13.741	1.00	73.05	A16S
ATOM	28010	C2*	C	A1326	257.215	124.988	13.236	1.00	93.73	A16S
ATOM	28011	O2*	C	A1326	258.118	125.883	13.849	1.00	93.73	A16S
ATOM	28012	C3*	C	A1326	256.354	125.676	12.182	1.00	93.73	A16S
ATOM	28013	O3*	C	A1326	257.063	126.664	11.446	1.00	93.73	A16S
ATOM	28014	P	C	A1327	257.659	126.297	10.005	1.00	95.41	A16S
ATOM	28015	O1P	C	A1327	258.183	127.556	9.406	1.00	90.31	A16S
ATOM	28016	O2P	C	A1327	256.628	125.517	9.293	1.00	90.31	A16S
ATOM	28017	O5*	C	A1327	258.882	125.336	10.347	1.00	95.41	A16S
ATOM	28018	C5*	C	A1327	260.032	125.867	11.019	1.00	95.41	A16S
ATOM	28019	C4*	C	A1327	261.027	124.780	11.334	1.00	95.41	A16S
ATOM	28020	O4*	C	A1327	260.548	123.939	12.411	1.00	95.41	A16S
ATOM	28021	C1*	C	A1327	261.105	122.645	12.276	1.00	95.41	A16S



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ATOM	28022	N1	C	A1327	260.023	121.648	12.258	1.00	90.31	A16S
ATOM	28023	C6	C	A1327	258.757	121.974	11.851	1.00	90.31	A16S
ATOM	28024	C2	C	A1327	260.321	120.334	12.663	1.00	90.31	A16S
ATOM	28025	O2	C	A1327	261.474	120.066	13.047	1.00	90.31	A16S
ATOM	28026	N3	C	A1327	259.349	119.394	12.628	1.00	90.31	A16S
ATOM	28027	C4	C	A1327	258.122	119.721	12.221	1.00	90.31	A16S
ATOM	28028	N4	C	A1327	257.205	118.759	12.197	1.00	90.31	A16S
ATOM	28029	C5	C	A1327	257.786	121.050	11.818	1.00	90.31	A16S
ATOM	28030	C2*	C	A1327	261.950	122.621	11.001	1.00	95.41	A16S
ATOM	28031	O2*	C	A1327	263.311	122.776	11.358	1.00	95.41	A16S
ATOM	28032	C3*	C	A1327	261.377	123.806	10.225	1.00	95.41	A16S
ATOM	28033	O3*	C	A1327	262.300	124.362	9.296	1.00	95.41	A16S
ATOM	28034	P	C	A1328	262.348	123.787	7.797	1.00	86.56	A16S
ATOM	28035	O1P	C	A1328	263.301	124.621	7.014	1.00	84.91	A16S
ATOM	28036	O2P	C	A1328	260.946	123.637	7.309	1.00	84.91	A16S
ATOM	28037	O5*	C	A1328	262.988	122.339	8.008	1.00	86.56	A16S
ATOM	28038	C5*	C	A1328	264.291	122.215	8.595	1.00	86.56	A16S
ATOM	28039	C4*	C	A1328	264.700	120.766	8.731	1.00	86.56	A16S
ATOM	28040	O4*	C	A1328	263.983	120.117	9.811	1.00	86.56	A16S
ATOM	28041	C1*	C	A1328	263.895	118.727	9.545	1.00	86.56	A16S
ATOM	28042	N1	C	A1328	262.481	118.325	9.526	1.00	84.91	A16S
ATOM	28043	C6	C	A1328	261.482	119.243	9.342	1.00	84.91	A16S
ATOM	28044	C2	C	A1328	262.177	116.967	9.685	1.00	84.91	A16S
ATOM	28045	O2	C	A1328	263.109	116.163	9.861	1.00	84.91	A16S
ATOM	28046	N3	C	A1328	260.885	116.568	9.640	1.00	84.91	A16S
ATOM	28047	C4	C	A1328	259.916	117.471	9.449	1.00	84.91	A16S
ATOM	28048	N4	C	A1328	258.654	117.037	9.400	1.00	84.91	A16S
ATOM	28049	C5	C	A1328	260.199	118.864	9.296	1.00	84.91	A16S
ATOM	28050	C2*	C	A1328	264.552	118.462	8.191	1.00	86.56	A16S
ATOM	28051	O2*	C	A1328	265.852	117.960	8.415	1.00	86.56	A16S
ATOM	28052	C3*	C	A1328	264.497	119.845	7.544	1.00	86.56	A16S
ATOM	28053	O3*	C	A1328	265.481	120.026	6.537	1.00	86.56	A16S
ATOM	28054	P	A	A1329	265.093	119.743	5.001	1.00	83.68	A16S
ATOM	28055	O1P	A	A1329	266.314	120.023	4.196	1.00	75.17	A16S
ATOM	28056	O2P	A	A1329	263.815	120.462	4.668	1.00	75.17	A16S
ATOM	28057	O5*	A	A1329	264.796	118.171	4.999	1.00	83.68	A16S
ATOM	28058	C5*	A	A1329	265.838	117.238	5.319	1.00	83.68	A16S
ATOM	28059	C4*	A	A1329	265.284	115.849	5.502	1.00	83.68	A16S
ATOM	28060	O4*	A	A1329	264.402	115.822	6.651	1.00	83.68	A16S
ATOM	28061	C1*	A	A1329	263.430	114.793	6.481	1.00	83.68	A16S
ATOM	28062	N9	A	A1329	262.075	115.366	6.502	1.00	75.17	A16S
ATOM	28063	C4	A	A1329	260.913	114.624	6.540	1.00	75.17	A16S
ATOM	28064	N3	A	A1329	260.800	113.286	6.629	1.00	75.17	A16S
ATOM	28065	C2	A	A1329	259.525	112.919	6.591	1.00	75.17	A16S
ATOM	28066	N1	A	A1329	258.430	113.677	6.471	1.00	75.17	A16S
ATOM	28067	C6	A	A1329	258.577	115.017	6.374	1.00	75.17	A16S
ATOM	28068	N6	A	A1329	257.488	115.772	6.222	1.00	75.17	A16S
ATOM	28069	C5	A	A1329	259.879	115.537	6.423	1.00	75.17	A16S
ATOM	28070	N7	A	A1329	260.370	116.837	6.363	1.00	75.17	A16S
ATOM	28071	C8	A	A1329	261.674	116.686	6.424	1.00	75.17	A16S
ATOM	28072	C2*	A	A1329	263.677	114.152	5.117	1.00	83.68	A16S
ATOM	28073	O2*	A	A1329	264.404	112.950	5.259	1.00	83.68	A16S
ATOM	28074	C3*	A	A1329	264.428	115.260	4.392	1.00	83.68	A16S
ATOM	28075	O3*	A	A1329	265.132	114.772	3.257	1.00	83.68	A16S
ATOM	28076	P	U	A1330	264.420	114.845	1.815	1.00	97.58	A16S
ATOM	28077	O1P	U	A1330	265.377	114.424	0.749	1.00	74.19	A16S
ATOM	28078	O2P	U	A1330	263.768	116.189	1.721	1.00	74.19	A16S
ATOM	28079	O5*	U	A1330	263.266	113.750	1.927	1.00	97.58	A16S
ATOM	28080	C5*	U	A1330	263.557	112.397	2.325	1.00	97.58	A16S
ATOM	28081	C4*	U	A1330	262.277	111.598	2.442	1.00	97.58	A16S
ATOM	28082	O4*	U	A1330	261.447	112.185	3.474	1.00	97.58	A16S
ATOM	28083	C1*	U	A1330	260.078	112.082	3.109	1.00	97.58	A16S
ATOM	28084	N1	U	A1330	259.502	113.438	3.054	1.00	74.19	A16S
ATOM	28085	C6	U	A1330	260.296	114.549	2.888	1.00	74.19	A16S
ATOM	28086	C2	U	A1330	258.124	113.567	3.194	1.00	74.19	A16S
ATOM	28087	O2	U	A1330	257.371	112.606	3.295	1.00	74.19	A16S
ATOM	28088	N3	U	A1330	257.661	114.861	3.206	1.00	74.19	A16S
ATOM	28089	C4	U	A1330	258.410	116.013	3.085	1.00	74.19	A16S
ATOM	28090	O4	U	A1330	257.877	117.104	3.298	1.00	74.19	A16S
ATOM	28091	C5	U	A1330	259.810	115.793	2.896	1.00	74.19	A16S
ATOM	28092	C2*	U	A1330	260.003	111.319	1.788	1.00	97.58	A16S
ATOM	28093	O2*	U	A1330	259.773	109.949	2.058	1.00	97.58	A16S
ATOM	28094	C3*	U	A1330	261.386	111.584	1.209	1.00	97.58	A16S
ATOM	28095	O3*	U	A1330	261.769	110.580	0.292	1.00	97.58	A16S
ATOM	28096	P	G	A1331	261.983	110.964	-1.247	1.00	96.97	A16S
ATOM	28097	O1P	G	A1331	262.053	109.672	-1.975	1.00	88.85	A16S
ATOM	28098	O2P	G	A1331	263.067	111.965	-1.390	1.00	88.85	A16S



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ATOM	28099	O5*	G	A1331	260.655	111.719	-1.655	1.00	96.97	A16S
ATOM	28100	C5*	G	A1331	259.395	111.099	-1.472	1.00	96.97	A16S
ATOM	28101	C4*	G	A1331	258.301	112.087	-1.734	1.00	96.97	A16S
ATOM	28102	O4*	G	A1331	258.461	113.217	-0.861	1.00	96.97	A16S
ATOM	28103	C1*	G	A1331	257.668	114.248	-1.370	1.00	96.97	A16S
ATOM	28104	N9	G	A1331	258.139	115.535	-0.878	1.00	88.85	A16S
ATOM	28105	C4	G	A1331	257.360	116.473	-0.235	1.00	88.85	A16S
ATOM	28106	N3	G	A1331	256.039	116.349	0.059	1.00	88.85	A16S
ATOM	28107	C2	G	A1331	255.558	117.432	0.658	1.00	88.85	A16S
ATOM	28108	N2	G	A1331	254.262	117.479	1.022	1.00	88.85	A16S
ATOM	28109	N1	G	A1331	256.315	118.547	0.942	1.00	88.85	A16S
ATOM	28110	C6	G	A1331	257.672	118.693	0.651	1.00	88.85	A16S
ATOM	28111	O6	G	A1331	258.256	119.744	0.946	1.00	88.85	A16S
ATOM	28112	C5	G	A1331	258.200	117.535	0.014	1.00	88.85	A16S
ATOM	28113	N7	G	A1331	259.484	117.261	-0.439	1.00	88.85	A16S
ATOM	28114	C8	G	A1331	259.399	116.064	-0.956	1.00	88.85	A16S
ATOM	28115	C2*	G	A1331	257.474	114.020	-2.875	1.00	96.97	A16S
ATOM	28116	O2*	G	A1331	256.093	113.836	-3.069	1.00	96.97	A16S
ATOM	28117	C3*	G	A1331	258.241	112.714	-3.122	1.00	96.97	A16S
ATOM	28118	O3*	G	A1331	257.531	111.748	-3.909	1.00	96.97	A16S
ATOM	28119	P	A	A1332	256.905	112.111	-5.358	1.00	90.16	A16S
ATOM	28120	O1P	A	A1332	257.769	111.508	-6.423	1.00	62.34	A16S
ATOM	28121	O2P	A	A1332	256.502	113.546	-5.489	1.00	62.34	A16S
ATOM	28122	O5*	A	A1332	255.580	111.219	-5.323	1.00	90.16	A16S
ATOM	28123	C5*	A	A1332	255.611	109.872	-4.770	1.00	90.16	A16S
ATOM	28124	C4*	A	A1332	254.212	109.394	-4.459	1.00	90.16	A16S
ATOM	28125	O4*	A	A1332	253.712	110.062	-3.279	1.00	90.16	A16S
ATOM	28126	C1*	A	A1332	252.335	110.351	-3.436	1.00	90.16	A16S
ATOM	28127	N9	A	A1332	252.164	111.805	-3.330	1.00	62.34	A16S
ATOM	28128	C4	A	A1332	250.995	112.523	-3.419	1.00	62.34	A16S
ATOM	28129	N3	A	A1332	249.757	112.046	-3.624	1.00	62.34	A16S
ATOM	28130	C2	A	A1332	248.873	113.044	-3.653	1.00	62.34	A16S
ATOM	28131	N1	A	A1332	249.075	114.363	-3.517	1.00	62.34	A16S
ATOM	28132	C6	A	A1332	250.333	114.804	-3.325	1.00	62.34	A16S
ATOM	28133	N6	A	A1332	250.540	116.115	-3.214	1.00	62.34	A16S
ATOM	28134	C5	A	A1332	251.354	113.850	-3.263	1.00	62.34	A16S
ATOM	28135	N7	A	A1332	252.718	113.968	-3.077	1.00	62.34	A16S
ATOM	28136	C8	A	A1332	253.150	112.732	-3.124	1.00	62.34	A16S
ATOM	28137	C2*	A	A1332	251.885	109.757	-4.775	1.00	90.16	A16S
ATOM	28138	O2*	A	A1332	251.325	108.474	-4.585	1.00	90.16	A16S
ATOM	28139	C3*	A	A1332	253.194	109.686	-5.543	1.00	90.16	A16S
ATOM	28140	O3*	A	A1332	253.186	108.662	-6.526	1.00	90.16	A16S
ATOM	28141	P	A	A1333	253.077	109.056	-8.082	1.00	86.73	A16S
ATOM	28142	O1P	A	A1333	253.461	107.840	-8.858	1.00	57.96	A16S
ATOM	28143	O2P	A	A1333	253.814	110.339	-8.311	1.00	57.96	A16S
ATOM	28144	O5*	A	A1333	251.520	109.350	-8.285	1.00	86.73	A16S
ATOM	28145	C5*	A	A1333	250.523	108.349	-7.974	1.00	86.73	A16S
ATOM	28146	C4*	A	A1333	249.155	108.982	-7.864	1.00	86.73	A16S
ATOM	28147	O4*	A	A1333	249.124	109.862	-6.711	1.00	86.73	A16S
ATOM	28148	C1*	A	A1333	248.274	110.965	-6.977	1.00	86.73	A16S
ATOM	28149	N9	A	A1333	249.040	112.204	-6.845	1.00	57.96	A16S
ATOM	28150	C4	A	A1333	248.515	113.472	-6.783	1.00	57.96	A16S
ATOM	28151	N3	A	A1333	247.217	113.821	-6.817	1.00	57.96	A16S
ATOM	28152	C2	A	A1333	247.079	115.146	-6.736	1.00	57.96	A16S
ATOM	28153	N1	A	A1333	248.020	116.092	-6.628	1.00	57.96	A16S
ATOM	28154	C6	A	A1333	249.318	115.705	-6.587	1.00	57.96	A16S
ATOM	28155	N6	A	A1333	250.264	116.647	-6.462	1.00	57.96	A16S
ATOM	28156	C5	A	A1333	249.595	114.323	-6.675	1.00	57.96	A16S
ATOM	28157	N7	A	A1333	250.781	113.606	-6.667	1.00	57.96	A16S
ATOM	28158	C8	A	A1333	250.396	112.359	-6.769	1.00	57.96	A16S
ATOM	28159	C2*	A	A1333	247.702	110.785	-8.382	1.00	86.73	A16S
ATOM	28160	O2*	A	A1333	246.438	110.171	-8.286	1.00	86.73	A16S
ATOM	28161	C3*	A	A1333	248.728	109.867	-9.024	1.00	86.73	A16S
ATOM	28162	O3*	A	A1333	248.146	109.136	-10.088	1.00	86.73	A16S
ATOM	28163	P	G	A1334	248.324	109.659	-11.602	1.00	69.38	A16S
ATOM	28164	O1P	G	A1334	247.357	108.924	-12.475	1.00	64.64	A16S
ATOM	28165	O2P	G	A1334	249.781	109.604	-11.918	1.00	64.64	A16S
ATOM	28166	O5*	G	A1334	247.901	111.199	-11.561	1.00	69.38	A16S
ATOM	28167	C5*	G	A1334	246.526	111.584	-11.407	1.00	69.38	A16S
ATOM	28168	C4*	G	A1334	246.428	113.050	-11.078	1.00	69.38	A16S
ATOM	28169	O4*	G	A1334	247.255	113.324	-9.924	1.00	69.38	A16S
ATOM	28170	C1*	G	A1334	247.819	114.620	-10.038	1.00	69.38	A16S
ATOM	28171	N9	G	A1334	249.277	114.522	-9.975	1.00	64.64	A16S
ATOM	28172	C4	G	A1334	250.153	115.578	-9.919	1.00	64.64	A16S
ATOM	28173	N3	G	A1334	249.818	116.879	-9.865	1.00	64.64	A16S
ATOM	28174	C2	G	A1334	250.876	117.655	-9.830	1.00	64.64	A16S
ATOM	28175	N2	G	A1334	250.726	118.974	-9.742	1.00	64.64	A16S



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ATOM	28176	N1	G	A1334	252.157	117.194	-9.872	1.00	64.64	A16S
ATOM	28177	C6	G	A1334	252.522	115.857	-9.943	1.00	64.64	A16S
ATOM	28178	O6	G	A1334	253.713	115.544	-10.007	1.00	64.64	A16S
ATOM	28179	C5	G	A1334	251.405	115.016	-9.948	1.00	64.64	A16S
ATOM	28180	N7	G	A1334	251.327	113.632	-9.989	1.00	64.64	A16S
ATOM	28181	C8	G	A1334	250.046	113.383	-9.996	1.00	64.64	A16S
ATOM	28182	C2*	G	A1334	247.338	115.230	-11.355	1.00	69.38	A16S
ATOM	28183	O2*	G	A1334	246.259	116.101	-11.101	1.00	69.38	A16S
ATOM	28184	C3*	G	A1334	246.940	113.994	-12.149	1.00	69.38	A16S
ATOM	28185	O3*	G	A1334	245.910	114.300	-13.075	1.00	69.38	A16S
ATOM	28186	P	C	A1335	246.122	113.979	-14.626	1.00	77.46	A16S
ATOM	28187	O1P	C	A1335	244.862	114.315	-15.349	1.00	75.18	A16S
ATOM	28188	O2P	C	A1335	246.680	112.592	-14.692	1.00	75.18	A16S
ATOM	28189	O5*	C	A1335	247.210	115.044	-15.087	1.00	77.46	A16S
ATOM	28190	C5*	C	A1335	246.891	116.438	-15.098	1.00	77.46	A16S
ATOM	28191	C4*	C	A1335	247.695	117.152	-16.154	1.00	77.46	A16S
ATOM	28192	O4*	C	A1335	249.087	117.066	-15.848	1.00	77.46	A16S
ATOM	28193	C1*	C	A1335	249.823	117.280	-17.027	1.00	77.46	A16S
ATOM	28194	N1	C	A1335	251.057	116.488	-16.917	1.00	75.18	A16S
ATOM	28195	C6	C	A1335	250.994	115.174	-16.553	1.00	75.18	A16S
ATOM	28196	C2	C	A1335	252.311	117.104	-17.157	1.00	75.18	A16S
ATOM	28197	O2	C	A1335	252.361	118.302	-17.519	1.00	75.18	A16S
ATOM	28198	N3	C	A1335	253.431	116.375	-16.988	1.00	75.18	A16S
ATOM	28199	C4	C	A1335	253.347	115.093	-16.616	1.00	75.18	A16S
ATOM	28200	N4	C	A1335	254.481	114.411	-16.464	1.00	75.18	A16S
ATOM	28201	C5	C	A1335	252.100	114.451	-16.388	1.00	75.18	A16S
ATOM	28202	C2*	C	A1335	248.905	117.016	-18.236	1.00	77.46	A16S
ATOM	28203	O2*	C	A1335	248.873	118.109	-19.143	1.00	77.46	A16S
ATOM	28204	C3*	C	A1335	247.544	116.691	-17.597	1.00	77.46	A16S
ATOM	28205	O3*	C	A1335	246.545	117.593	-18.073	1.00	77.46	A16S
ATOM	28206	P	C	A1336	245.798	117.353	-19.472	1.00	68.73	A16S
ATOM	28207	O1P	C	A1336	245.848	115.890	-19.769	1.00	89.86	A16S
ATOM	28208	O2P	C	A1336	246.333	118.340	-20.462	1.00	89.86	A16S
ATOM	28209	O5*	C	A1336	244.293	117.748	-19.127	1.00	68.73	A16S
ATOM	28210	C5*	C	A1336	243.521	116.942	-18.207	1.00	68.73	A16S
ATOM	28211	C4*	C	A1336	242.448	117.769	-17.525	1.00	68.73	A16S
ATOM	28212	O4*	C	A1336	243.007	118.556	-16.442	1.00	68.73	A16S
ATOM	28213	C1*	C	A1336	242.609	119.905	-16.578	1.00	68.73	A16S
ATOM	28214	N1	C	A1336	243.706	120.772	-16.092	1.00	89.86	A16S
ATOM	28215	C6	C	A1336	244.981	120.289	-15.997	1.00	89.86	A16S
ATOM	28216	C2	C	A1336	243.428	122.106	-15.736	1.00	89.86	A16S
ATOM	28217	O2	C	A1336	242.255	122.530	-15.799	1.00	89.86	A16S
ATOM	28218	N3	C	A1336	244.444	122.896	-15.332	1.00	89.86	A16S
ATOM	28219	C4	C	A1336	245.688	122.411	-15.274	1.00	89.86	A16S
ATOM	28220	N4	C	A1336	246.667	123.235	-14.912	1.00	89.86	A16S
ATOM	28221	C5	C	A1336	245.987	121.064	-15.596	1.00	89.86	A16S
ATOM	28222	C2*	C	A1336	242.255	120.087	-18.056	1.00	68.73	A16S
ATOM	28223	O2*	C	A1336	241.343	121.151	-18.232	1.00	68.73	A16S
ATOM	28224	C3*	C	A1336	241.652	118.728	-18.397	1.00	68.73	A16S
ATOM	28225	O3*	C	A1336	240.287	118.689	-17.988	1.00	68.73	A16S
ATOM	28226	P	G	A1337	239.126	118.506	-19.090	1.00	72.30	A16S
ATOM	28227	O1P	G	A1337	239.749	118.384	-20.451	1.00	73.82	A16S
ATOM	28228	O2P	G	A1337	238.121	119.579	-18.845	1.00	73.82	A16S
ATOM	28229	O5*	G	A1337	238.471	117.104	-18.705	1.00	72.30	A16S
ATOM	28230	C5*	G	A1337	238.998	115.858	-19.213	1.00	72.30	A16S
ATOM	28231	C4*	G	A1337	238.807	114.767	-18.190	1.00	72.30	A16S
ATOM	28232	O4*	G	A1337	239.693	115.043	-17.085	1.00	72.30	A16S
ATOM	28233	C1*	G	A1337	238.993	114.946	-15.869	1.00	72.30	A16S
ATOM	28234	N9	G	A1337	238.997	116.291	-15.305	1.00	73.82	A16S
ATOM	28235	C4	G	A1337	240.086	116.910	-14.761	1.00	73.82	A16S
ATOM	28236	N3	G	A1337	241.306	116.359	-14.607	1.00	73.82	A16S
ATOM	28237	C2	G	A1337	242.172	117.212	-14.092	1.00	73.82	A16S
ATOM	28238	N2	G	A1337	243.450	116.823	-13.884	1.00	73.82	A16S
ATOM	28239	N1	G	A1337	241.855	118.506	-13.747	1.00	73.82	A16S
ATOM	28240	C6	G	A1337	240.601	119.088	-13.894	1.00	73.82	A16S
ATOM	28241	O6	G	A1337	240.424	120.264	-13.552	1.00	73.82	A16S
ATOM	28242	C5	G	A1337	239.669	118.180	-14.450	1.00	73.82	A16S
ATOM	28243	N7	G	A1337	238.331	118.345	-14.759	1.00	73.82	A16S
ATOM	28244	C8	G	A1337	237.971	117.197	-15.255	1.00	73.82	A16S
ATOM	28245	C2*	G	A1337	237.630	114.309	-16.165	1.00	72.30	A16S
ATOM	28246	O2*	G	A1337	237.742	112.910	-16.000	1.00	72.30	A16S
ATOM	28247	C3*	G	A1337	237.399	114.722	-17.614	1.00	72.30	A16S
ATOM	28248	O3*	G	A1337	236.617	113.755	-18.312	1.00	72.30	A16S
ATOM	28249	P	G	A1338	235.907	114.134	-19.712	1.00	67.87	A16S
ATOM	28250	O1P	G	A1338	234.958	115.279	-19.517	1.00	78.80	A16S
ATOM	28251	O2P	G	A1338	236.968	114.244	-20.748	1.00	78.80	A16S
ATOM	28252	O5*	G	A1338	235.056	112.820	-20.024	1.00	67.87	A16S



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ATOM	28253	C5*	G	A1338	235.549	111.815	-20.936	1.00	67.87	A16S
ATOM	28254	C4*	G	A1338	234.658	110.594	-20.921	1.00	67.87	A16S
ATOM	28255	O4*	G	A1338	234.963	109.756	-19.783	1.00	67.87	A16S
ATOM	28256	C1*	G	A1338	233.775	109.151	-19.310	1.00	67.87	A16S
ATOM	28257	N9	G	A1338	233.599	109.517	-17.905	1.00	78.80	A16S
ATOM	28258	C4	G	A1338	232.959	108.773	-16.945	1.00	78.80	A16S
ATOM	28259	N3	G	A1338	232.369	107.580	-17.136	1.00	78.80	A16S
ATOM	28260	C2	G	A1338	231.842	107.103	-16.024	1.00	78.80	A16S
ATOM	28261	N2	G	A1338	231.209	105.928	-16.036	1.00	78.80	A16S
ATOM	28262	N1	G	A1338	231.894	107.737	-14.817	1.00	78.80	A16S
ATOM	28263	C6	G	A1338	232.501	108.965	-14.590	1.00	78.80	A16S
ATOM	28264	O6	G	A1338	232.501	109.446	-13.445	1.00	78.80	A16S
ATOM	28265	C5	G	A1338	233.066	109.500	-15.785	1.00	78.80	A16S
ATOM	28266	N7	G	A1338	233.748	110.688	-16.008	1.00	78.80	A16S
ATOM	28267	C8	G	A1338	234.044	110.655	-17.277	1.00	78.80	A16S
ATOM	28268	C2*	G	A1338	232.623	109.576	-20.228	1.00	67.87	A16S
ATOM	28269	O2*	G	A1338	232.408	108.558	-21.185	1.00	67.87	A16S
ATOM	28270	C3*	G	A1338	233.167	110.865	-20.837	1.00	67.87	A16S
ATOM	28271	O3*	G	A1338	232.635	111.146	-22.128	1.00	67.87	A16S
ATOM	28272	P	A	A1339	231.529	112.306	-22.300	1.00	68.09	A16S
ATOM	28273	O1P	A	A1339	231.396	112.620	-23.753	1.00	80.04	A16S
ATOM	28274	O2P	A	A1339	231.860	113.409	-21.352	1.00	80.04	A16S
ATOM	28275	O5*	A	A1339	230.183	111.574	-21.842	1.00	68.09	A16S
ATOM	28276	C5*	A	A1339	229.642	110.486	-22.621	1.00	68.09	A16S
ATOM	28277	C4*	A	A1339	228.695	109.652	-21.798	1.00	68.09	A16S
ATOM	28278	O4*	A	A1339	229.424	109.052	-20.703	1.00	68.09	A16S
ATOM	28279	C1*	A	A1339	228.573	108.942	-19.571	1.00	68.09	A16S
ATOM	28280	N9	A	A1339	229.132	109.728	-18.473	1.00	80.04	A16S
ATOM	28281	C4	A	A1339	229.045	109.437	-17.135	1.00	80.04	A16S
ATOM	28282	N3	A	A1339	228.487	108.358	-16.569	1.00	80.04	A16S
ATOM	28283	C2	A	A1339	228.555	108.436	-15.247	1.00	80.04	A16S
ATOM	28284	N1	A	A1339	229.073	109.397	-14.486	1.00	80.04	A16S
ATOM	28285	C6	A	A1339	229.619	110.469	-15.092	1.00	80.04	A16S
ATOM	28286	N6	A	A1339	230.119	111.447	-14.340	1.00	80.04	A16S
ATOM	28287	C5	A	A1339	229.620	110.499	-16.483	1.00	80.04	A16S
ATOM	28288	N7	A	A1339	230.096	111.430	-17.388	1.00	80.04	A16S
ATOM	28289	C8	A	A1339	229.793	110.920	-18.551	1.00	80.04	A16S
ATOM	28290	C2*	A	A1339	227.200	109.495	-19.958	1.00	68.09	A16S
ATOM	28291	O2*	A	A1339	226.324	108.435	-20.272	1.00	68.09	A16S
ATOM	28292	C3*	A	A1339	227.552	110.398	-21.132	1.00	68.09	A16S
ATOM	28293	O3*	A	A1339	226.452	110.612	-21.998	1.00	68.09	A16S
ATOM	28294	P	A	A1340	225.919	112.109	-22.238	1.00	74.68	A16S
ATOM	28295	O1P	A	A1340	224.741	112.035	-23.135	1.00	85.35	A16S
ATOM	28296	O2P	A	A1340	227.093	112.937	-22.639	1.00	85.35	A16S
ATOM	28297	O5*	A	A1340	225.431	112.595	-20.797	1.00	74.68	A16S
ATOM	28298	C5*	A	A1340	224.401	111.876	-20.091	1.00	74.68	A16S
ATOM	28299	C4*	A	A1340	224.487	112.114	-18.590	1.00	74.68	A16S
ATOM	28300	O4*	A	A1340	225.805	111.746	-18.091	1.00	74.68	A16S
ATOM	28301	C1*	A	A1340	226.150	112.576	-16.992	1.00	74.68	A16S
ATOM	28302	N9	A	A1340	227.265	113.441	-17.398	1.00	85.35	A16S
ATOM	28303	C4	A	A1340	228.063	114.203	-16.573	1.00	85.35	A16S
ATOM	28304	N3	A	A1340	228.035	114.261	-15.233	1.00	85.35	A16S
ATOM	28305	C2	A	A1340	228.926	115.140	-14.782	1.00	85.35	A16S
ATOM	28306	N1	A	A1340	229.777	115.910	-15.465	1.00	85.35	A16S
ATOM	28307	C6	A	A1340	229.784	115.825	-16.811	1.00	85.35	A16S
ATOM	28308	N6	A	A1340	230.635	116.588	-17.495	1.00	85.35	A16S
ATOM	28309	C5	A	A1340	228.887	114.930	-17.413	1.00	85.35	A16S
ATOM	28310	N7	A	A1340	228.648	114.605	-18.739	1.00	85.35	A16S
ATOM	28311	C8	A	A1340	227.692	113.711	-18.677	1.00	85.35	A16S
ATOM	28312	C2*	A	A1340	224.925	113.444	-16.689	1.00	74.68	A16S
ATOM	28313	O2*	A	A1340	224.114	112.813	-15.709	1.00	74.68	A16S
ATOM	28314	C3*	A	A1340	224.259	113.524	-18.059	1.00	74.68	A16S
ATOM	28315	O3*	A	A1340	222.875	113.865	-17.954	1.00	74.68	A16S
ATOM	28316	P	U	A1341	222.411	115.405	-18.111	1.00	71.77	A16S
ATOM	28317	O1P	U	A1341	220.926	115.403	-18.038	1.00	82.44	A16S
ATOM	28318	O2P	U	A1341	223.091	116.019	-19.284	1.00	82.44	A16S
ATOM	28319	O5*	U	A1341	222.984	116.124	-16.814	1.00	71.77	A16S
ATOM	28320	C5*	U	A1341	222.707	115.611	-15.505	1.00	71.77	A16S
ATOM	28321	C4*	U	A1341	223.533	116.342	-14.479	1.00	71.77	A16S
ATOM	28322	O4*	U	A1341	224.935	116.069	-14.726	1.00	71.77	A16S
ATOM	28323	C1*	U	A1341	225.702	117.233	-14.462	1.00	71.77	A16S
ATOM	28324	N1	U	A1341	226.358	117.648	-15.712	1.00	82.44	A16S
ATOM	28325	C6	U	A1341	225.868	117.266	-16.937	1.00	82.44	A16S
ATOM	28326	C2	U	A1341	227.492	118.429	-15.620	1.00	82.44	A16S
ATOM	28327	O2	U	A1341	227.956	118.813	-14.558	1.00	82.44	A16S
ATOM	28328	N3	U	A1341	228.069	118.754	-16.820	1.00	82.44	A16S
ATOM	28329	C4	U	A1341	227.639	118.390	-18.071	1.00	82.44	A16S



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ATOM	28330	O4	U	A1341	228.293	118.728	-19.054	1.00	82.44	A16S
ATOM	28331	C5	U	A1341	226.453	117.600	-18.086	1.00	82.44	A16S
ATOM	28332	C2*	U	A1341	224.753	118.294	-13.906	1.00	71.77	A16S
ATOM	28333	O2*	U	A1341	224.701	118.210	-12.492	1.00	71.77	A16S
ATOM	28334	C3*	U	A1341	223.430	117.861	-14.509	1.00	71.77	A16S
ATOM	28335	O3*	U	A1341	222.351	118.365	-13.742	1.00	71.77	A16S
ATOM	28336	P	C	A1342	221.905	119.895	-13.932	1.00	74.00	A16S
ATOM	28337	O1P	C	A1342	220.521	119.994	-13.391	1.00	95.70	A16S
ATOM	28338	O2P	C	A1342	222.173	120.300	-15.340	1.00	95.70	A16S
ATOM	28339	O5*	C	A1342	222.891	120.727	-12.986	1.00	74.00	A16S
ATOM	28340	C5*	C	A1342	222.877	120.565	-11.542	1.00	74.00	A16S
ATOM	28341	C4*	C	A1342	223.774	121.596	-10.869	1.00	74.00	A16S
ATOM	28342	O4*	C	A1342	225.164	121.363	-11.231	1.00	74.00	A16S
ATOM	28343	C1*	C	A1342	225.857	122.603	-11.307	1.00	74.00	A16S
ATOM	28344	N1	C	A1342	226.320	122.825	-12.691	1.00	95.70	A16S
ATOM	28345	C6	C	A1342	225.715	122.203	-13.748	1.00	95.70	A16S
ATOM	28346	C2	C	A1342	227.378	123.717	-12.912	1.00	95.70	A16S
ATOM	28347	O2	C	A1342	227.932	124.247	-11.936	1.00	95.70	A16S
ATOM	28348	N3	C	A1342	227.768	123.980	-14.181	1.00	95.70	A16S
ATOM	28349	C4	C	A1342	227.150	123.387	-15.204	1.00	95.70	A16S
ATOM	28350	N4	C	A1342	227.547	123.694	-16.443	1.00	95.70	A16S
ATOM	28351	C5	C	A1342	226.092	122.455	-15.007	1.00	95.70	A16S
ATOM	28352	C2*	C	A1342	224.881	123.703	-10.904	1.00	74.00	A16S
ATOM	28353	O2*	C	A1342	225.065	123.982	-9.536	1.00	74.00	A16S
ATOM	28354	C3*	C	A1342	223.536	123.059	-11.223	1.00	74.00	A16S
ATOM	28355	O3*	C	A1342	222.478	123.645	-10.476	1.00	74.00	A16S
ATOM	28356	P	G	A1343	221.826	125.034	-10.971	1.00	79.36	A16S
ATOM	28357	O1P	G	A1343	220.623	125.270	-10.141	1.00	71.92	A16S
ATOM	28358	O2P	G	A1343	221.698	125.025	-12.450	1.00	71.92	A16S
ATOM	28359	O5*	G	A1343	222.918	126.131	-10.578	1.00	79.36	A16S
ATOM	28360	C5*	G	A1343	223.314	126.355	-9.193	1.00	79.36	A16S
ATOM	28361	C4*	G	A1343	224.338	127.471	-9.112	1.00	79.36	A16S
ATOM	28362	O4*	G	A1343	225.555	127.054	-9.786	1.00	79.36	A16S
ATOM	28363	C1*	G	A1343	226.111	128.146	-10.507	1.00	79.36	A16S
ATOM	28364	N9	G	A1343	226.148	127.772	-11.918	1.00	71.92	A16S
ATOM	28365	C4	G	A1343	226.972	128.279	-12.889	1.00	71.92	A16S
ATOM	28366	N3	G	A1343	227.931	129.211	-12.713	1.00	71.92	A16S
ATOM	28367	C2	G	A1343	228.562	129.491	-13.842	1.00	71.92	A16S
ATOM	28368	N2	G	A1343	229.561	130.378	-13.857	1.00	71.92	A16S
ATOM	28369	N1	G	A1343	228.260	128.914	-15.044	1.00	71.92	A16S
ATOM	28370	C6	G	A1343	227.270	127.958	-15.246	1.00	71.92	A16S
ATOM	28371	O6	G	A1343	227.067	127.508	-16.384	1.00	71.92	A16S
ATOM	28372	C5	G	A1343	226.605	127.637	-14.046	1.00	71.92	A16S
ATOM	28373	N7	G	A1343	225.587	126.734	-13.807	1.00	71.92	A16S
ATOM	28374	C8	G	A1343	225.349	126.847	-12.535	1.00	71.92	A16S
ATOM	28375	C2*	G	A1343	225.251	129.385	-10.225	1.00	79.36	A16S
ATOM	28376	O2*	G	A1343	225.808	130.196	-9.206	1.00	79.36	A16S
ATOM	28377	C3*	G	A1343	223.927	128.754	-9.818	1.00	79.36	A16S
ATOM	28378	O3*	G	A1343	223.156	129.598	-8.986	1.00	79.36	A16S
ATOM	28379	P	C	A1344	221.928	130.408	-9.623	1.00	65.96	A16S
ATOM	28380	O1P	C	A1344	221.006	130.793	-8.510	1.00	77.81	A16S
ATOM	28381	O2P	C	A1344	221.406	129.616	-10.785	1.00	77.81	A16S
ATOM	28382	O5*	C	A1344	222.606	131.722	-10.204	1.00	65.96	A16S
ATOM	28383	C5*	C	A1344	223.270	132.651	-9.337	1.00	65.96	A16S
ATOM	28384	C4*	C	A1344	224.251	133.467	-10.126	1.00	65.96	A16S
ATOM	28385	O4*	C	A1344	225.234	132.568	-10.698	1.00	65.96	A16S
ATOM	28386	C1*	C	A1344	225.608	133.030	-11.988	1.00	65.96	A16S
ATOM	28387	N1	C	A1344	225.283	132.006	-13.005	1.00	77.81	A16S
ATOM	28388	C6	C	A1344	224.305	131.072	-12.795	1.00	77.81	A16S
ATOM	28389	C2	C	A1344	225.995	132.019	-14.216	1.00	77.81	A16S
ATOM	28390	O2	C	A1344	226.897	132.854	-14.377	1.00	77.81	A16S
ATOM	28391	N3	C	A1344	225.685	131.124	-15.174	1.00	77.81	A16S
ATOM	28392	C4	C	A1344	224.721	130.234	-14.965	1.00	77.81	A16S
ATOM	28393	N4	C	A1344	224.442	129.389	-15.951	1.00	77.81	A16S
ATOM	28394	C5	C	A1344	223.997	130.175	-13.738	1.00	77.81	A16S
ATOM	28395	C2*	C	A1344	224.861	134.333	-12.250	1.00	65.96	A16S
ATOM	28396	O2*	C	A1344	225.725	135.388	-11.912	1.00	65.96	A16S
ATOM	28397	C3*	C	A1344	223.659	134.195	-11.323	1.00	65.96	A16S
ATOM	28398	O3*	C	A1344	223.081	135.446	-10.965	1.00	65.96	A16S
ATOM	28399	P	U	A1345	222.067	136.181	-11.980	1.00	74.46	A16S
ATOM	28400	O1P	U	A1345	221.605	137.431	-11.331	1.00	79.63	A16S
ATOM	28401	O2P	U	A1345	221.072	135.212	-12.490	1.00	79.63	A16S
ATOM	28402	O5*	U	A1345	222.986	136.618	-13.196	1.00	74.46	A16S
ATOM	28403	C5*	U	A1345	223.939	137.666	-13.036	1.00	74.46	A16S
ATOM	28404	C4*	U	A1345	223.673	138.736	-14.047	1.00	74.46	A16S
ATOM	28405	O4*	U	A1345	223.845	138.161	-15.371	1.00	74.46	A16S
ATOM	28406	C1*	U	A1345	222.700	138.439	-16.129	1.00	74.46	A16S



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ATOM	28407	N1	U	A1345	222.563	137.466	-17.222	1.00	79.63	A16S
ATOM	28408	C6	U	A1345	221.787	136.335	-17.124	1.00	79.63	A16S
ATOM	28409	C2	U	A1345	223.224	137.768	-18.385	1.00	79.63	A16S
ATOM	28410	O2	U	A1345	223.984	138.712	-18.479	1.00	79.63	A16S
ATOM	28411	N3	U	A1345	222.977	136.920	-19.432	1.00	79.63	A16S
ATOM	28412	C4	U	A1345	222.176	135.804	-19.426	1.00	79.63	A16S
ATOM	28413	O4	U	A1345	221.977	135.198	-20.483	1.00	79.63	A16S
ATOM	28414	C5	U	A1345	221.575	135.517	-18.161	1.00	79.63	A16S
ATOM	28415	C2*	U	A1345	221.554	138.587	-15.133	1.00	74.46	A16S
ATOM	28416	O2*	U	A1345	220.515	139.344	-15.723	1.00	74.46	A16S
ATOM	28417	C3*	U	A1345	222.261	139.327	-14.004	1.00	74.46	A16S
ATOM	28418	O3*	U	A1345	222.315	140.705	-14.384	1.00	74.46	A16S
ATOM	28419	P	A	A1346	222.055	141.862	-13.298	1.00	94.26	A16S
ATOM	28420	O1P	A	A1346	221.526	141.282	-12.027	1.00	73.71	A16S
ATOM	28421	O2P	A	A1346	221.299	142.932	-13.999	1.00	73.71	A16S
ATOM	28422	O5*	A	A1346	223.514	142.419	-13.007	1.00	94.26	A16S
ATOM	28423	C5*	A	A1346	223.961	142.624	-11.670	1.00	94.26	A16S
ATOM	28424	C4*	A	A1346	225.237	143.408	-11.675	1.00	94.26	A16S
ATOM	28425	O4*	A	A1346	226.258	142.597	-12.297	1.00	94.26	A16S
ATOM	28426	C1*	A	A1346	227.221	143.446	-12.880	1.00	94.26	A16S
ATOM	28427	N9	A	A1346	227.680	142.892	-14.155	1.00	73.71	A16S
ATOM	28428	C4	A	A1346	228.797	143.320	-14.832	1.00	73.71	A16S
ATOM	28429	N3	A	A1346	229.630	144.310	-14.477	1.00	73.71	A16S
ATOM	28430	C2	A	A1346	230.593	144.463	-15.381	1.00	73.71	A16S
ATOM	28431	N1	A	A1346	230.810	143.785	-16.514	1.00	73.71	A16S
ATOM	28432	C6	A	A1346	229.963	142.786	-16.837	1.00	73.71	A16S
ATOM	28433	N6	A	A1346	230.195	142.104	-17.960	1.00	73.71	A16S
ATOM	28434	C5	A	A1346	228.885	142.530	-15.959	1.00	73.71	A16S
ATOM	28435	N7	A	A1346	227.838	141.623	-16.001	1.00	73.71	A16S
ATOM	28436	C8	A	A1346	227.153	141.881	-14.909	1.00	73.71	A16S
ATOM	28437	C2*	A	A1346	226.689	144.888	-12.890	1.00	94.26	A16S
ATOM	28438	O2*	A	A1346	227.471	145.665	-12.001	1.00	94.26	A16S
ATOM	28439	C3*	A	A1346	225.226	144.700	-12.488	1.00	94.26	A16S
ATOM	28440	O3*	A	A1346	224.525	145.805	-11.837	1.00	94.26	A16S
ATOM	28441	P	G	A1347	225.198	146.680	-10.633	1.00	80.71	A16S
ATOM	28442	O1P	G	A1347	224.053	147.430	-10.049	1.00	97.27	A16S
ATOM	28443	O2P	G	A1347	226.375	147.441	-11.118	1.00	97.27	A16S
ATOM	28444	O5*	G	A1347	225.656	145.610	-9.530	1.00	80.71	A16S
ATOM	28445	C5*	G	A1347	226.566	145.947	-8.433	1.00	80.71	A16S
ATOM	28446	C4*	G	A1347	227.890	145.230	-8.633	1.00	80.71	A16S
ATOM	28447	O4*	G	A1347	228.782	146.096	-9.367	1.00	80.71	A16S
ATOM	28448	C1*	G	A1347	230.065	145.545	-9.281	1.00	80.71	A16S
ATOM	28449	N9	G	A1347	231.096	146.550	-9.496	1.00	97.27	A16S
ATOM	28450	C4	G	A1347	232.069	146.475	-10.457	1.00	97.27	A16S
ATOM	28451	N3	G	A1347	232.250	145.452	-11.313	1.00	97.27	A16S
ATOM	28452	C2	G	A1347	233.240	145.680	-12.153	1.00	97.27	A16S
ATOM	28453	N2	G	A1347	233.553	144.761	-13.075	1.00	97.27	A16S
ATOM	28454	N1	G	A1347	233.994	146.823	-12.155	1.00	97.27	A16S
ATOM	28455	C6	G	A1347	233.825	147.891	-11.284	1.00	97.27	A16S
ATOM	28456	O6	G	A1347	234.553	148.888	-11.386	1.00	97.27	A16S
ATOM	28457	C5	G	A1347	232.766	147.652	-10.367	1.00	97.27	A16S
ATOM	28458	N7	G	A1347	232.266	148.439	-9.342	1.00	97.27	A16S
ATOM	28459	C8	G	A1347	231.281	147.738	-8.847	1.00	97.27	A16S
ATOM	28460	C2*	G	A1347	230.129	144.605	-8.083	1.00	80.71	A16S
ATOM	28461	O2*	G	A1347	230.193	143.340	-8.689	1.00	80.71	A16S
ATOM	28462	C3*	G	A1347	228.752	144.777	-7.447	1.00	80.71	A16S
ATOM	28463	O3*	G	A1347	228.178	143.551	-6.910	1.00	80.71	A16S
ATOM	28464	P	U	A1348	229.060	142.192	-6.628	1.00	69.47	A16S
ATOM	28465	O1P	U	A1348	228.598	141.685	-5.288	1.00	78.53	A16S
ATOM	28466	O2P	U	A1348	230.512	142.278	-6.873	1.00	78.53	A16S
ATOM	28467	O5*	U	A1348	228.461	141.177	-7.703	1.00	69.47	A16S
ATOM	28468	C5*	U	A1348	227.063	140.793	-7.619	1.00	69.47	A16S
ATOM	28469	C4*	U	A1348	226.707	139.821	-8.705	1.00	69.47	A16S
ATOM	28470	O4*	U	A1348	226.652	140.520	-9.967	1.00	69.47	A16S
ATOM	28471	C1*	U	A1348	227.232	139.716	-10.970	1.00	69.47	A16S
ATOM	28472	N1	U	A1348	228.372	140.455	-11.527	1.00	78.53	A16S
ATOM	28473	C6	U	A1348	228.975	141.460	-10.820	1.00	78.53	A16S
ATOM	28474	C2	U	A1348	228.811	140.114	-12.777	1.00	78.53	A16S
ATOM	28475	O2	U	A1348	228.324	139.218	-13.423	1.00	78.53	A16S
ATOM	28476	N3	U	A1348	229.856	140.861	-13.242	1.00	78.53	A16S
ATOM	28477	C4	U	A1348	230.502	141.873	-12.587	1.00	78.53	A16S
ATOM	28478	O4	U	A1348	231.462	142.421	-13.118	1.00	78.53	A16S
ATOM	28479	C5	U	A1348	229.997	142.156	-11.295	1.00	78.53	A16S
ATOM	28480	C2*	U	A1348	227.588	138.357	-10.352	1.00	69.47	A16S
ATOM	28481	O2*	U	A1348	226.507	137.486	-10.567	1.00	69.47	A16S
ATOM	28482	C3*	U	A1348	227.711	138.697	-8.875	1.00	69.47	A16S
ATOM	28483	O3*	U	A1348	227.322	137.607	-8.044	1.00	69.47	A16S



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ATOM	28484	P	A	A1349	228.444	136.705	-7.332	1.00	80.57	A16S
ATOM	28485	O1P	A	A1349	227.768	135.703	-6.467	1.00	88.95	A16S
ATOM	28486	O2P	A	A1349	229.455	137.619	-6.739	1.00	88.95	A16S
ATOM	28487	O5*	A	A1349	229.119	135.927	-8.548	1.00	80.57	A16S
ATOM	28488	C5*	A	A1349	228.392	134.891	-9.233	1.00	80.57	A16S
ATOM	28489	C4*	A	A1349	229.082	134.501	-10.521	1.00	80.57	A16S
ATOM	28490	O4*	A	A1349	229.132	135.644	-11.406	1.00	80.57	A16S
ATOM	28491	C1*	A	A1349	230.301	135.577	-12.195	1.00	80.57	A16S
ATOM	28492	N9	A	A1349	231.078	136.806	-11.998	1.00	88.95	A16S
ATOM	28493	C4	A	A1349	232.300	137.080	-12.568	1.00	88.95	A16S
ATOM	28494	N3	A	A1349	232.996	136.304	-13.416	1.00	88.95	A16S
ATOM	28495	C2	A	A1349	234.143	136.883	-13.742	1.00	88.95	A16S
ATOM	28496	N1	A	A1349	234.643	138.055	-13.341	1.00	88.95	A16S
ATOM	28497	C6	A	A1349	233.924	138.805	-12.484	1.00	88.95	A16S
ATOM	28498	N6	A	A1349	234.436	139.960	-12.068	1.00	88.95	A16S
ATOM	28499	C5	A	A1349	232.679	138.313	-12.074	1.00	88.95	A16S
ATOM	28500	N7	A	A1349	231.703	138.826	-11.234	1.00	88.95	A16S
ATOM	28501	C8	A	A1349	230.776	137.899	-11.223	1.00	88.95	A16S
ATOM	28502	C2*	A	A1349	231.051	134.296	-11.813	1.00	80.57	A16S
ATOM	28503	O2*	A	A1349	230.689	133.292	-12.734	1.00	80.57	A16S
ATOM	28504	C3*	A	A1349	230.516	134.011	-10.418	1.00	80.57	A16S
ATOM	28505	O3*	A	A1349	230.566	132.618	-10.112	1.00	80.57	A16S
ATOM	28506	P	A	A1350	231.613	132.082	-9.012	1.00	72.51	A16S
ATOM	28507	O1P	A	A1350	231.467	130.610	-8.855	1.00	88.97	A16S
ATOM	28508	O2P	A	A1350	231.492	132.946	-7.825	1.00	88.97	A16S
ATOM	28509	O5*	A	A1350	233.033	132.404	-9.655	1.00	72.51	A16S
ATOM	28510	C5*	A	A1350	233.438	131.798	-10.898	1.00	72.51	A16S
ATOM	28511	C4*	A	A1350	234.678	132.479	-11.444	1.00	72.51	A16S
ATOM	28512	O4*	A	A1350	234.340	133.811	-11.921	1.00	72.51	A16S
ATOM	28513	C1*	A	A1350	235.388	134.716	-11.595	1.00	72.51	A16S
ATOM	28514	N9	A	A1350	234.852	135.694	-10.639	1.00	88.97	A16S
ATOM	28515	C4	A	A1350	235.488	136.806	-10.138	1.00	88.97	A16S
ATOM	28516	N3	A	A1350	236.725	137.235	-10.423	1.00	88.97	A16S
ATOM	28517	C2	A	A1350	237.010	138.328	-9.727	1.00	88.97	A16S
ATOM	28518	N1	A	A1350	236.260	138.993	-8.843	1.00	88.97	A16S
ATOM	28519	C6	A	A1350	235.024	138.539	-8.579	1.00	88.97	A16S
ATOM	28520	N6	A	A1350	234.281	139.201	-7.689	1.00	88.97	A16S
ATOM	28521	C5	A	A1350	234.595	137.387	-9.257	1.00	88.97	A16S
ATOM	28522	N7	A	A1350	233.411	136.665	-9.212	1.00	88.97	A16S
ATOM	28523	C8	A	A1350	233.612	135.678	-10.045	1.00	88.97	A16S
ATOM	28524	C2*	A	A1350	236.545	133.887	-11.022	1.00	72.51	A16S
ATOM	28525	O2*	A	A1350	237.416	133.497	-12.067	1.00	72.51	A16S
ATOM	28526	C3*	A	A1350	235.806	132.690	-10.444	1.00	72.51	A16S
ATOM	28527	O3*	A	A1350	236.636	131.552	-10.319	1.00	72.51	A16S
ATOM	28528	P	U	A1351	237.128	131.101	-8.859	1.00	78.87	A16S
ATOM	28529	O1P	U	A1351	237.768	129.760	-8.981	1.00	98.58	A16S
ATOM	28530	O2P	U	A1351	235.982	131.277	-7.935	1.00	98.58	A16S
ATOM	28531	O5*	U	A1351	238.236	132.190	-8.477	1.00	78.87	A16S
ATOM	28532	C5*	U	A1351	239.512	132.244	-9.177	1.00	78.87	A16S
ATOM	28533	C4*	U	A1351	240.282	133.513	-8.830	1.00	78.87	A16S
ATOM	28534	O4*	U	A1351	239.494	134.665	-9.230	1.00	78.87	A16S
ATOM	28535	C1*	U	A1351	239.626	135.694	-8.268	1.00	78.87	A16S
ATOM	28536	N1	U	A1351	238.311	135.896	-7.626	1.00	98.58	A16S
ATOM	28537	C6	U	A1351	237.260	135.035	-7.846	1.00	98.58	A16S
ATOM	28538	C2	U	A1351	238.161	136.985	-6.782	1.00	98.58	A16S
ATOM	28539	O2	U	A1351	239.064	137.771	-6.543	1.00	98.58	A16S
ATOM	28540	N3	U	A1351	236.917	137.118	-6.218	1.00	98.58	A16S
ATOM	28541	C4	U	A1351	235.836	136.295	-6.393	1.00	98.58	A16S
ATOM	28542	O4	U	A1351	234.783	136.554	-5.811	1.00	98.58	A16S
ATOM	28543	C5	U	A1351	236.064	135.191	-7.272	1.00	98.58	A16S
ATOM	28544	C2*	U	A1351	240.714	135.260	-7.281	1.00	78.87	A16S
ATOM	28545	O2*	U	A1351	241.976	135.740	-7.714	1.00	78.87	A16S
ATOM	28546	C3*	U	A1351	240.607	133.744	-7.359	1.00	78.87	A16S
ATOM	28547	O3*	U	A1351	241.818	133.108	-6.954	1.00	78.87	A16S
ATOM	28548	P	C	A1352	242.016	132.666	-5.408	1.00	80.47	A16S
ATOM	28549	O1P	C	A1352	243.254	131.830	-5.365	1.00	99.34	A16S
ATOM	28550	O2P	C	A1352	240.743	132.111	-4.875	1.00	99.34	A16S
ATOM	28551	O5*	C	A1352	242.274	134.047	-4.647	1.00	80.47	A16S
ATOM	28552	C5*	C	A1352	243.345	134.931	-5.054	1.00	80.47	A16S
ATOM	28553	C4*	C	A1352	243.428	136.141	-4.144	1.00	80.47	A16S
ATOM	28554	O4*	C	A1352	242.384	137.104	-4.462	1.00	80.47	A16S
ATOM	28555	C1*	C	A1352	241.961	137.750	-3.268	1.00	80.47	A16S
ATOM	28556	N1	C	A1352	240.516	137.495	-3.062	1.00	99.34	A16S
ATOM	28557	C6	C	A1352	239.987	136.247	-3.246	1.00	99.34	A16S
ATOM	28558	C2	C	A1352	239.689	138.558	-2.676	1.00	99.34	A16S
ATOM	28559	O2	C	A1352	240.189	139.672	-2.485	1.00	99.34	A16S
ATOM	28560	N3	C	A1352	238.366	138.342	-2.517	1.00	99.34	A16S



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ATOM	28561	C4	C	A1352	237.857	137.128	-2.723	1.00	99.34	A16S
ATOM	28562	N4	C	A1352	236.536	136.973	-2.588	1.00	99.34	A16S
ATOM	28563	C5	C	A1352	238.676	136.021	-3.087	1.00	99.34	A16S
ATOM	28564	C2*	C	A1352	242.817	137.212	-2.119	1.00	80.47	A16S
ATOM	28565	O2*	C	A1352	243.908	138.070	-1.884	1.00	80.47	A16S
ATOM	28566	C3*	C	A1352	243.266	135.865	-2.661	1.00	80.47	A16S
ATOM	28567	O3*	C	A1352	244.459	135.420	-2.044	1.00	80.47	A16S
ATOM	28568	P	G	A1353	244.402	134.152	-1.061	1.00	85.26	A16S
ATOM	28569	O1P	G	A1353	245.785	133.662	-0.834	1.00	87.12	A16S
ATOM	28570	O2P	G	A1353	243.373	133.225	-1.596	1.00	87.12	A16S
ATOM	28571	O5*	G	A1353	243.851	134.734	0.314	1.00	85.26	A16S
ATOM	28572	C5*	G	A1353	244.749	135.269	1.305	1.00	85.26	A16S
ATOM	28573	C4*	G	A1353	244.408	136.714	1.598	1.00	85.26	A16S
ATOM	28574	O4*	G	A1353	243.511	137.213	0.572	1.00	85.26	A16S
ATOM	28575	C1*	G	A1353	242.595	138.135	1.139	1.00	85.26	A16S
ATOM	28576	N9	G	A1353	241.236	137.620	0.957	1.00	87.12	A16S
ATOM	28577	C4	G	A1353	240.073	138.253	1.323	1.00	87.12	A16S
ATOM	28578	N3	G	A1353	239.980	139.468	1.898	1.00	87.12	A16S
ATOM	28579	C2	G	A1353	238.729	139.795	2.156	1.00	87.12	A16S
ATOM	28580	N2	G	A1353	238.450	140.957	2.736	1.00	87.12	A16S
ATOM	28581	N1	G	A1353	237.657	139.004	1.867	1.00	87.12	A16S
ATOM	28582	C6	G	A1353	237.727	137.755	1.276	1.00	87.12	A16S
ATOM	28583	O6	G	A1353	236.694	137.124	1.071	1.00	87.12	A16S
ATOM	28584	C5	G	A1353	239.063	137.383	0.992	1.00	87.12	A16S
ATOM	28585	N7	G	A1353	239.573	136.234	0.410	1.00	87.12	A16S
ATOM	28586	C8	G	A1353	240.863	136.418	0.406	1.00	87.12	A16S
ATOM	28587	C2*	G	A1353	242.980	138.310	2.607	1.00	85.26	A16S
ATOM	28588	O2*	G	A1353	243.865	139.409	2.693	1.00	85.26	A16S
ATOM	28589	C3*	G	A1353	243.682	136.992	2.901	1.00	85.26	A16S
ATOM	28590	O3*	G	A1353	244.605	137.133	3.962	1.00	85.26	A16S
ATOM	28591	P	C	A1354	244.185	136.677	5.440	1.00	75.42	A16S
ATOM	28592	O1P	C	A1354	245.383	136.867	6.305	1.00	94.98	A16S
ATOM	28593	O2P	C	A1354	243.565	135.329	5.344	1.00	94.98	A16S
ATOM	28594	O5*	C	A1354	243.061	137.742	5.848	1.00	75.42	A16S
ATOM	28595	C5*	C	A1354	243.411	139.142	6.052	1.00	75.42	A16S
ATOM	28596	C4*	C	A1354	242.246	139.941	6.624	1.00	75.42	A16S
ATOM	28597	O4*	C	A1354	241.318	140.356	5.576	1.00	75.42	A16S
ATOM	28598	C1*	C	A1354	239.988	140.340	6.089	1.00	75.42	A16S
ATOM	28599	N1	C	A1354	239.250	139.214	5.461	1.00	94.98	A16S
ATOM	28600	C6	C	A1354	239.928	138.175	4.882	1.00	94.98	A16S
ATOM	28601	C2	C	A1354	237.832	139.206	5.487	1.00	94.98	A16S
ATOM	28602	O2	C	A1354	237.221	140.157	6.008	1.00	94.98	A16S
ATOM	28603	N3	C	A1354	237.174	138.153	4.946	1.00	94.98	A16S
ATOM	28604	C4	C	A1354	237.858	137.143	4.401	1.00	94.98	A16S
ATOM	28605	N4	C	A1354	237.171	136.121	3.895	1.00	94.98	A16S
ATOM	28606	C5	C	A1354	239.280	137.132	4.351	1.00	94.98	A16S
ATOM	28607	C2*	C	A1354	240.095	140.081	7.595	1.00	75.42	A16S
ATOM	28608	O2*	C	A1354	240.191	141.305	8.296	1.00	75.42	A16S
ATOM	28609	C3*	C	A1354	241.373	139.261	7.667	1.00	75.42	A16S
ATOM	28610	O3*	C	A1354	241.915	139.227	8.971	1.00	75.42	A16S
ATOM	28611	P	G	A1355	241.465	138.047	9.972	1.00	79.96	A16S
ATOM	28612	O1P	G	A1355	242.400	137.971	11.131	1.00	101.49	A16S
ATOM	28613	O2P	G	A1355	241.232	136.831	9.154	1.00	101.49	A16S
ATOM	28614	O5*	G	A1355	240.049	138.542	10.509	1.00	79.96	A16S
ATOM	28615	C5*	G	A1355	239.922	139.780	11.240	1.00	79.96	A16S
ATOM	28616	C4*	G	A1355	238.476	140.031	11.609	1.00	79.96	A16S
ATOM	28617	O4*	G	A1355	237.678	140.130	10.395	1.00	79.96	A16S
ATOM	28618	C1*	G	A1355	236.401	139.545	10.605	1.00	79.96	A16S
ATOM	28619	N9	G	A1355	236.259	138.397	9.704	1.00	101.49	A16S
ATOM	28620	C4	G	A1355	235.095	137.708	9.408	1.00	101.49	A16S
ATOM	28621	N3	G	A1355	233.862	137.982	9.882	1.00	101.49	A16S
ATOM	28622	C2	G	A1355	232.958	137.124	9.433	1.00	101.49	A16S
ATOM	28623	N2	G	A1355	231.681	137.237	9.807	1.00	101.49	A16S
ATOM	28624	N1	G	A1355	233.236	136.090	8.586	1.00	101.49	A16S
ATOM	28625	C6	G	A1355	234.489	135.788	8.081	1.00	101.49	A16S
ATOM	28626	O6	G	A1355	234.623	134.826	7.318	1.00	101.49	A16S
ATOM	28627	C5	G	A1355	235.477	136.696	8.555	1.00	101.49	A16S
ATOM	28628	N7	G	A1355	236.842	136.751	8.304	1.00	101.49	A16S
ATOM	28629	C8	G	A1355	237.262	137.773	8.998	1.00	101.49	A16S
ATOM	28630	C2*	G	A1355	236.330	139.143	12.081	1.00	79.96	A16S
ATOM	28631	O2*	G	A1355	235.773	140.200	12.836	1.00	79.96	A16S
ATOM	28632	C3*	G	A1355	237.798	138.941	12.424	1.00	79.96	A16S
ATOM	28633	O3*	G	A1355	238.025	139.082	13.818	1.00	79.96	A16S
ATOM	28634	P	G	A1356	237.755	137.832	14.795	1.00	93.75	A16S
ATOM	28635	O1P	G	A1356	238.070	138.257	16.181	1.00	105.24	A16S
ATOM	28636	O2P	G	A1356	238.432	136.642	14.227	1.00	105.24	A16S
ATOM	28637	O5*	G	A1356	236.178	137.595	14.716	1.00	93.75	A16S



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ATOM	28638	C5*	G	A1356	235.253	138.646	15.087	1.00	93.75	A16S
ATOM	28639	C4*	G	A1356	233.818	138.193	14.915	1.00	93.75	A16S
ATOM	28640	O4*	G	A1356	233.534	137.943	13.517	1.00	93.75	A16S
ATOM	28641	C1*	G	A1356	232.659	136.835	13.400	1.00	93.75	A16S
ATOM	28642	N9	G	A1356	233.323	135.794	12.610	1.00105.24		A16S
ATOM	28643	C4	G	A1356	232.724	134.691	12.045	1.00105.24		A16S
ATOM	28644	N3	G	A1356	231.412	134.381	12.110	1.00105.24		A16S
ATOM	28645	C2	G	A1356	231.141	133.248	11.491	1.00105.24		A16S
ATOM	28646	N2	G	A1356	229.880	132.792	11.462	1.00105.24		A16S
ATOM	28647	N1	G	A1356	232.087	132.482	10.859	1.00105.24		A16S
ATOM	28648	C6	G	A1356	233.443	132.784	10.781	1.00105.24		A16S
ATOM	28649	O6	G	A1356	234.211	132.019	10.197	1.00105.24		A16S
ATOM	28650	C5	G	A1356	233.743	133.994	11.434	1.00105.24		A16S
ATOM	28651	N7	G	A1356	234.954	134.650	11.591	1.00105.24		A16S
ATOM	28652	C8	G	A1356	234.658	135.710	12.292	1.00105.24		A16S
ATOM	28653	C2*	G	A1356	232.283	136.381	14.816	1.00	93.75	A16S
ATOM	28654	O2*	G	A1356	231.033	136.933	15.184	1.00	93.75	A16S
ATOM	28655	C3*	G	A1356	233.451	136.912	15.639	1.00	93.75	A16S
ATOM	28656	O3*	G	A1356	233.080	137.208	16.975	1.00	93.75	A16S
ATOM	28657	P	A	A1357	233.403	136.160	18.148	1.00	83.64	A16S
ATOM	28658	O1P	A	A1357	233.460	136.943	19.407	1.00	94.21	A16S
ATOM	28659	O2P	A	A1357	234.559	135.313	17.753	1.00	94.21	A16S
ATOM	28660	O5*	A	A1357	232.106	135.242	18.210	1.00	83.64	A16S
ATOM	28661	C5*	A	A1357	230.788	135.831	18.282	1.00	83.64	A16S
ATOM	28662	C4*	A	A1357	229.762	134.871	17.736	1.00	83.64	A16S
ATOM	28663	O4*	A	A1357	229.992	134.692	16.321	1.00	83.64	A16S
ATOM	28664	C1*	A	A1357	229.777	133.336	15.979	1.00	83.64	A16S
ATOM	28665	N9	A	A1357	230.990	132.816	15.332	1.00	94.21	A16S
ATOM	28666	C4	A	A1357	231.067	131.685	14.554	1.00	94.21	A16S
ATOM	28667	N3	A	A1357	230.074	130.829	14.259	1.00	94.21	A16S
ATOM	28668	C2	A	A1357	230.517	129.853	13.485	1.00	94.21	A16S
ATOM	28669	N1	A	A1357	231.742	129.651	12.999	1.00	94.21	A16S
ATOM	28670	C6	A	A1357	232.712	130.534	13.302	1.00	94.21	A16S
ATOM	28671	N6	A	A1357	233.926	130.342	12.792	1.00	94.21	A16S
ATOM	28672	C5	A	A1357	232.378	131.608	14.129	1.00	94.21	A16S
ATOM	28673	N7	A	A1357	233.124	132.660	14.637	1.00	94.21	A16S
ATOM	28674	C8	A	A1357	232.260	133.342	15.347	1.00	94.21	A16S
ATOM	28675	C2*	A	A1357	229.321	132.584	17.237	1.00	83.64	A16S
ATOM	28676	O2*	A	A1357	227.911	132.493	17.260	1.00	83.64	A16S
ATOM	28677	C3*	A	A1357	229.833	133.482	18.351	1.00	83.64	A16S
ATOM	28678	O3*	A	A1357	228.952	133.426	19.459	1.00	83.64	A16S
ATOM	28679	P	U	A1358	229.509	133.052	20.917	1.00	80.57	A16S
ATOM	28680	O1P	U	A1358	228.394	133.400	21.845	1.00	90.50	A16S
ATOM	28681	O2P	U	A1358	230.860	133.653	21.117	1.00	90.50	A16S
ATOM	28682	O5*	U	A1358	229.675	131.470	20.887	1.00	80.57	A16S
ATOM	28683	C5*	U	A1358	228.560	130.620	20.605	1.00	80.57	A16S
ATOM	28684	C4*	U	A1358	229.042	129.333	19.996	1.00	80.57	A16S
ATOM	28685	O4*	U	A1358	229.636	129.591	18.707	1.00	80.57	A16S
ATOM	28686	C1*	U	A1358	230.538	128.540	18.410	1.00	80.57	A16S
ATOM	28687	N1	U	A1358	231.700	129.065	17.680	1.00	90.50	A16S
ATOM	28688	C6	U	A1358	232.254	130.279	17.989	1.00	90.50	A16S
ATOM	28689	C2	U	A1358	232.239	128.273	16.688	1.00	90.50	A16S
ATOM	28690	O2	U	A1358	231.755	127.211	16.353	1.00	90.50	A16S
ATOM	28691	N3	U	A1358	233.373	128.767	16.107	1.00	90.50	A16S
ATOM	28692	C4	U	A1358	234.011	129.948	16.409	1.00	90.50	A16S
ATOM	28693	O4	U	A1358	235.142	130.151	15.965	1.00	90.50	A16S
ATOM	28694	C5	U	A1358	233.359	130.737	17.403	1.00	90.50	A16S
ATOM	28695	C2*	U	A1358	230.897	127.828	19.722	1.00	80.57	A16S
ATOM	28696	O2*	U	A1358	230.563	126.453	19.688	1.00	80.57	A16S
ATOM	28697	C3*	U	A1358	230.146	128.645	20.776	1.00	80.57	A16S
ATOM	28698	O3*	U	A1358	229.569	127.782	21.740	1.00	80.57	A16S
ATOM	28699	P	C	A1359	230.153	127.757	23.230	1.00	97.06	A16S
ATOM	28700	O1P	C	A1359	229.582	126.552	23.910	1.00	78.66	A16S
ATOM	28701	O2P	C	A1359	229.915	129.118	23.796	1.00	78.66	A16S
ATOM	28702	O5*	C	A1359	231.723	127.558	23.031	1.00	97.06	A16S
ATOM	28703	C5*	C	A1359	232.298	126.248	22.869	1.00	97.06	A16S
ATOM	28704	C4*	C	A1359	233.779	126.360	22.579	1.00	97.06	A16S
ATOM	28705	O4*	C	A1359	233.950	127.096	21.347	1.00	97.06	A16S
ATOM	28706	C1*	C	A1359	235.110	127.897	21.421	1.00	97.06	A16S
ATOM	28707	N1	C	A1359	234.705	129.296	21.237	1.00	78.66	A16S
ATOM	28708	C6	C	A1359	233.462	129.723	21.614	1.00	78.66	A16S
ATOM	28709	C2	C	A1359	235.604	130.184	20.640	1.00	78.66	A16S
ATOM	28710	O2	C	A1359	236.750	129.777	20.340	1.00	78.66	A16S
ATOM	28711	N3	C	A1359	235.207	131.463	20.398	1.00	78.66	A16S
ATOM	28712	C4	C	A1359	233.974	131.857	20.736	1.00	78.66	A16S
ATOM	28713	N4	C	A1359	233.605	133.114	20.437	1.00	78.66	A16S
ATOM	28714	C5	C	A1359	233.058	130.979	21.383	1.00	78.66	A16S



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ATOM	28715	C2* C	A1359	235.793	127.612	22.752	1.00	97.06	A16S
ATOM	28716	O2* C	A1359	236.761	126.603	22.541	1.00	97.06	A16S
ATOM	28717	C3* C	A1359	234.622	127.121	23.593	1.00	97.06	A16S
ATOM	28718	O3* C	A1359	235.044	126.281	24.667	1.00	97.06	A16S
ATOM	28719	P A	A1360	235.576	126.945	26.042	1.00	84.03	A16S
ATOM	28720	O1P A	A1360	234.699	128.119	26.384	1.00	81.37	A16S
ATOM	28721	O2P A	A1360	235.752	125.824	27.023	1.00	81.37	A16S
ATOM	28722	O5* A	A1360	237.008	127.525	25.641	1.00	84.03	A16S
ATOM	28723	C5* A	A1360	237.792	128.307	26.559	1.00	84.03	A16S
ATOM	28724	C4* A	A1360	239.207	127.778	26.609	1.00	84.03	A16S
ATOM	28725	O4* A	A1360	239.234	126.513	27.313	1.00	84.03	A16S
ATOM	28726	C1* A	A1360	240.207	125.668	26.735	1.00	84.03	A16S
ATOM	28727	N9 A	A1360	239.570	124.388	26.412	1.00	81.37	A16S
ATOM	28728	C4 A	A1360	240.192	123.224	26.024	1.00	81.37	A16S
ATOM	28729	N3 A	A1360	241.499	123.036	25.790	1.00	81.37	A16S
ATOM	28730	C2 A	A1360	241.747	121.759	25.500	1.00	81.37	A16S
ATOM	28731	N1 A	A1360	240.900	120.723	25.423	1.00	81.37	A16S
ATOM	28732	C6 A	A1360	239.589	120.946	25.654	1.00	81.37	A16S
ATOM	28733	N6 A	A1360	238.740	119.909	25.580	1.00	81.37	A16S
ATOM	28734	C5 A	A1360	239.195	122.263	25.967	1.00	81.37	A16S
ATOM	28735	N7 A	A1360	237.959	122.821	26.257	1.00	81.37	A16S
ATOM	28736	C8 A	A1360	238.233	124.082	26.500	1.00	81.37	A16S
ATOM	28737	C2* A	A1360	240.879	126.425	25.590	1.00	84.03	A16S
ATOM	28738	O2* A	A1360	242.066	127.000	26.089	1.00	84.03	A16S
ATOM	28739	C3* A	A1360	239.840	127.490	25.259	1.00	84.03	A16S
ATOM	28740	O3* A	A1360	240.429	128.669	24.729	1.00	84.03	A16S
ATOM	28741	P G	A1361	240.469	128.886	23.139	1.00	81.77	A16S
ATOM	28742	O1P G	A1361	241.358	130.048	22.843	1.00	77.90	A16S
ATOM	28743	O2P G	A1361	239.069	128.902	22.648	1.00	77.90	A16S
ATOM	28744	O5* G	A1361	241.168	127.547	22.620	1.00	81.77	A16S
ATOM	28745	C5* G	A1361	242.574	127.289	22.885	1.00	81.77	A16S
ATOM	28746	C4* G	A1361	242.966	125.889	22.441	1.00	81.77	A16S
ATOM	28747	O4* G	A1361	242.342	124.904	23.302	1.00	81.77	A16S
ATOM	28748	C1* G	A1361	241.968	123.768	22.541	1.00	81.77	A16S
ATOM	28749	N9 G	A1361	240.514	123.672	22.584	1.00	77.90	A16S
ATOM	28750	C4 G	A1361	239.774	122.537	22.398	1.00	77.90	A16S
ATOM	28751	N3 G	A1361	240.267	121.305	22.158	1.00	77.90	A16S
ATOM	28752	C2 G	A1361	239.309	120.408	22.037	1.00	77.90	A16S
ATOM	28753	N2 G	A1361	239.623	119.122	21.830	1.00	77.90	A16S
ATOM	28754	N1 G	A1361	237.971	120.704	22.121	1.00	77.90	A16S
ATOM	28755	C6 G	A1361	237.446	121.972	22.356	1.00	77.90	A16S
ATOM	28756	O6 G	A1361	236.222	122.137	22.404	1.00	77.90	A16S
ATOM	28757	C5 G	A1361	238.462	122.935	22.508	1.00	77.90	A16S
ATOM	28758	N7 G	A1361	238.376	124.298	22.760	1.00	77.90	A16S
ATOM	28759	C8 G	A1361	239.616	124.694	22.801	1.00	77.90	A16S
ATOM	28760	C2* G	A1361	242.463	123.977	21.109	1.00	81.77	A16S
ATOM	28761	O2* G	A1361	243.692	123.312	20.913	1.00	81.77	A16S
ATOM	28762	C3* G	A1361	242.545	125.496	21.037	1.00	81.77	A16S
ATOM	28763	O3* G	A1361	243.448	125.963	20.061	1.00	81.77	A16S
ATOM	28764	P C	A1361A	242.871	126.618	18.720	1.00	81.39	A16S
ATOM	28765	O1P C	A1361A	244.018	127.187	17.959	1.00	87.94	A16S
ATOM	28766	O2P C	A1361A	241.742	127.496	19.098	1.00	87.94	A16S
ATOM	28767	O5* C	A1361A	242.267	125.366	17.941	1.00	81.39	A16S
ATOM	28768	C5* C	A1361A	243.117	124.272	17.537	1.00	81.39	A16S
ATOM	28769	C4* C	A1361A	242.296	123.138	16.956	1.00	81.39	A16S
ATOM	28770	O4* C	A1361A	241.577	122.445	18.011	1.00	81.39	A16S
ATOM	28771	C1* C	A1361A	240.339	121.974	17.510	1.00	81.39	A16S
ATOM	28772	N1 C	A1361A	239.245	122.624	18.255	1.00	87.94	A16S
ATOM	28773	C6 C	A1361A	239.324	123.942	18.613	1.00	87.94	A16S
ATOM	28774	C2 C	A1361A	238.109	121.874	18.580	1.00	87.94	A16S
ATOM	28775	O2 C	A1361A	238.060	120.676	18.253	1.00	87.94	A16S
ATOM	28776	N3 C	A1361A	237.089	122.471	19.241	1.00	87.94	A16S
ATOM	28777	C4 C	A1361A	237.174	123.760	19.577	1.00	87.94	A16S
ATOM	28778	N4 C	A1361A	236.143	124.306	20.229	1.00	87.94	A16S
ATOM	28779	C5 C	A1361A	238.321	124.545	19.263	1.00	87.94	A16S
ATOM	28780	C2* C	A1361A	240.282	122.315	16.021	1.00	81.39	A16S
ATOM	28781	O2* C	A1361A	240.759	121.217	15.279	1.00	81.39	A16S
ATOM	28782	C3* C	A1361A	241.228	123.504	15.935	1.00	81.39	A16S
ATOM	28783	O3* C	A1361A	241.753	123.686	14.619	1.00	81.39	A16S
ATOM	28784	P C	A1362	240.748	123.986	13.389	1.00	84.76	A16S
ATOM	28785	O1P C	A1362	241.424	124.870	12.395	1.00	83.86	A16S
ATOM	28786	O2P C	A1362	239.428	124.402	13.938	1.00	83.86	A16S
ATOM	28787	O5* C	A1362	240.611	122.548	12.717	1.00	84.76	A16S
ATOM	28788	C5* C	A1362	239.375	121.819	12.739	1.00	84.76	A16S
ATOM	28789	C4* C	A1362	239.623	120.390	12.341	1.00	84.76	A16S
ATOM	28790	O4* C	A1362	240.251	119.683	13.433	1.00	84.76	A16S
ATOM	28791	C1* C	A1362	239.938	118.315	13.332	1.00	84.76	A16S



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ATOM	28792	N1	C	A1362	239.577	117.769	14.648	1.00	83.86	A16S
ATOM	28793	C6	C	A1362	239.060	118.548	15.647	1.00	83.86	A16S
ATOM	28794	C2	C	A1362	239.782	116.410	14.853	1.00	83.86	A16S
ATOM	28795	O2	C	A1362	240.257	115.735	13.918	1.00	83.86	A16S
ATOM	28796	N3	C	A1362	239.466	115.860	16.051	1.00	83.86	A16S
ATOM	28797	C4	C	A1362	238.968	116.626	17.025	1.00	83.86	A16S
ATOM	28798	N4	C	A1362	238.677	116.040	18.194	1.00	83.86	A16S
ATOM	28799	C5	C	A1362	238.746	118.022	16.844	1.00	83.86	A16S
ATOM	28800	C2*	C	A1362	238.866	118.136	12.261	1.00	84.76	A16S
ATOM	28801	O2*	C	A1362	239.501	117.564	11.136	1.00	84.76	A16S
ATOM	28802	C3*	C	A1362	238.383	119.569	12.042	1.00	84.76	A16S
ATOM	28803	O3*	C	A1362	238.004	119.765	10.685	1.00	84.76	A16S
ATOM	28804	P	A	A1363	236.907	120.875	10.308	1.00	90.85	A16S
ATOM	28805	O1P	A	A1363	235.986	121.047	11.462	1.00	109.02	A16S
ATOM	28806	O2P	A	A1363	236.366	120.480	8.986	1.00	109.02	A16S
ATOM	28807	O5*	A	A1363	237.738	122.219	10.102	1.00	90.85	A16S
ATOM	28808	C5*	A	A1363	238.156	122.631	8.780	1.00	90.85	A16S
ATOM	28809	C4*	A	A1363	238.001	124.127	8.625	1.00	90.85	A16S
ATOM	28810	O4*	A	A1363	236.647	124.491	8.991	1.00	90.85	A16S
ATOM	28811	C1*	A	A1363	236.666	125.441	10.033	1.00	90.85	A16S
ATOM	28812	N9	A	A1363	235.557	125.126	10.937	1.00	109.02	A16S
ATOM	28813	C4	A	A1363	235.175	125.817	12.060	1.00	109.02	A16S
ATOM	28814	N3	A	A1363	235.745	126.917	12.577	1.00	109.02	A16S
ATOM	28815	C2	A	A1363	235.096	127.313	13.664	1.00	109.02	A16S
ATOM	28816	N1	A	A1363	234.022	126.776	14.247	1.00	109.02	A16S
ATOM	28817	C6	A	A1363	233.475	125.670	13.699	1.00	109.02	A16S
ATOM	28818	N6	A	A1363	232.398	125.131	14.272	1.00	109.02	A16S
ATOM	28819	C5	A	A1363	234.070	125.151	12.551	1.00	109.02	A16S
ATOM	28820	N7	A	A1363	233.762	124.054	11.763	1.00	109.02	A16S
ATOM	28821	C8	A	A1363	234.671	124.081	10.824	1.00	109.02	A16S
ATOM	28822	C2*	A	A1363	238.057	125.368	10.667	1.00	90.85	A16S
ATOM	28823	O2*	A	A1363	238.428	126.615	11.227	1.00	90.85	A16S
ATOM	28824	C3*	A	A1363	238.927	124.996	9.470	1.00	90.85	A16S
ATOM	28825	O3*	A	A1363	239.239	126.177	8.725	1.00	90.85	A16S
ATOM	28826	P	U	A1364	240.232	126.086	7.456	1.00	78.14	A16S
ATOM	28827	O1P	U	A1364	240.801	127.446	7.178	1.00	84.13	A16S
ATOM	28828	O2P	U	A1364	241.150	124.917	7.679	1.00	84.13	A16S
ATOM	28829	O5*	U	A1364	239.279	125.724	6.230	1.00	78.14	A16S
ATOM	28830	C5*	U	A1364	239.284	126.519	5.030	1.00	78.14	A16S
ATOM	28831	C4*	U	A1364	238.658	125.747	3.904	1.00	78.14	A16S
ATOM	28832	O4*	U	A1364	239.498	124.614	3.578	1.00	78.14	A16S
ATOM	28833	C1*	U	A1364	238.730	123.436	3.626	1.00	78.14	A16S
ATOM	28834	N1	U	A1364	239.585	122.334	4.077	1.00	84.13	A16S
ATOM	28835	C6	U	A1364	240.588	122.532	4.989	1.00	84.13	A16S
ATOM	28836	C2	U	A1364	239.354	121.091	3.532	1.00	84.13	A16S
ATOM	28837	O2	U	A1364	238.447	120.872	2.748	1.00	84.13	A16S
ATOM	28838	N3	U	A1364	240.222	120.111	3.942	1.00	84.13	A16S
ATOM	28839	C4	U	A1364	241.266	120.253	4.825	1.00	84.13	A16S
ATOM	28840	O4	U	A1364	242.030	119.315	5.005	1.00	84.13	A16S
ATOM	28841	C5	U	A1364	241.414	121.561	5.370	1.00	84.13	A16S
ATOM	28842	C2*	U	A1364	237.525	123.734	4.512	1.00	78.14	A16S
ATOM	28843	O2*	U	A1364	236.457	122.896	4.131	1.00	78.14	A16S
ATOM	28844	C3*	U	A1364	237.263	125.195	4.172	1.00	78.14	A16S
ATOM	28845	O3*	U	A1364	236.574	125.235	2.943	1.00	78.14	A16S
ATOM	28846	P	G	A1365	235.138	125.924	2.849	1.00	70.71	A16S
ATOM	28847	O1P	G	A1365	234.615	125.567	1.501	1.00	92.40	A16S
ATOM	28848	O2P	G	A1365	235.256	127.361	3.221	1.00	92.40	A16S
ATOM	28849	O5*	G	A1365	234.295	125.170	3.969	1.00	70.71	A16S
ATOM	28850	C5*	G	A1365	233.506	124.029	3.633	1.00	70.71	A16S
ATOM	28851	C4*	G	A1365	232.290	123.952	4.521	1.00	70.71	A16S
ATOM	28852	O4*	G	A1365	232.717	123.641	5.871	1.00	70.71	A16S
ATOM	28853	C1*	G	A1365	231.867	124.298	6.796	1.00	70.71	A16S
ATOM	28854	N9	G	A1365	232.660	125.245	7.584	1.00	92.40	A16S
ATOM	28855	C4	G	A1365	232.256	125.878	8.731	1.00	92.40	A16S
ATOM	28856	N3	G	A1365	231.069	125.715	9.342	1.00	92.40	A16S
ATOM	28857	C2	G	A1365	230.951	126.492	10.398	1.00	92.40	A16S
ATOM	28858	N2	G	A1365	229.813	126.473	11.118	1.00	92.40	A16S
ATOM	28859	N1	G	A1365	231.931	127.349	10.827	1.00	92.40	A16S
ATOM	28860	C6	G	A1365	233.163	127.526	10.213	1.00	92.40	A16S
ATOM	28861	O6	G	A1365	233.973	128.331	10.680	1.00	92.40	A16S
ATOM	28862	C5	G	A1365	233.297	126.708	9.079	1.00	92.40	A16S
ATOM	28863	N7	G	A1365	234.347	126.585	8.185	1.00	92.40	A16S
ATOM	28864	C8	G	A1365	233.930	125.703	7.320	1.00	92.40	A16S
ATOM	28865	C2*	G	A1365	230.767	125.003	5.994	1.00	70.71	A16S
ATOM	28866	O2*	G	A1365	229.668	124.125	5.877	1.00	70.71	A16S
ATOM	28867	C3*	G	A1365	231.441	125.215	4.648	1.00	70.71	A16S
ATOM	28868	O3*	G	A1365	230.456	125.307	3.618	1.00	70.71	A16S



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ATOM	28869	P	C	A1366	229.862	126.750	3.187	1.00	71.95	A16S
ATOM	28870	O1P	C	A1366	228.792	126.544	2.178	1.00	111.51	A16S
ATOM	28871	O2P	C	A1366	231.012	127.635	2.864	1.00	111.51	A16S
ATOM	28872	O5*	C	A1366	229.143	127.313	4.500	1.00	71.95	A16S
ATOM	28873	C5*	C	A1366	227.909	126.730	4.997	1.00	71.95	A16S
ATOM	28874	C4*	C	A1366	227.449	127.439	6.267	1.00	71.95	A16S
ATOM	28875	O4*	C	A1366	228.407	127.228	7.338	1.00	71.95	A16S
ATOM	28876	C1*	C	A1366	228.513	128.406	8.120	1.00	71.95	A16S
ATOM	28877	N1	C	A1366	229.912	128.888	8.054	1.00	111.51	A16S
ATOM	28878	C6	C	A1366	230.740	128.515	7.030	1.00	111.51	A16S
ATOM	28879	C2	C	A1366	230.380	129.743	9.058	1.00	111.51	A16S
ATOM	28880	O2	C	A1366	229.616	130.068	9.977	1.00	111.51	A16S
ATOM	28881	N3	C	A1366	231.650	130.198	9.000	1.00	111.51	A16S
ATOM	28882	C4	C	A1366	232.445	129.828	7.998	1.00	111.51	A16S
ATOM	28883	N4	C	A1366	233.691	130.298	7.988	1.00	111.51	A16S
ATOM	28884	C5	C	A1366	231.999	128.958	6.964	1.00	111.51	A16S
ATOM	28885	C2*	C	A1366	227.503	129.428	7.586	1.00	71.95	A16S
ATOM	28886	O2*	C	A1366	226.331	129.415	8.366	1.00	71.95	A16S
ATOM	28887	C3*	C	A1366	227.284	128.945	6.161	1.00	71.95	A16S
ATOM	28888	O3*	C	A1366	225.979	129.260	5.727	1.00	71.95	A16S
ATOM	28889	P	C	A1367	225.748	130.541	4.804	1.00	70.33	A16S
ATOM	28890	O1P	C	A1367	224.346	130.491	4.302	1.00	86.30	A16S
ATOM	28891	O2P	C	A1367	226.881	130.607	3.836	1.00	86.30	A16S
ATOM	28892	O5*	C	A1367	225.889	131.762	5.820	1.00	70.33	A16S
ATOM	28893	C5*	C	A1367	224.944	131.950	6.894	1.00	70.33	A16S
ATOM	28894	C4*	C	A1367	225.368	133.104	7.765	1.00	70.33	A16S
ATOM	28895	O4*	C	A1367	226.538	132.742	8.537	1.00	70.33	A16S
ATOM	28896	C1*	C	A1367	227.380	133.874	8.679	1.00	70.33	A16S
ATOM	28897	N1	C	A1367	228.717	133.559	8.137	1.00	86.30	A16S
ATOM	28898	C6	C	A1367	228.969	132.349	7.552	1.00	86.30	A16S
ATOM	28899	C2	C	A1367	229.744	134.521	8.241	1.00	86.30	A16S
ATOM	28900	O2	C	A1367	229.494	135.624	8.749	1.00	86.30	A16S
ATOM	28901	N3	C	A1367	230.980	134.219	7.779	1.00	86.30	A16S
ATOM	28902	C4	C	A1367	231.214	133.026	7.225	1.00	86.30	A16S
ATOM	28903	N4	C	A1367	232.449	132.765	6.797	1.00	86.30	A16S
ATOM	28904	C5	C	A1367	230.190	132.045	7.088	1.00	86.30	A16S
ATOM	28905	C2*	C	A1367	226.710	135.054	7.975	1.00	70.33	A16S
ATOM	28906	O2*	C	A1367	226.010	135.818	8.928	1.00	70.33	A16S
ATOM	28907	C3*	C	A1367	225.778	134.351	7.005	1.00	70.33	A16S
ATOM	28908	O3*	C	A1367	224.670	135.165	6.683	1.00	70.33	A16S
ATOM	28909	P	G	A1368	224.704	136.026	5.334	1.00	72.38	A16S
ATOM	28910	O1P	G	A1368	223.452	136.840	5.250	1.00	81.89	A16S
ATOM	28911	O2P	G	A1368	225.006	135.040	4.271	1.00	81.89	A16S
ATOM	28912	O5*	G	A1368	225.962	137.011	5.508	1.00	72.38	A16S
ATOM	28913	C5*	G	A1368	225.824	138.255	6.254	1.00	72.38	A16S
ATOM	28914	C4*	G	A1368	227.172	138.914	6.585	1.00	72.38	A16S
ATOM	28915	O4*	G	A1368	228.136	137.959	7.118	1.00	72.38	A16S
ATOM	28916	C1*	G	A1368	229.449	138.488	6.964	1.00	72.38	A16S
ATOM	28917	N9	G	A1368	230.312	137.540	6.257	1.00	81.89	A16S
ATOM	28918	C4	G	A1368	231.681	137.668	6.086	1.00	81.89	A16S
ATOM	28919	N3	G	A1368	232.459	138.664	6.579	1.00	81.89	A16S
ATOM	28920	C2	G	A1368	233.727	138.528	6.220	1.00	81.89	A16S
ATOM	28921	N2	G	A1368	234.636	139.432	6.613	1.00	81.89	A16S
ATOM	28922	N1	G	A1368	234.194	137.501	5.447	1.00	81.89	A16S
ATOM	28923	C6	G	A1368	233.420	136.467	4.931	1.00	81.89	A16S
ATOM	28924	O6	G	A1368	233.949	135.591	4.236	1.00	81.89	A16S
ATOM	28925	C5	G	A1368	232.054	136.595	5.308	1.00	81.89	A16S
ATOM	28926	N7	G	A1368	230.957	135.789	5.019	1.00	81.89	A16S
ATOM	28927	C8	G	A1368	229.951	136.382	5.605	1.00	81.89	A16S
ATOM	28928	C2*	G	A1368	229.331	139.797	6.184	1.00	72.38	A16S
ATOM	28929	O2*	G	A1368	229.377	140.866	7.100	1.00	72.38	A16S
ATOM	28930	C3*	G	A1368	227.965	139.664	5.520	1.00	72.38	A16S
ATOM	28931	O3*	G	A1368	227.461	140.970	5.245	1.00	72.38	A16S
ATOM	28932	P	C	A1369	227.985	141.770	3.942	1.00	68.70	A16S
ATOM	28933	O1P	C	A1369	227.271	143.069	3.859	1.00	94.43	A16S
ATOM	28934	O2P	C	A1369	227.968	140.847	2.773	1.00	94.43	A16S
ATOM	28935	O5*	C	A1369	229.507	142.107	4.267	1.00	68.70	A16S
ATOM	28936	C5*	C	A1369	229.845	143.014	5.331	1.00	68.70	A16S
ATOM	28937	C4*	C	A1369	231.312	143.385	5.279	1.00	68.70	A16S
ATOM	28938	O4*	C	A1369	232.150	142.234	5.582	1.00	68.70	A16S
ATOM	28939	C1*	C	A1369	233.363	142.330	4.851	1.00	68.70	A16S
ATOM	28940	N1	C	A1369	233.511	141.137	3.988	1.00	94.43	A16S
ATOM	28941	C6	C	A1369	232.497	140.230	3.850	1.00	94.43	A16S
ATOM	28942	C2	C	A1369	234.721	140.947	3.304	1.00	94.43	A16S
ATOM	28943	O2	C	A1369	235.625	141.789	3.428	1.00	94.43	A16S
ATOM	28944	N3	C	A1369	234.871	139.855	2.519	1.00	94.43	A16S
ATOM	28945	C4	C	A1369	233.877	138.979	2.399	1.00	94.43	A16S



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ATOM	28946	N4	C	A1369	234.073	137.924	1.619	1.00	94.43	A16S
ATOM	28947	C5	C	A1369	232.638	139.148	3.074	1.00	94.43	A16S
ATOM	28948	C2*	C	A1369	233.328	143.641	4.060	1.00	68.70	A16S
ATOM	28949	O2*	C	A1369	234.015	144.607	4.823	1.00	68.70	A16S
ATOM	28950	C3*	C	A1369	231.829	143.916	3.952	1.00	68.70	A16S
ATOM	28951	O3*	C	A1369	231.531	145.306	3.817	1.00	68.70	A16S
ATOM	28952	P	G	A1370	230.909	145.869	2.437	1.00	74.32	A16S
ATOM	28953	O1P	G	A1370	230.397	147.245	2.706	1.00	107.13	A16S
ATOM	28954	O2P	G	A1370	229.982	144.845	1.871	1.00	107.13	A16S
ATOM	28955	O5*	G	A1370	232.187	146.006	1.490	1.00	74.32	A16S
ATOM	28956	C5*	G	A1370	233.059	147.144	1.622	1.00	74.32	A16S
ATOM	28957	C4*	G	A1370	234.524	146.752	1.498	1.00	74.32	A16S
ATOM	28958	O4*	G	A1370	234.785	145.468	2.134	1.00	74.32	A16S
ATOM	28959	C1*	G	A1370	235.875	144.829	1.489	1.00	74.32	A16S
ATOM	28960	N9	G	A1370	235.414	143.555	0.938	1.00	107.13	A16S
ATOM	28961	C4	G	A1370	236.194	142.591	0.329	1.00	107.13	A16S
ATOM	28962	N3	G	A1370	237.532	142.648	0.147	1.00	107.13	A16S
ATOM	28963	C2	G	A1370	237.993	141.579	-0.477	1.00	107.13	A16S
ATOM	28964	N2	G	A1370	239.300	141.476	-0.739	1.00	107.13	A16S
ATOM	28965	N1	G	A1370	237.203	140.536	-0.892	1.00	107.13	A16S
ATOM	28966	C6	G	A1370	235.821	140.457	-0.721	1.00	107.13	A16S
ATOM	28967	O6	G	A1370	235.198	139.470	-1.141	1.00	107.13	A16S
ATOM	28968	C5	G	A1370	235.316	141.597	-0.050	1.00	107.13	A16S
ATOM	28969	N7	G	A1370	234.017	141.919	0.318	1.00	107.13	A16S
ATOM	28970	C8	G	A1370	234.123	143.083	0.901	1.00	107.13	A16S
ATOM	28971	C2*	G	A1370	236.363	145.772	0.387	1.00	74.32	A16S
ATOM	28972	O2*	G	A1370	237.409	146.563	0.910	1.00	74.32	A16S
ATOM	28973	C3*	G	A1370	235.115	146.600	0.108	1.00	74.32	A16S
ATOM	28974	O3*	G	A1370	235.445	147.855	-0.468	1.00	74.32	A16S
ATOM	28975	P	G	A1371	235.627	147.969	-2.061	1.00	82.96	A16S
ATOM	28976	O1P	G	A1371	235.925	149.380	-2.401	1.00	109.80	A16S
ATOM	28977	O2P	G	A1371	234.483	147.292	-2.711	1.00	109.80	A16S
ATOM	28978	O5*	G	A1371	236.947	147.119	-2.333	1.00	82.96	A16S
ATOM	28979	C5*	G	A1371	238.214	147.552	-1.788	1.00	82.96	A16S
ATOM	28980	C4*	G	A1371	239.372	146.820	-2.438	1.00	82.96	A16S
ATOM	28981	O4*	G	A1371	239.460	145.454	-1.962	1.00	82.96	A16S
ATOM	28982	C1*	G	A1371	239.931	144.619	-3.008	1.00	82.96	A16S
ATOM	28983	N9	G	A1371	238.904	143.615	-3.277	1.00	109.80	A16S
ATOM	28984	C4	G	A1371	239.038	142.467	-4.028	1.00	109.80	A16S
ATOM	28985	N3	G	A1371	240.159	142.051	-4.656	1.00	109.80	A16S
ATOM	28986	C2	G	A1371	239.970	140.906	-5.294	1.00	109.80	A16S
ATOM	28987	N2	G	A1371	240.985	140.327	-5.960	1.00	109.80	A16S
ATOM	28988	N1	G	A1371	238.773	140.236	-5.325	1.00	109.80	A16S
ATOM	28989	C6	G	A1371	237.606	140.650	-4.692	1.00	109.80	A16S
ATOM	28990	O6	G	A1371	236.569	139.970	-4.792	1.00	109.80	A16S
ATOM	28991	C5	G	A1371	237.798	141.864	-3.993	1.00	109.80	A16S
ATOM	28992	N7	G	A1371	236.907	142.610	-3.236	1.00	109.80	A16S
ATOM	28993	C8	G	A1371	237.604	143.636	-2.833	1.00	109.80	A16S
ATOM	28994	C2*	G	A1371	240.238	145.512	-4.217	1.00	82.96	A16S
ATOM	28995	O2*	G	A1371	241.607	145.875	-4.205	1.00	82.96	A16S
ATOM	28996	C3*	G	A1371	239.347	146.716	-3.952	1.00	82.96	A16S
ATOM	28997	O3*	G	A1371	239.900	147.881	-4.520	1.00	82.96	A16S
ATOM	28998	P	U	A1372	239.359	148.404	-5.930	1.00	76.00	A16S
ATOM	28999	O1P	U	A1372	240.183	149.588	-6.277	1.00	104.16	A16S
ATOM	29000	O2P	U	A1372	237.879	148.538	-5.864	1.00	104.16	A16S
ATOM	29001	O5*	U	A1372	239.719	147.216	-6.925	1.00	76.00	A16S
ATOM	29002	C5*	U	A1372	241.086	146.911	-7.243	1.00	76.00	A16S
ATOM	29003	C4*	U	A1372	241.161	145.739	-8.197	1.00	76.00	A16S
ATOM	29004	O4*	U	A1372	240.810	144.499	-7.519	1.00	76.00	A16S
ATOM	29005	C1*	U	A1372	240.197	143.613	-8.439	1.00	76.00	A16S
ATOM	29006	N1	U	A1372	238.865	143.231	-7.940	1.00	104.16	A16S
ATOM	29007	C6	U	A1372	238.183	144.005	-7.036	1.00	104.16	A16S
ATOM	29008	C2	U	A1372	238.313	142.064	-8.421	1.00	104.16	A16S
ATOM	29009	O2	U	A1372	238.889	141.342	-9.214	1.00	104.16	A16S
ATOM	29010	N3	U	A1372	237.062	141.771	-7.941	1.00	104.16	A16S
ATOM	29011	C4	U	A1372	236.325	142.506	-7.042	1.00	104.16	A16S
ATOM	29012	O4	U	A1372	235.206	142.117	-6.705	1.00	104.16	A16S
ATOM	29013	C5	U	A1372	236.966	143.690	-6.584	1.00	104.16	A16S
ATOM	29014	C2*	U	A1372	240.140	144.321	-9.795	1.00	76.00	A16S
ATOM	29015	O2*	U	A1372	241.246	143.917	-10.576	1.00	76.00	A16S
ATOM	29016	C3*	U	A1372	240.239	145.787	-9.400	1.00	76.00	A16S
ATOM	29017	O3*	U	A1372	240.776	146.560	-10.458	1.00	76.00	A16S
ATOM	29018	P	G	A1373	239.781	147.220	-11.532	1.00	76.53	A16S
ATOM	29019	O1P	G	A1373	240.558	147.716	-12.703	1.00	96.28	A16S
ATOM	29020	O2P	G	A1373	238.881	148.148	-10.801	1.00	96.28	A16S
ATOM	29021	O5*	G	A1373	238.870	146.011	-12.031	1.00	76.53	A16S
ATOM	29022	C5*	G	A1373	239.379	144.997	-12.923	1.00	76.53	A16S



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ATOM	29023	C4*	G	A1373	238.321	143.938	-13.167	1.00	76.53	A16S
ATOM	29024	O4*	G	A1373	238.044	143.211	-11.939	1.00	76.53	A16S
ATOM	29025	C1*	G	A1373	236.666	142.913	-11.860	1.00	76.53	A16S
ATOM	29026	N9	G	A1373	236.098	143.681	-10.757	1.00	96.28	A16S
ATOM	29027	C4	G	A1373	234.990	143.350	-10.017	1.00	96.28	A16S
ATOM	29028	N3	G	A1373	234.263	142.224	-10.148	1.00	96.28	A16S
ATOM	29029	C2	G	A1373	233.255	142.188	-9.304	1.00	96.28	A16S
ATOM	29030	N2	G	A1373	232.441	141.127	-9.293	1.00	96.28	A16S
ATOM	29031	N1	G	A1373	232.970	143.185	-8.406	1.00	96.28	A16S
ATOM	29032	C6	G	A1373	233.689	144.362	-8.258	1.00	96.28	A16S
ATOM	29033	O6	G	A1373	233.324	145.207	-7.427	1.00	96.28	A16S
ATOM	29034	C5	G	A1373	234.796	144.405	-9.154	1.00	96.28	A16S
ATOM	29035	N7	G	A1373	235.778	145.368	-9.329	1.00	96.28	A16S
ATOM	29036	C8	G	A1373	236.531	144.894	-10.282	1.00	96.28	A16S
ATOM	29037	C2*	G	A1373	236.032	143.354	-13.176	1.00	76.53	A16S
ATOM	29038	O2*	G	A1373	236.044	142.283	-14.087	1.00	76.53	A16S
ATOM	29039	C3*	G	A1373	236.969	144.463	-13.609	1.00	76.53	A16S
ATOM	29040	O3*	G	A1373	236.921	144.671	-15.003	1.00	76.53	A16S
ATOM	29041	P	A	A1374	235.640	145.386	-15.640	1.00	74.63	A16S
ATOM	29042	O1P	A	A1374	235.946	145.784	-17.048	1.00	95.62	A16S
ATOM	29043	O2P	A	A1374	235.200	146.413	-14.669	1.00	95.62	A16S
ATOM	29044	O5*	A	A1374	234.546	144.233	-15.626	1.00	74.63	A16S
ATOM	29045	C5*	A	A1374	233.897	143.806	-16.840	1.00	74.63	A16S
ATOM	29046	C4*	A	A1374	234.544	142.537	-17.361	1.00	74.63	A16S
ATOM	29047	O4*	A	A1374	234.571	141.522	-16.322	1.00	74.63	A16S
ATOM	29048	C1*	A	A1374	234.316	140.250	-16.887	1.00	74.63	A16S
ATOM	29049	N9	A	A1374	233.086	139.729	-16.277	1.00	95.62	A16S
ATOM	29050	C4	A	A1374	232.516	138.494	-16.480	1.00	95.62	A16S
ATOM	29051	N3	A	A1374	232.946	137.523	-17.299	1.00	95.62	A16S
ATOM	29052	C2	A	A1374	232.148	136.465	-17.232	1.00	95.62	A16S
ATOM	29053	N1	A	A1374	231.051	136.275	-16.492	1.00	95.62	A16S
ATOM	29054	C6	A	A1374	230.645	137.264	-15.677	1.00	95.62	A16S
ATOM	29055	N6	A	A1374	229.556	137.059	-14.933	1.00	95.62	A16S
ATOM	29056	C5	A	A1374	231.404	138.451	-15.662	1.00	95.62	A16S
ATOM	29057	N7	A	A1374	231.262	139.642	-14.970	1.00	95.62	A16S
ATOM	29058	C8	A	A1374	232.277	140.365	-15.371	1.00	95.62	A16S
ATOM	29059	C2*	A	A1374	234.247	140.430	-18.406	1.00	74.63	A16S
ATOM	29060	O2*	A	A1374	235.530	140.223	-18.968	1.00	74.63	A16S
ATOM	29061	C3*	A	A1374	233.816	141.883	-18.520	1.00	74.63	A16S
ATOM	29062	O3*	A	A1374	234.167	142.467	-19.762	1.00	74.63	A16S
ATOM	29063	P	A	A1375	233.042	142.609	-20.890	1.00	71.21	A16S
ATOM	29064	O1P	A	A1375	233.654	143.224	-22.105	1.00	80.20	A16S
ATOM	29065	O2P	A	A1375	231.846	143.241	-20.265	1.00	80.20	A16S
ATOM	29066	O5*	A	A1375	232.686	141.089	-21.209	1.00	71.21	A16S
ATOM	29067	C5*	A	A1375	233.706	140.196	-21.687	1.00	71.21	A16S
ATOM	29068	C4*	A	A1375	233.143	138.816	-21.912	1.00	71.21	A16S
ATOM	29069	O4*	A	A1375	232.834	138.194	-20.642	1.00	71.21	A16S
ATOM	29070	C1*	A	A1375	231.688	137.375	-20.777	1.00	71.21	A16S
ATOM	29071	N9	A	A1375	230.667	137.907	-19.874	1.00	80.20	A16S
ATOM	29072	C4	A	A1375	229.486	137.318	-19.481	1.00	80.20	A16S
ATOM	29073	N3	A	A1375	229.013	136.113	-19.832	1.00	80.20	A16S
ATOM	29074	C2	A	A1375	227.834	135.878	-19.246	1.00	80.20	A16S
ATOM	29075	N1	A	A1375	227.124	136.661	-18.425	1.00	80.20	A16S
ATOM	29076	C6	A	A1375	227.617	137.874	-18.114	1.00	80.20	A16S
ATOM	29077	N6	A	A1375	226.889	138.674	-17.336	1.00	80.20	A16S
ATOM	29078	C5	A	A1375	228.871	138.230	-18.647	1.00	80.20	A16S
ATOM	29079	N7	A	A1375	229.653	139.363	-18.506	1.00	80.20	A16S
ATOM	29080	C8	A	A1375	230.701	139.122	-19.250	1.00	80.20	A16S
ATOM	29081	C2*	A	A1375	231.276	137.407	-22.255	1.00	71.21	A16S
ATOM	29082	O2*	A	A1375	231.852	136.308	-22.943	1.00	71.21	A16S
ATOM	29083	C3*	A	A1375	231.858	138.739	-22.709	1.00	71.21	A16S
ATOM	29084	O3*	A	A1375	232.114	138.785	-24.105	1.00	71.21	A16S
ATOM	29085	P	U	A1376	231.135	139.637	-25.066	1.00	81.18	A16S
ATOM	29086	O1P	U	A1376	231.615	139.465	-26.478	1.00	77.70	A16S
ATOM	29087	O2P	U	A1376	231.004	141.014	-24.490	1.00	77.70	A16S
ATOM	29088	O5*	U	A1376	229.735	138.879	-24.928	1.00	81.18	A16S
ATOM	29089	C5*	U	A1376	229.631	137.482	-25.296	1.00	81.18	A16S
ATOM	29090	C4*	U	A1376	228.357	136.857	-24.762	1.00	81.18	A16S
ATOM	29091	O4*	U	A1376	228.405	136.725	-23.318	1.00	81.18	A16S
ATOM	29092	C1*	U	A1376	227.096	136.829	-22.798	1.00	81.18	A16S
ATOM	29093	N1	U	A1376	227.040	137.983	-21.889	1.00	77.70	A16S
ATOM	29094	C6	U	A1376	227.986	138.980	-21.910	1.00	77.70	A16S
ATOM	29095	C2	U	A1376	225.969	138.049	-21.031	1.00	77.70	A16S
ATOM	29096	O2	U	A1376	225.139	137.171	-20.950	1.00	77.70	A16S
ATOM	29097	N3	U	A1376	225.899	139.181	-20.269	1.00	77.70	A16S
ATOM	29098	C4	U	A1376	226.774	140.231	-20.267	1.00	77.70	A16S
ATOM	29099	O4	U	A1376	226.508	141.232	-19.595	1.00	77.70	A16S



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ATOM	29100	C5	U	A1376	227.893	140.075	-21.152	1.00	77.70	A16S
ATOM	29101	C2*	U	A1376	226.131	137.011	-23.979	1.00	81.18	A16S
ATOM	29102	O2*	U	A1376	225.556	135.775	-24.350	1.00	81.18	A16S
ATOM	29103	C3*	U	A1376	227.050	137.570	-25.054	1.00	81.18	A16S
ATOM	29104	O3*	U	A1376	226.573	137.266	-26.358	1.00	81.18	A16S
ATOM	29105	P	A	A1377	225.622	138.311	-27.117	1.00	71.17	A16S
ATOM	29106	O1P	A	A1377	225.626	137.968	-28.572	1.00	82.24	A16S
ATOM	29107	O2P	A	A1377	226.015	139.676	-26.682	1.00	82.24	A16S
ATOM	29108	O5*	A	A1377	224.176	138.012	-26.519	1.00	71.17	A16S
ATOM	29109	C5*	A	A1377	223.472	136.810	-26.871	1.00	71.17	A16S
ATOM	29110	C4*	A	A1377	222.237	136.634	-26.015	1.00	71.17	A16S
ATOM	29111	O4*	A	A1377	222.618	136.413	-24.632	1.00	71.17	A16S
ATOM	29112	C1*	A	A1377	221.615	136.941	-23.776	1.00	71.17	A16S
ATOM	29113	N9	A	A1377	222.187	138.026	-22.982	1.00	82.24	A16S
ATOM	29114	C4	A	A1377	221.734	138.479	-21.768	1.00	82.24	A16S
ATOM	29115	N3	A	A1377	220.739	137.971	-21.024	1.00	82.24	A16S
ATOM	29116	C2	A	A1377	220.557	138.703	-19.923	1.00	82.24	A16S
ATOM	29117	N1	A	A1377	221.203	139.804	-19.520	1.00	82.24	A16S
ATOM	29118	C6	A	A1377	222.195	140.285	-20.299	1.00	82.24	A16S
ATOM	29119	N6	A	A1377	222.834	141.393	-19.918	1.00	82.24	A16S
ATOM	29120	C5	A	A1377	222.494	139.592	-21.477	1.00	82.24	A16S
ATOM	29121	N7	A	A1377	223.444	139.804	-22.457	1.00	82.24	A16S
ATOM	29122	C8	A	A1377	223.227	138.843	-23.318	1.00	82.24	A16S
ATOM	29123	C2*	A	A1377	220.506	137.511	-24.661	1.00	71.17	A16S
ATOM	29124	O2*	A	A1377	219.472	136.556	-24.800	1.00	71.17	A16S
ATOM	29125	C3*	A	A1377	221.262	137.796	-25.953	1.00	71.17	A16S
ATOM	29126	O3*	A	A1377	220.400	137.862	-27.074	1.00	71.17	A16S
ATOM	29127	P	C	A1378	219.422	139.133	-27.248	1.00	81.15	A16S
ATOM	29128	O1P	C	A1378	220.266	140.356	-27.147	1.00	81.63	A16S
ATOM	29129	O2P	C	A1378	218.230	138.979	-26.351	1.00	81.63	A16S
ATOM	29130	O5*	C	A1378	218.900	139.009	-28.744	1.00	81.15	A16S
ATOM	29131	C5*	C	A1378	219.680	139.507	-29.840	1.00	81.15	A16S
ATOM	29132	C4*	C	A1378	219.509	138.616	-31.037	1.00	81.15	A16S
ATOM	29133	O4*	C	A1378	220.254	137.391	-30.853	1.00	81.15	A16S
ATOM	29134	C1*	C	A1378	219.533	136.309	-31.409	1.00	81.15	A16S
ATOM	29135	N1	C	A1378	219.369	135.268	-30.380	1.00	81.63	A16S
ATOM	29136	C6	C	A1378	219.556	135.548	-29.055	1.00	81.63	A16S
ATOM	29137	C2	C	A1378	219.050	133.959	-30.787	1.00	81.63	A16S
ATOM	29138	O2	C	A1378	218.813	133.736	-31.997	1.00	81.63	A16S
ATOM	29139	N3	C	A1378	218.999	132.973	-29.855	1.00	81.63	A16S
ATOM	29140	C4	C	A1378	219.225	133.255	-28.571	1.00	81.63	A16S
ATOM	29141	N4	C	A1378	219.195	132.248	-27.699	1.00	81.63	A16S
ATOM	29142	C5	C	A1378	219.498	134.581	-28.128	1.00	81.63	A16S
ATOM	29143	C2*	C	A1378	218.234	136.850	-32.003	1.00	81.15	A16S
ATOM	29144	O2*	C	A1378	218.408	137.011	-33.396	1.00	81.15	A16S
ATOM	29145	C3*	C	A1378	218.080	138.167	-31.254	1.00	81.15	A16S
ATOM	29146	O3*	C	A1378	217.326	139.146	-31.946	1.00	81.15	A16S
ATOM	29147	P	G	A1379	215.797	139.376	-31.532	1.00	92.39	A16S
ATOM	29148	O1P	G	A1379	215.113	140.111	-32.641	1.00	80.14	A16S
ATOM	29149	O2P	G	A1379	215.770	139.917	-30.144	1.00	80.14	A16S
ATOM	29150	O5*	G	A1379	215.211	137.899	-31.526	1.00	92.39	A16S
ATOM	29151	C5*	G	A1379	214.504	137.359	-30.402	1.00	92.39	A16S
ATOM	29152	C4*	G	A1379	214.653	135.862	-30.406	1.00	92.39	A16S
ATOM	29153	O4*	G	A1379	215.913	135.505	-29.791	1.00	92.39	A16S
ATOM	29154	C1*	G	A1379	215.776	134.266	-29.126	1.00	92.39	A16S
ATOM	29155	N9	G	A1379	216.161	134.433	-27.730	1.00	80.14	A16S
ATOM	29156	C4	G	A1379	216.305	133.427	-26.807	1.00	80.14	A16S
ATOM	29157	N3	G	A1379	216.113	132.113	-27.035	1.00	80.14	A16S
ATOM	29158	C2	G	A1379	216.346	131.387	-25.953	1.00	80.14	A16S
ATOM	29159	N2	G	A1379	216.227	130.061	-26.012	1.00	80.14	A16S
ATOM	29160	N1	G	A1379	216.718	131.908	-24.741	1.00	80.14	A16S
ATOM	29161	C6	G	A1379	216.919	133.257	-24.484	1.00	80.14	A16S
ATOM	29162	O6	G	A1379	217.264	133.624	-23.354	1.00	80.14	A16S
ATOM	29163	C5	G	A1379	216.684	134.050	-25.639	1.00	80.14	A16S
ATOM	29164	N7	G	A1379	216.773	135.423	-25.821	1.00	80.14	A16S
ATOM	29165	C8	G	A1379	216.453	135.604	-27.074	1.00	80.14	A16S
ATOM	29166	C2*	G	A1379	214.336	133.778	-29.308	1.00	92.39	A16S
ATOM	29167	O2*	G	A1379	214.312	132.817	-30.344	1.00	92.39	A16S
ATOM	29168	C3*	G	A1379	213.601	135.073	-29.651	1.00	92.39	A16S
ATOM	29169	O3*	G	A1379	212.482	134.844	-30.510	1.00	92.39	A16S
ATOM	29170	P	U	A1380	210.987	134.848	-29.912	1.00	100.88	A16S
ATOM	29171	O1P	U	A1380	210.054	134.775	-31.072	1.00	89.23	A16S
ATOM	29172	O2P	U	A1380	210.847	135.947	-28.923	1.00	89.23	A16S
ATOM	29173	O5*	U	A1380	210.886	133.472	-29.129	1.00	100.88	A16S
ATOM	29174	C5*	U	A1380	210.765	132.232	-29.838	1.00	100.88	A16S
ATOM	29175	C4*	U	A1380	210.566	131.127	-28.854	1.00	100.88	A16S
ATOM	29176	O4*	U	A1380	211.741	131.090	-28.024	1.00	100.88	A16S



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ATOM	29177	C1*	U	A1380	211.373	130.854	-26.690	1.00100.88	A16S
ATOM	29178	N1	U	A1380	212.166	131.732	-25.825	1.00 89.23	A16S
ATOM	29179	C6	U	A1380	212.459	133.022	-26.179	1.00 89.23	A16S
ATOM	29180	C2	U	A1380	212.630	131.194	-24.639	1.00 89.23	A16S
ATOM	29181	O2	U	A1380	212.386	130.054	-24.285	1.00 89.23	A16S
ATOM	29182	N3	U	A1380	213.393	132.035	-23.880	1.00 89.23	A16S
ATOM	29183	C4	U	A1380	213.729	133.327	-24.171	1.00 89.23	A16S
ATOM	29184	O4	U	A1380	214.398	133.965	-23.361	1.00 89.23	A16S
ATOM	29185	C5	U	A1380	213.210	133.819	-25.416	1.00 89.23	A16S
ATOM	29186	C2*	U	A1380	209.848	130.868	-26.555	1.00100.88	A16S
ATOM	29187	O2*	U	A1380	209.414	129.575	-26.204	1.00100.88	A16S
ATOM	29188	C3*	U	A1380	209.413	131.420	-27.914	1.00100.88	A16S
ATOM	29189	O3*	U	A1380	208.153	131.045	-28.517	1.00100.88	A16S
ATOM	29190	P	U	A1381	207.709	129.487	-28.707	1.00 84.36	A16S
ATOM	29191	O1P	U	A1381	206.492	129.591	-29.564	1.00100.39	A16S
ATOM	29192	O2P	U	A1381	207.617	128.763	-27.413	1.00100.39	A16S
ATOM	29193	O5*	U	A1381	208.820	128.756	-29.600	1.00 84.36	A16S
ATOM	29194	C5*	U	A1381	208.401	127.857	-30.661	1.00 84.36	A16S
ATOM	29195	C4*	U	A1381	209.229	126.579	-30.702	1.00 84.36	A16S
ATOM	29196	O4*	U	A1381	210.573	126.873	-31.156	1.00 84.36	A16S
ATOM	29197	C1*	U	A1381	211.465	125.895	-30.656	1.00 84.36	A16S
ATOM	29198	N1	U	A1381	212.579	126.565	-29.963	1.00100.39	A16S
ATOM	29199	C6	U	A1381	212.695	127.930	-29.942	1.00100.39	A16S
ATOM	29200	C2	U	A1381	213.517	125.770	-29.338	1.00100.39	A16S
ATOM	29201	O2	U	A1381	213.445	124.558	-29.312	1.00100.39	A16S
ATOM	29202	N3	U	A1381	214.543	126.444	-28.738	1.00100.39	A16S
ATOM	29203	C4	U	A1381	214.726	127.802	-28.694	1.00100.39	A16S
ATOM	29204	O4	U	A1381	215.749	128.258	-28.176	1.00100.39	A16S
ATOM	29205	C5	U	A1381	213.706	128.558	-29.345	1.00100.39	A16S
ATOM	29206	C2*	U	A1381	210.663	124.923	-29.783	1.00 84.36	A16S
ATOM	29207	O2*	U	A1381	210.370	123.756	-30.521	1.00 84.36	A16S
ATOM	29208	C3*	U	A1381	209.411	125.728	-29.452	1.00 84.36	A16S
ATOM	29209	O3*	U	A1381	208.342	124.814	-29.221	1.00 84.36	A16S
ATOM	29210	P	C	A1382	208.127	124.192	-27.742	1.00 77.77	A16S
ATOM	29211	O1P	C	A1382	206.967	123.260	-27.752	1.00 99.21	A16S
ATOM	29212	O2P	C	A1382	208.136	125.340	-26.793	1.00 99.21	A16S
ATOM	29213	O5*	C	A1382	209.432	123.324	-27.452	1.00 77.77	A16S
ATOM	29214	C5*	C	A1382	209.712	122.135	-28.200	1.00 77.77	A16S
ATOM	29215	C4*	C	A1382	211.033	121.546	-27.773	1.00 77.77	A16S
ATOM	29216	O4*	C	A1382	212.107	122.473	-28.063	1.00 77.77	A16S
ATOM	29217	C1*	C	A1382	213.102	122.375	-27.054	1.00 77.77	A16S
ATOM	29218	N1	C	A1382	213.316	123.712	-26.455	1.00 99.21	A16S
ATOM	29219	C6	C	A1382	212.336	124.664	-26.490	1.00 99.21	A16S
ATOM	29220	C2	C	A1382	214.551	123.996	-25.848	1.00 99.21	A16S
ATOM	29221	O2	C	A1382	215.424	123.113	-25.806	1.00 99.21	A16S
ATOM	29222	N3	C	A1382	214.759	125.220	-25.317	1.00 99.21	A16S
ATOM	29223	C4	C	A1382	213.795	126.138	-25.361	1.00 99.21	A16S
ATOM	29224	N4	C	A1382	214.044	127.329	-24.819	1.00 99.21	A16S
ATOM	29225	C5	C	A1382	212.532	125.876	-25.960	1.00 99.21	A16S
ATOM	29226	C2*	C	A1382	212.657	121.311	-26.046	1.00 77.77	A16S
ATOM	29227	O2*	C	A1382	213.291	120.076	-26.314	1.00 77.77	A16S
ATOM	29228	C3*	C	A1382	211.157	121.269	-26.288	1.00 77.77	A16S
ATOM	29229	O3*	C	A1382	210.595	120.020	-25.960	1.00 77.77	A16S
ATOM	29230	P	C	A1383	209.607	119.919	-24.703	1.00 73.36	A16S
ATOM	29231	O1P	C	A1383	208.872	118.625	-24.795	1.00 75.37	A16S
ATOM	29232	O2P	C	A1383	208.833	121.211	-24.664	1.00 75.37	A16S
ATOM	29233	O5*	C	A1383	210.603	119.795	-23.467	1.00 73.36	A16S
ATOM	29234	C5*	C	A1383	211.397	118.623	-23.328	1.00 73.36	A16S
ATOM	29235	C4*	C	A1383	212.455	118.833	-22.297	1.00 73.36	A16S
ATOM	29236	O4*	C	A1383	213.346	119.886	-22.720	1.00 73.36	A16S
ATOM	29237	C1*	C	A1383	213.826	120.588	-21.582	1.00 73.36	A16S
ATOM	29238	N1	C	A1383	213.494	122.019	-21.716	1.00 75.37	A16S
ATOM	29239	C6	C	A1383	212.661	122.472	-22.703	1.00 75.37	A16S
ATOM	29240	C2	C	A1383	214.051	122.914	-20.806	1.00 75.37	A16S
ATOM	29241	O2	C	A1383	214.789	122.468	-19.918	1.00 75.37	A16S
ATOM	29242	N3	C	A1383	213.769	124.233	-20.909	1.00 75.37	A16S
ATOM	29243	C4	C	A1383	212.959	124.666	-21.872	1.00 75.37	A16S
ATOM	29244	N4	C	A1383	212.705	125.974	-21.937	1.00 75.37	A16S
ATOM	29245	C5	C	A1383	212.370	123.777	-22.815	1.00 75.37	A16S
ATOM	29246	C2*	C	A1383	213.181	119.964	-20.346	1.00 73.36	A16S
ATOM	29247	O2*	C	A1383	214.064	119.043	-19.736	1.00 73.36	A16S
ATOM	29248	C3*	C	A1383	211.956	119.302	-20.952	1.00 73.36	A16S
ATOM	29249	O3*	C	A1383	211.473	118.241	-20.168	1.00 73.36	A16S
ATOM	29250	P	C	A1384	210.120	118.453	-19.341	1.00 81.13	A16S
ATOM	29251	O1P	C	A1384	209.692	117.137	-18.788	1.00 64.38	A16S
ATOM	29252	O2P	C	A1384	209.190	119.228	-20.210	1.00 64.38	A16S
ATOM	29253	O5*	C	A1384	210.571	119.371	-18.125	1.00 81.13	A16S



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ATOM	29254	C5*	C	A1384	211.381	118.824	-17.091	1.00	81.13	A16S
ATOM	29255	C4*	C	A1384	211.673	119.864	-16.058	1.00	81.13	A16S
ATOM	29256	O4*	C	A1384	212.501	120.896	-16.640	1.00	81.13	A16S
ATOM	29257	C1*	C	A1384	212.218	122.139	-16.020	1.00	81.13	A16S
ATOM	29258	N1	C	A1384	211.732	123.082	-17.044	1.00	64.38	A16S
ATOM	29259	C6	C	A1384	211.377	122.646	-18.292	1.00	64.38	A16S
ATOM	29260	C2	C	A1384	211.625	124.452	-16.712	1.00	64.38	A16S
ATOM	29261	O2	C	A1384	211.970	124.829	-15.577	1.00	64.38	A16S
ATOM	29262	N3	C	A1384	211.153	125.323	-17.642	1.00	64.38	A16S
ATOM	29263	C4	C	A1384	210.809	124.879	-18.856	1.00	64.38	A16S
ATOM	29264	N4	C	A1384	210.354	125.766	-19.742	1.00	64.38	A16S
ATOM	29265	C5	C	A1384	210.917	123.500	-19.218	1.00	64.38	A16S
ATOM	29266	C2*	C	A1384	211.159	121.876	-14.953	1.00	81.13	A16S
ATOM	29267	O2*	C	A1384	211.798	121.646	-13.704	1.00	81.13	A16S
ATOM	29268	C3*	C	A1384	210.488	120.630	-15.510	1.00	81.13	A16S
ATOM	29269	O3*	C	A1384	209.749	119.911	-14.538	1.00	81.13	A16S
ATOM	29270	P	G	A1385	208.147	120.092	-14.477	1.00	83.28	A16S
ATOM	29271	O1P	G	A1385	207.629	119.021	-13.559	1.00	63.01	A16S
ATOM	29272	O2P	G	A1385	207.617	120.212	-15.881	1.00	63.01	A16S
ATOM	29273	O5*	G	A1385	207.957	121.497	-13.749	1.00	83.28	A16S
ATOM	29274	C5*	G	A1385	208.481	121.699	-12.429	1.00	83.28	A16S
ATOM	29275	C4*	G	A1385	208.334	123.137	-12.018	1.00	83.28	A16S
ATOM	29276	O4*	G	A1385	209.265	123.986	-12.735	1.00	83.28	A16S
ATOM	29277	C1*	G	A1385	208.688	125.266	-12.938	1.00	83.28	A16S
ATOM	29278	N9	G	A1385	208.507	125.474	-14.367	1.00	63.01	A16S
ATOM	29279	C4	G	A1385	208.304	126.678	-15.006	1.00	63.01	A16S
ATOM	29280	N3	G	A1385	208.305	127.894	-14.430	1.00	63.01	A16S
ATOM	29281	C2	G	A1385	208.056	128.860	-15.309	1.00	63.01	A16S
ATOM	29282	N2	G	A1385	208.068	130.141	-14.927	1.00	63.01	A16S
ATOM	29283	N1	G	A1385	207.789	128.644	-16.632	1.00	63.01	A16S
ATOM	29284	C6	G	A1385	207.761	127.398	-17.242	1.00	63.01	A16S
ATOM	29285	O6	G	A1385	207.462	127.307	-18.441	1.00	63.01	A16S
ATOM	29286	C5	G	A1385	208.074	126.356	-16.321	1.00	63.01	A16S
ATOM	29287	N7	G	A1385	208.174	124.986	-16.517	1.00	63.01	A16S
ATOM	29288	C8	G	A1385	208.441	124.507	-15.334	1.00	63.01	A16S
ATOM	29289	C2*	G	A1385	207.311	125.243	-12.287	1.00	83.28	A16S
ATOM	29290	O2*	G	A1385	207.414	125.792	-10.993	1.00	83.28	A16S
ATOM	29291	C3*	G	A1385	206.993	123.755	-12.317	1.00	83.28	A16S
ATOM	29292	O3*	G	A1385	205.997	123.343	-11.409	1.00	83.28	A16S
ATOM	29293	P	G	A1386	204.471	123.254	-11.913	1.00	80.77	A16S
ATOM	29294	O1P	G	A1386	203.714	122.654	-10.771	1.00	69.60	A16S
ATOM	29295	O2P	G	A1386	204.396	122.623	-13.280	1.00	69.60	A16S
ATOM	29296	O5*	G	A1386	204.046	124.786	-12.039	1.00	80.77	A16S
ATOM	29297	C5*	G	A1386	204.180	125.653	-10.904	1.00	80.77	A16S
ATOM	29298	C4*	G	A1386	204.055	127.091	-11.313	1.00	80.77	A16S
ATOM	29299	O4*	G	A1386	205.133	127.452	-12.207	1.00	80.77	A16S
ATOM	29300	C1*	G	A1386	204.689	128.466	-13.089	1.00	80.77	A16S
ATOM	29301	N9	G	A1386	204.776	127.984	-14.462	1.00	69.60	A16S
ATOM	29302	C4	G	A1386	204.621	128.753	-15.590	1.00	69.60	A16S
ATOM	29303	N3	G	A1386	204.413	130.081	-15.614	1.00	69.60	A16S
ATOM	29304	C2	G	A1386	204.274	130.536	-16.837	1.00	69.60	A16S
ATOM	29305	N2	G	A1386	204.064	131.837	-17.031	1.00	69.60	A16S
ATOM	29306	N1	G	A1386	204.332	129.749	-17.958	1.00	69.60	A16S
ATOM	29307	C6	G	A1386	204.546	128.375	-17.957	1.00	69.60	A16S
ATOM	29308	O6	G	A1386	204.579	127.750	-19.025	1.00	69.60	A16S
ATOM	29309	C5	G	A1386	204.699	127.876	-16.643	1.00	69.60	A16S
ATOM	29310	N7	G	A1386	204.927	126.582	-16.193	1.00	69.60	A16S
ATOM	29311	C8	G	A1386	204.975	126.696	-14.894	1.00	69.60	A16S
ATOM	29312	C2*	G	A1386	203.227	128.754	-12.761	1.00	80.77	A16S
ATOM	29313	O2*	G	A1386	203.123	129.890	-11.928	1.00	80.77	A16S
ATOM	29314	C3*	G	A1386	202.810	127.463	-12.082	1.00	80.77	A16S
ATOM	29315	O3*	G	A1386	201.691	127.653	-11.251	1.00	80.77	A16S
ATOM	29316	P	G	A1387	200.221	127.638	-11.897	1.00	80.87	A16S
ATOM	29317	O1P	G	A1387	199.304	127.420	-10.748	1.00	66.89	A16S
ATOM	29318	O2P	G	A1387	200.181	126.702	-13.049	1.00	66.89	A16S
ATOM	29319	O5*	G	A1387	200.039	129.113	-12.469	1.00	80.87	A16S
ATOM	29320	C5*	G	A1387	200.066	130.235	-11.585	1.00	80.87	A16S
ATOM	29321	C4*	G	A1387	199.778	131.497	-12.342	1.00	80.87	A16S
ATOM	29322	O4*	G	A1387	200.874	131.764	-13.249	1.00	80.87	A16S
ATOM	29323	C1*	G	A1387	200.370	132.308	-14.458	1.00	80.87	A16S
ATOM	29324	N9	G	A1387	200.669	131.359	-15.527	1.00	66.89	A16S
ATOM	29325	C4	G	A1387	200.565	131.589	-16.878	1.00	66.89	A16S
ATOM	29326	N3	G	A1387	200.176	132.741	-17.457	1.00	66.89	A16S
ATOM	29327	C2	G	A1387	200.147	132.642	-18.770	1.00	66.89	A16S
ATOM	29328	N2	G	A1387	199.772	133.686	-19.496	1.00	66.89	A16S
ATOM	29329	N1	G	A1387	200.484	131.512	-19.465	1.00	66.89	A16S
ATOM	29330	C6	G	A1387	200.903	130.321	-18.892	1.00	66.89	A16S



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ATOM	29331	O6	G	A1387	201.210	129.367	-19.610	1.00	66.89	A16S
ATOM	29332	C5	G	A1387	200.921	130.401	-17.480	1.00	66.89	A16S
ATOM	29333	N7	G	A1387	201.247	129.443	-16.528	1.00	66.89	A16S
ATOM	29334	C8	G	A1387	201.089	130.055	-15.387	1.00	66.89	A16S
ATOM	29335	C2*	G	A1387	198.856	132.494	-14.290	1.00	80.87	A16S
ATOM	29336	O2*	G	A1387	198.523	133.815	-13.891	1.00	80.87	A16S
ATOM	29337	C3*	G	A1387	198.542	131.453	-13.226	1.00	80.87	A16S
ATOM	29338	O3*	G	A1387	197.343	131.739	-12.517	1.00	80.87	A16S
ATOM	29339	P	C	A1388	195.961	131.071	-12.997	1.00	69.15	A16S
ATOM	29340	O1P	C	A1388	194.932	131.385	-11.966	1.00	91.92	A16S
ATOM	29341	O2P	C	A1388	196.224	129.645	-13.346	1.00	91.92	A16S
ATOM	29342	O5*	C	A1388	195.607	131.879	-14.323	1.00	69.15	A16S
ATOM	29343	C5*	C	A1388	195.390	133.289	-14.261	1.00	69.15	A16S
ATOM	29344	C4*	C	A1388	194.993	133.819	-15.611	1.00	69.15	A16S
ATOM	29345	O4*	C	A1388	196.151	133.860	-16.483	1.00	69.15	A16S
ATOM	29346	C1*	C	A1388	195.757	133.557	-17.810	1.00	69.15	A16S
ATOM	29347	N1	C	A1388	196.424	132.302	-18.202	1.00	91.92	A16S
ATOM	29348	C6	C	A1388	196.773	131.374	-17.261	1.00	91.92	A16S
ATOM	29349	C2	C	A1388	196.687	132.067	-19.549	1.00	91.92	A16S
ATOM	29350	O2	C	A1388	196.362	132.923	-20.376	1.00	91.92	A16S
ATOM	29351	N3	C	A1388	197.289	130.911	-19.914	1.00	91.92	A16S
ATOM	29352	C4	C	A1388	197.622	130.011	-18.986	1.00	91.92	A16S
ATOM	29353	N4	C	A1388	198.211	128.880	-19.382	1.00	91.92	A16S
ATOM	29354	C5	C	A1388	197.367	130.228	-17.606	1.00	91.92	A16S
ATOM	29355	C2*	C	A1388	194.231	133.422	-17.816	1.00	69.15	A16S
ATOM	29356	O2*	C	A1388	193.634	134.659	-18.172	1.00	69.15	A16S
ATOM	29357	C3*	C	A1388	193.957	133.011	-16.373	1.00	69.15	A16S
ATOM	29358	O3*	C	A1388	192.624	133.276	-15.949	1.00	69.15	A16S
ATOM	29359	P	C	A1389	191.478	132.161	-16.170	1.00	74.12	A16S
ATOM	29360	O1P	C	A1389	190.254	132.610	-15.472	1.00	73.87	A16S
ATOM	29361	O2P	C	A1389	192.033	130.817	-15.862	1.00	73.87	A16S
ATOM	29362	O5*	C	A1389	191.172	132.262	-17.725	1.00	74.12	A16S
ATOM	29363	C5*	C	A1389	190.506	133.408	-18.248	1.00	74.12	A16S
ATOM	29364	C4*	C	A1389	190.347	133.271	-19.733	1.00	74.12	A16S
ATOM	29365	O4*	C	A1389	191.665	133.273	-20.337	1.00	74.12	A16S
ATOM	29366	C1*	C	A1389	191.685	132.396	-21.454	1.00	74.12	A16S
ATOM	29367	N1	C	A1389	192.585	131.275	-21.143	1.00	73.87	A16S
ATOM	29368	C6	C	A1389	192.796	130.888	-19.849	1.00	73.87	A16S
ATOM	29369	C2	C	A1389	193.217	130.607	-22.191	1.00	73.87	A16S
ATOM	29370	O2	C	A1389	193.000	130.974	-23.360	1.00	73.87	A16S
ATOM	29371	N3	C	A1389	194.047	129.577	-21.908	1.00	73.87	A16S
ATOM	29372	C4	C	A1389	194.248	129.211	-20.640	1.00	73.87	A16S
ATOM	29373	N4	C	A1389	195.075	128.193	-20.403	1.00	73.87	A16S
ATOM	29374	C5	C	A1389	193.609	129.874	-19.557	1.00	73.87	A16S
ATOM	29375	C2*	C	A1389	190.267	131.876	-21.642	1.00	74.12	A16S
ATOM	29376	O2*	C	A1389	189.550	132.684	-22.562	1.00	74.12	A16S
ATOM	29377	C3*	C	A1389	189.739	131.969	-20.222	1.00	74.12	A16S
ATOM	29378	O3*	C	A1389	188.336	131.894	-20.174	1.00	74.12	A16S
ATOM	29379	P	U	A1390	187.654	130.460	-19.952	1.00	81.25	A16S
ATOM	29380	O1P	U	A1390	186.179	130.643	-19.862	1.00	77.40	A16S
ATOM	29381	O2P	U	A1390	188.392	129.802	-18.846	1.00	77.40	A16S
ATOM	29382	O5*	U	A1390	187.962	129.651	-21.290	1.00	81.25	A16S
ATOM	29383	C5*	U	A1390	187.636	130.199	-22.581	1.00	81.25	A16S
ATOM	29384	C4*	U	A1390	188.220	129.338	-23.679	1.00	81.25	A16S
ATOM	29385	O4*	U	A1390	189.668	129.303	-23.564	1.00	81.25	A16S
ATOM	29386	C1*	U	A1390	190.153	128.041	-23.995	1.00	81.25	A16S
ATOM	29387	N1	U	A1390	190.897	127.395	-22.897	1.00	77.40	A16S
ATOM	29388	C6	U	A1390	190.784	127.785	-21.585	1.00	77.40	A16S
ATOM	29389	C2	U	A1390	191.720	126.352	-23.241	1.00	77.40	A16S
ATOM	29390	O2	U	A1390	191.865	125.989	-24.386	1.00	77.40	A16S
ATOM	29391	N3	U	A1390	192.374	125.743	-22.200	1.00	77.40	A16S
ATOM	29392	C4	U	A1390	192.301	126.065	-20.873	1.00	77.40	A16S
ATOM	29393	O4	U	A1390	192.921	125.379	-20.049	1.00	77.40	A16S
ATOM	29394	C5	U	A1390	191.442	127.173	-20.585	1.00	77.40	A16S
ATOM	29395	C2*	U	A1390	188.949	127.219	-24.451	1.00	81.25	A16S
ATOM	29396	O2*	U	A1390	188.766	127.377	-25.846	1.00	81.25	A16S
ATOM	29397	C3*	U	A1390	187.824	127.872	-23.666	1.00	81.25	A16S
ATOM	29398	O3*	U	A1390	186.580	127.660	-24.293	1.00	81.25	A16S
ATOM	29399	P	U	A1391	185.660	126.437	-23.820	1.00	71.65	A16S
ATOM	29400	O1P	U	A1391	184.340	126.611	-24.497	1.00	70.27	A16S
ATOM	29401	O2P	U	A1391	185.733	126.354	-22.328	1.00	70.27	A16S
ATOM	29402	O5*	U	A1391	186.389	125.164	-24.441	1.00	71.65	A16S
ATOM	29403	C5*	U	A1391	186.427	124.967	-25.865	1.00	71.65	A16S
ATOM	29404	C4*	U	A1391	187.140	123.685	-26.190	1.00	71.65	A16S
ATOM	29405	O4*	U	A1391	188.528	123.805	-25.805	1.00	71.65	A16S
ATOM	29406	C1*	U	A1391	188.999	122.557	-25.335	1.00	71.65	A16S
ATOM	29407	N1	U	A1391	189.536	122.734	-23.977	1.00	70.27	A16S



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ATOM	29408	C6	U	A1391	189.082	123.727	-23.145	1.00	70.27	A16S
ATOM	29409	C2	U	A1391	190.529	121.861	-23.566	1.00	70.27	A16S
ATOM	29410	O2	U	A1391	190.947	120.945	-24.269	1.00	70.27	A16S
ATOM	29411	N3	U	A1391	191.016	122.091	-22.302	1.00	70.27	A16S
ATOM	29412	C4	U	A1391	190.624	123.084	-21.425	1.00	70.27	A16S
ATOM	29413	O4	U	A1391	191.255	123.247	-20.372	1.00	70.27	A16S
ATOM	29414	C5	U	A1391	189.578	123.927	-21.917	1.00	70.27	A16S
ATOM	29415	C2*	U	A1391	187.851	121.550	-25.420	1.00	71.65	A16S
ATOM	29416	O2*	U	A1391	187.980	120.765	-26.588	1.00	71.65	A16S
ATOM	29417	C3*	U	A1391	186.634	122.464	-25.445	1.00	71.65	A16S
ATOM	29418	O3*	U	A1391	185.544	121.869	-26.125	1.00	71.65	A16S
ATOM	29419	P	G	A1392	184.618	120.804	-25.360	1.00	71.52	A16S
ATOM	29420	O1P	G	A1392	183.488	120.524	-26.292	1.00	67.81	A16S
ATOM	29421	O2P	G	A1392	184.334	121.257	-23.971	1.00	67.81	A16S
ATOM	29422	O5*	G	A1392	185.539	119.513	-25.229	1.00	71.52	A16S
ATOM	29423	C5*	G	A1392	185.789	118.676	-26.365	1.00	71.52	A16S
ATOM	29424	C4*	G	A1392	186.577	117.466	-25.948	1.00	71.52	A16S
ATOM	29425	O4*	G	A1392	187.920	117.868	-25.584	1.00	71.52	A16S
ATOM	29426	C1*	G	A1392	188.345	117.137	-24.446	1.00	71.52	A16S
ATOM	29427	N9	G	A1392	188.487	118.100	-23.364	1.00	67.81	A16S
ATOM	29428	C4	G	A1392	189.357	118.046	-22.307	1.00	67.81	A16S
ATOM	29429	N3	G	A1392	190.228	117.058	-22.047	1.00	67.81	A16S
ATOM	29430	C2	G	A1392	190.936	117.304	-20.962	1.00	67.81	A16S
ATOM	29431	N2	G	A1392	191.848	116.427	-20.549	1.00	67.81	A16S
ATOM	29432	N1	G	A1392	190.802	118.433	-20.201	1.00	67.81	A16S
ATOM	29433	C6	G	A1392	189.908	119.466	-20.455	1.00	67.81	A16S
ATOM	29434	O6	G	A1392	189.870	120.453	-19.715	1.00	67.81	A16S
ATOM	29435	C5	G	A1392	189.138	119.209	-21.599	1.00	67.81	A16S
ATOM	29436	N7	G	A1392	188.125	119.961	-22.180	1.00	67.81	A16S
ATOM	29437	C8	G	A1392	187.767	119.263	-23.219	1.00	67.81	A16S
ATOM	29438	C2*	G	A1392	187.260	116.106	-24.133	1.00	71.52	A16S
ATOM	29439	O2*	G	A1392	187.504	114.881	-24.793	1.00	71.52	A16S
ATOM	29440	C3*	G	A1392	186.035	116.776	-24.717	1.00	71.52	A16S
ATOM	29441	O3*	G	A1392	185.055	115.822	-25.024	1.00	71.52	A16S
ATOM	29442	P	U	A1393	184.042	115.363	-23.877	1.00	58.56	A16S
ATOM	29443	O1P	U	A1393	183.040	114.468	-24.506	1.00	67.45	A16S
ATOM	29444	O2P	U	A1393	183.582	116.604	-23.176	1.00	67.45	A16S
ATOM	29445	O5*	U	A1393	184.940	114.504	-22.875	1.00	58.56	A16S
ATOM	29446	C5*	U	A1393	185.513	113.259	-23.283	1.00	58.56	A16S
ATOM	29447	C4*	U	A1393	186.392	112.706	-22.190	1.00	58.56	A16S
ATOM	29448	O4*	U	A1393	187.543	113.566	-21.986	1.00	58.56	A16S
ATOM	29449	C1*	U	A1393	187.923	113.543	-20.619	1.00	58.56	A16S
ATOM	29450	N1	U	A1393	187.872	114.913	-20.082	1.00	67.45	A16S
ATOM	29451	C6	U	A1393	187.154	115.897	-20.701	1.00	67.45	A16S
ATOM	29452	C2	U	A1393	188.560	115.173	-18.912	1.00	67.45	A16S
ATOM	29453	O2	U	A1393	189.232	114.333	-18.337	1.00	67.45	A16S
ATOM	29454	N3	U	A1393	188.432	116.452	-18.436	1.00	67.45	A16S
ATOM	29455	C4	U	A1393	187.707	117.471	-18.995	1.00	67.45	A16S
ATOM	29456	O4	U	A1393	187.619	118.550	-18.406	1.00	67.45	A16S
ATOM	29457	C5	U	A1393	187.049	117.130	-20.210	1.00	67.45	A16S
ATOM	29458	C2*	U	A1393	186.965	112.602	-19.887	1.00	58.56	A16S
ATOM	29459	O2*	U	A1393	187.578	111.338	-19.749	1.00	58.56	A16S
ATOM	29460	C3*	U	A1393	185.753	112.598	-20.818	1.00	58.56	A16S
ATOM	29461	O3*	U	A1393	184.978	111.412	-20.699	1.00	58.56	A16S
ATOM	29462	P	A	A1394	183.749	111.352	-19.656	1.00	61.80	A16S
ATOM	29463	O1P	A	A1394	182.490	111.427	-20.448	1.00	71.61	A16S
ATOM	29464	O2P	A	A1394	183.988	112.328	-18.558	1.00	71.61	A16S
ATOM	29465	O5*	A	A1394	183.862	109.881	-19.071	1.00	61.80	A16S
ATOM	29466	C5*	A	A1394	183.603	109.598	-17.700	1.00	61.80	A16S
ATOM	29467	C4*	A	A1394	184.366	108.370	-17.301	1.00	61.80	A16S
ATOM	29468	O4*	A	A1394	184.251	107.407	-18.375	1.00	61.80	A16S
ATOM	29469	C1*	A	A1394	185.527	107.127	-18.912	1.00	61.80	A16S
ATOM	29470	N9	A	A1394	185.410	107.079	-20.365	1.00	71.61	A16S
ATOM	29471	C4	A	A1394	185.752	106.013	-21.146	1.00	71.61	A16S
ATOM	29472	N3	A	A1394	186.271	104.847	-20.733	1.00	71.61	A16S
ATOM	29473	C2	A	A1394	186.462	104.037	-21.765	1.00	71.61	A16S
ATOM	29474	N1	A	A1394	186.210	104.247	-23.069	1.00	71.61	A16S
ATOM	29475	C6	A	A1394	185.690	105.434	-23.445	1.00	71.61	A16S
ATOM	29476	N6	A	A1394	185.443	105.640	-24.738	1.00	71.61	A16S
ATOM	29477	C5	A	A1394	185.443	106.379	-22.441	1.00	71.61	A16S
ATOM	29478	N7	A	A1394	184.934	107.668	-22.478	1.00	71.61	A16S
ATOM	29479	C8	A	A1394	184.939	108.041	-21.224	1.00	71.61	A16S
ATOM	29480	C2*	A	A1394	186.456	108.239	-18.450	1.00	61.80	A16S
ATOM	29481	O2*	A	A1394	187.776	107.736	-18.384	1.00	61.80	A16S
ATOM	29482	C3*	A	A1394	185.854	108.586	-17.099	1.00	61.80	A16S
ATOM	29483	O3*	A	A1394	186.246	107.598	-16.171	1.00	61.80	A16S
ATOM	29484	P	C	A1395	186.273	107.949	-14.611	1.00	57.65	A16S



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ATOM	29485	O1P	C	A1395	186.246	106.657	-13.830	1.00	67.98	A16S
ATOM	29486	O2P	C	A1395	185.214	108.987	-14.385	1.00	67.98	A16S
ATOM	29487	O5*	C	A1395	187.672	108.677	-14.420	1.00	57.65	A16S
ATOM	29488	C5*	C	A1395	188.896	107.938	-14.409	1.00	57.65	A16S
ATOM	29489	C4*	C	A1395	189.993	108.842	-13.963	1.00	57.65	A16S
ATOM	29490	O4*	C	A1395	190.058	109.929	-14.910	1.00	57.65	A16S
ATOM	29491	C1*	C	A1395	190.310	111.135	-14.226	1.00	57.65	A16S
ATOM	29492	N1	C	A1395	189.325	112.140	-14.643	1.00	67.98	A16S
ATOM	29493	C6	C	A1395	188.244	111.798	-15.399	1.00	67.98	A16S
ATOM	29494	C2	C	A1395	189.537	113.467	-14.279	1.00	67.98	A16S
ATOM	29495	O2	C	A1395	190.503	113.740	-13.541	1.00	67.98	A16S
ATOM	29496	N3	C	A1395	188.693	114.416	-14.727	1.00	67.98	A16S
ATOM	29497	C4	C	A1395	187.663	114.075	-15.497	1.00	67.98	A16S
ATOM	29498	N4	C	A1395	186.876	115.049	-15.952	1.00	67.98	A16S
ATOM	29499	C5	C	A1395	187.399	112.725	-15.844	1.00	67.98	A16S
ATOM	29500	C2*	C	A1395	190.399	110.848	-12.730	1.00	57.65	A16S
ATOM	29501	O2*	C	A1395	191.773	110.824	-12.415	1.00	57.65	A16S
ATOM	29502	C3*	C	A1395	189.688	109.502	-12.632	1.00	57.65	A16S
ATOM	29503	O3*	C	A1395	190.150	108.668	-11.585	1.00	57.65	A16S
ATOM	29504	P	A	A1396	189.257	108.483	-10.268	1.00	65.69	A16S
ATOM	29505	O1P	A	A1396	190.014	107.593	-9.340	1.00	60.35	A16S
ATOM	29506	O2P	A	A1396	187.848	108.134	-10.649	1.00	60.35	A16S
ATOM	29507	O5*	A	A1396	189.240	109.947	-9.645	1.00	65.69	A16S
ATOM	29508	C5*	A	A1396	190.446	110.530	-9.123	1.00	65.69	A16S
ATOM	29509	C4*	A	A1396	190.127	111.758	-8.311	1.00	65.69	A16S
ATOM	29510	O4*	A	A1396	189.644	112.801	-9.185	1.00	65.69	A16S
ATOM	29511	C1*	A	A1396	188.408	113.272	-8.718	1.00	65.69	A16S
ATOM	29512	N9	A	A1396	187.626	113.688	-9.871	1.00	60.35	A16S
ATOM	29513	C4	A	A1396	187.198	114.969	-10.090	1.00	60.35	A16S
ATOM	29514	N3	A	A1396	187.369	116.026	-9.283	1.00	60.35	A16S
ATOM	29515	C2	A	A1396	186.855	117.125	-9.837	1.00	60.35	A16S
ATOM	29516	N1	A	A1396	186.234	117.267	-11.013	1.00	60.35	A16S
ATOM	29517	C6	A	A1396	186.069	116.176	-11.790	1.00	60.35	A16S
ATOM	29518	N6	A	A1396	185.438	116.316	-12.953	1.00	60.35	A16S
ATOM	29519	C5	A	A1396	186.575	114.954	-11.319	1.00	60.35	A16S
ATOM	29520	N7	A	A1396	186.580	113.675	-11.854	1.00	60.35	A16S
ATOM	29521	C8	A	A1396	187.208	112.961	-10.952	1.00	60.35	A16S
ATOM	29522	C2*	A	A1396	187.819	112.152	-7.873	1.00	65.69	A16S
ATOM	29523	O2*	A	A1396	186.942	112.698	-6.920	1.00	65.69	A16S
ATOM	29524	C3*	A	A1396	189.074	111.585	-7.226	1.00	65.69	A16S
ATOM	29525	O3*	A	A1396	189.432	112.421	-6.141	1.00	65.69	A16S
ATOM	29526	P	C	A1397	189.604	111.793	-4.687	1.00	90.12	A16S
ATOM	29527	O1P	C	A1397	189.682	112.947	-3.755	1.00	101.65	A16S
ATOM	29528	O2P	C	A1397	188.570	110.754	-4.494	1.00	101.65	A16S
ATOM	29529	O5*	C	A1397	191.010	111.054	-4.749	1.00	95.35	A16S
ATOM	29530	C5*	C	A1397	192.195	111.724	-5.227	1.00	95.35	A16S
ATOM	29531	C4*	C	A1397	193.413	110.950	-4.798	1.00	95.35	A16S
ATOM	29532	O4*	C	A1397	193.525	111.023	-3.359	1.00	95.35	A16S
ATOM	29533	C1*	C	A1397	193.951	109.773	-2.839	1.00	95.35	A16S
ATOM	29534	N1	C	A1397	192.969	109.314	-1.837	1.00	146.59	A16S
ATOM	29535	C6	C	A1397	191.722	108.892	-2.216	1.00	146.59	A16S
ATOM	29536	C2	C	A1397	193.336	109.314	-0.475	1.00	146.59	A16S
ATOM	29537	O2	C	A1397	194.475	109.698	-0.148	1.00	146.59	A16S
ATOM	29538	N3	C	A1397	192.438	108.897	0.445	1.00	146.59	A16S
ATOM	29539	C4	C	A1397	191.223	108.492	0.061	1.00	146.59	A16S
ATOM	29540	N4	C	A1397	190.370	108.094	1.008	1.00	146.59	A16S
ATOM	29541	C5	C	A1397	190.828	108.478	-1.311	1.00	146.59	A16S
ATOM	29542	C2*	C	A1397	194.166	108.804	-4.003	1.00	95.35	A16S
ATOM	29543	O2*	C	A1397	195.546	108.682	-4.272	1.00	95.35	A16S
ATOM	29544	C3*	C	A1397	193.347	109.459	-5.107	1.00	95.35	A16S
ATOM	29545	O3*	C	A1397	193.771	109.173	-6.442	1.00	95.35	A16S
ATOM	29546	P	A	A1398	195.263	109.562	-6.943	1.00	77.56	A16S
ATOM	29547	O1P	A	A1398	196.044	108.285	-7.025	1.00	80.44	A16S
ATOM	29548	O2P	A	A1398	195.837	110.748	-6.187	1.00	80.44	A16S
ATOM	29549	O5*	A	A1398	194.984	110.057	-8.431	1.00	77.56	A16S
ATOM	29550	C5*	A	A1398	195.432	111.337	-8.865	1.00	77.56	A16S
ATOM	29551	C4*	A	A1398	194.430	111.935	-9.789	1.00	77.56	A16S
ATOM	29552	O4*	A	A1398	193.271	112.381	-9.048	1.00	77.56	A16S
ATOM	29553	C1*	A	A1398	192.782	113.593	-9.614	1.00	77.56	A16S
ATOM	29554	N9	A	A1398	192.876	114.653	-8.607	1.00	80.44	A16S
ATOM	29555	C4	A	A1398	192.317	115.912	-8.687	1.00	80.44	A16S
ATOM	29556	N3	A	A1398	191.538	116.402	-9.668	1.00	80.44	A16S
ATOM	29557	C2	A	A1398	191.196	117.665	-9.409	1.00	80.44	A16S
ATOM	29558	N1	A	A1398	191.529	118.440	-8.369	1.00	80.44	A16S
ATOM	29559	C6	A	A1398	192.321	117.925	-7.410	1.00	80.44	A16S
ATOM	29560	N6	A	A1398	192.675	118.708	-6.392	1.00	80.44	A16S
ATOM	29561	C5	A	A1398	192.736	116.586	-7.554	1.00	80.44	A16S



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ATOM	29562	N7	A	A1398	193.518	115.761	-6.758	1.00	80.44	A16S
ATOM	29563	C8	A	A1398	193.563	114.628	-7.420	1.00	80.44	A16S
ATOM	29564	C2*	A	A1398	193.677	113.937	-10.806	1.00	77.56	A16S
ATOM	29565	O2*	A	A1398	193.108	113.540	-12.044	1.00	77.56	A16S
ATOM	29566	C3*	A	A1398	194.944	113.187	-10.439	1.00	77.56	A16S
ATOM	29567	O3*	A	A1398	195.718	112.861	-11.541	1.00	77.56	A16S
ATOM	29568	P	C	A1399	196.844	113.876	-12.018	1.00	60.71	A16S
ATOM	29569	O1P	C	A1399	197.635	114.287	-10.824	1.00	84.50	A16S
ATOM	29570	O2P	C	A1399	196.182	114.897	-12.854	1.00	84.50	A16S
ATOM	29571	O5*	C	A1399	197.761	112.970	-12.948	1.00	60.71	A16S
ATOM	29572	C5*	C	A1399	198.351	111.731	-12.461	1.00	60.71	A16S
ATOM	29573	C4*	C	A1399	198.948	110.959	-13.618	1.00	60.71	A16S
ATOM	29574	O4*	C	A1399	197.864	110.413	-14.416	1.00	60.71	A16S
ATOM	29575	C1*	C	A1399	197.961	110.909	-15.731	1.00	60.71	A16S
ATOM	29576	N1	C	A1399	196.603	111.029	-16.263	1.00	84.50	A16S
ATOM	29577	C6	C	A1399	195.731	111.951	-15.765	1.00	84.50	A16S
ATOM	29578	C2	C	A1399	196.212	110.173	-17.298	1.00	84.50	A16S
ATOM	29579	O2	C	A1399	197.020	109.342	-17.727	1.00	84.50	A16S
ATOM	29580	N3	C	A1399	194.965	110.272	-17.802	1.00	84.50	A16S
ATOM	29581	C4	C	A1399	194.120	111.177	-17.308	1.00	84.50	A16S
ATOM	29582	N4	C	A1399	192.896	111.240	-17.828	1.00	84.50	A16S
ATOM	29583	C5	C	A1399	194.491	112.058	-16.254	1.00	84.50	A16S
ATOM	29584	C2*	C	A1399	198.774	112.205	-15.636	1.00	60.71	A16S
ATOM	29585	O2*	C	A1399	199.358	112.622	-16.850	1.00	60.71	A16S
ATOM	29586	C3*	C	A1399	199.785	111.837	-14.554	1.00	60.71	A16S
ATOM	29587	O3*	C	A1399	200.857	111.098	-15.152	1.00	60.71	A16S
ATOM	29588	P	C	A1400	202.227	110.854	-14.344	1.00	64.84	A16S
ATOM	29589	O1P	C	A1400	202.597	112.116	-13.653	1.00	84.89	A16S
ATOM	29590	O2P	C	A1400	203.177	110.236	-15.307	1.00	84.89	A16S
ATOM	29591	O5*	C	A1400	201.851	109.747	-13.264	1.00	64.84	A16S
ATOM	29592	C5*	C	A1400	201.484	108.420	-13.690	1.00	64.84	A16S
ATOM	29593	C4*	C	A1400	201.624	107.451	-12.550	1.00	64.84	A16S
ATOM	29594	O4*	C	A1400	202.971	107.583	-12.031	1.00	64.84	A16S
ATOM	29595	C1*	C	A1400	202.925	107.928	-10.666	1.00	64.84	A16S
ATOM	29596	N1	C	A1400	204.039	108.836	-10.375	1.00	84.89	A16S
ATOM	29597	C6	C	A1400	204.380	109.828	-11.252	1.00	84.89	A16S
ATOM	29598	C2	C	A1400	204.763	108.661	-9.183	1.00	84.89	A16S
ATOM	29599	O2	C	A1400	204.415	107.773	-8.387	1.00	84.89	A16S
ATOM	29600	N3	C	A1400	205.818	109.467	-8.930	1.00	84.89	A16S
ATOM	29601	C4	C	A1400	206.152	110.423	-9.803	1.00	84.89	A16S
ATOM	29602	N4	C	A1400	207.203	111.190	-9.520	1.00	84.89	A16S
ATOM	29603	C5	C	A1400	205.421	110.634	-11.009	1.00	84.89	A16S
ATOM	29604	C2*	C	A1400	201.546	108.525	-10.420	1.00	64.84	A16S
ATOM	29605	O2*	C	A1400	201.201	108.373	-9.057	1.00	64.84	A16S
ATOM	29606	C3*	C	A1400	200.684	107.701	-11.378	1.00	64.84	A16S
ATOM	29607	O3*	C	A1400	200.347	106.448	-10.776	1.00	64.84	A16S
ATOM	29608	P	G	A1401	199.081	105.610	-11.313	1.00	71.78	A16S
ATOM	29609	O1P	G	A1401	198.660	104.665	-10.227	1.00	81.29	A16S
ATOM	29610	O2P	G	A1401	199.464	105.078	-12.656	1.00	81.29	A16S
ATOM	29611	O5*	G	A1401	197.926	106.691	-11.538	1.00	71.78	A16S
ATOM	29612	C5*	G	A1401	197.303	107.367	-10.431	1.00	71.78	A16S
ATOM	29613	C4*	G	A1401	195.934	107.881	-10.827	1.00	71.78	A16S
ATOM	29614	O4*	G	A1401	196.072	108.844	-11.906	1.00	71.78	A16S
ATOM	29615	C1*	G	A1401	194.982	108.711	-12.807	1.00	71.78	A16S
ATOM	29616	N9	G	A1401	195.486	108.144	-14.054	1.00	81.29	A16S
ATOM	29617	C4	G	A1401	194.782	107.986	-15.220	1.00	81.29	A16S
ATOM	29618	N3	G	A1401	193.528	108.420	-15.450	1.00	81.29	A16S
ATOM	29619	C2	G	A1401	193.100	108.072	-16.647	1.00	81.29	A16S
ATOM	29620	N2	G	A1401	191.876	108.439	-17.050	1.00	81.29	A16S
ATOM	29621	N1	G	A1401	193.840	107.341	-17.539	1.00	81.29	A16S
ATOM	29622	C6	G	A1401	195.129	106.876	-17.314	1.00	81.29	A16S
ATOM	29623	O6	G	A1401	195.696	106.197	-18.171	1.00	81.29	A16S
ATOM	29624	C5	G	A1401	195.607	107.265	-16.050	1.00	81.29	A16S
ATOM	29625	N7	G	A1401	196.833	107.033	-15.447	1.00	81.29	A16S
ATOM	29626	C8	G	A1401	196.722	107.584	-14.272	1.00	81.29	A16S
ATOM	29627	C2*	G	A1401	194.012	107.702	-12.188	1.00	71.78	A16S
ATOM	29628	O2*	G	A1401	193.077	108.363	-11.368	1.00	71.78	A16S
ATOM	29629	C3*	G	A1401	194.949	106.850	-11.359	1.00	71.78	A16S
ATOM	29630	O3*	G	A1401	194.235	106.202	-10.330	1.00	71.78	A16S
ATOM	29631	P	C	A1402	194.023	104.613	-10.398	1.00	63.06	A16S
ATOM	29632	O1P	C	A1402	193.336	104.178	-9.150	1.00	74.71	A16S
ATOM	29633	O2P	C	A1402	195.346	104.033	-10.737	1.00	74.71	A16S
ATOM	29634	O5*	C	A1402	193.017	104.406	-11.617	1.00	63.06	A16S
ATOM	29635	C5*	C	A1402	191.671	104.892	-11.531	1.00	63.06	A16S
ATOM	29636	C4*	C	A1402	191.015	104.933	-12.895	1.00	63.06	A16S
ATOM	29637	O4*	C	A1402	191.858	105.641	-13.846	1.00	63.06	A16S
ATOM	29638	C1*	C	A1402	191.638	105.131	-15.153	1.00	63.06	A16S



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ATOM	29639	N1	C	A1402	192.910	104.595	-15.684	1.00	74.71	A16S
ATOM	29640	C6	C	A1402	194.000	104.414	-14.876	1.00	74.71	A16S
ATOM	29641	C2	C	A1402	192.975	104.247	-17.038	1.00	74.71	A16S
ATOM	29642	O2	C	A1402	191.991	104.477	-17.761	1.00	74.71	A16S
ATOM	29643	N3	C	A1402	194.107	103.680	-17.524	1.00	74.71	A16S
ATOM	29644	C4	C	A1402	195.151	103.475	-16.718	1.00	74.71	A16S
ATOM	29645	N4	C	A1402	196.233	102.872	-17.228	1.00	74.71	A16S
ATOM	29646	C5	C	A1402	195.130	103.866	-15.348	1.00	74.71	A16S
ATOM	29647	C2*	C	A1402	190.563	104.048	-15.046	1.00	63.06	A16S
ATOM	29648	O2*	C	A1402	189.312	104.633	-15.357	1.00	63.06	A16S
ATOM	29649	C3*	C	A1402	190.702	103.617	-13.585	1.00	63.06	A16S
ATOM	29650	O3*	C	A1402	189.503	103.056	-13.075	1.00	63.06	A16S
ATOM	29651	P	C	A1403	189.387	101.465	-12.874	1.00	83.67	A16S
ATOM	29652	O1P	C	A1403	188.013	101.211	-12.363	1.00	89.88	A16S
ATOM	29653	O2P	C	A1403	190.557	100.980	-12.101	1.00	89.88	A16S
ATOM	29654	O5*	C	A1403	189.470	100.889	-14.358	1.00	83.67	A16S
ATOM	29655	C5*	C	A1403	188.505	101.290	-15.349	1.00	83.67	A16S
ATOM	29656	C4*	C	A1403	188.988	100.936	-16.738	1.00	83.67	A16S
ATOM	29657	O4*	C	A1403	190.197	101.676	-17.045	1.00	83.67	A16S
ATOM	29658	C1*	C	A1403	191.062	100.878	-17.831	1.00	83.67	A16S
ATOM	29659	N1	C	A1403	192.320	100.665	-17.084	1.00	89.88	A16S
ATOM	29660	C6	C	A1403	192.519	101.227	-15.855	1.00	89.88	A16S
ATOM	29661	C2	C	A1403	193.311	99.872	-17.654	1.00	89.88	A16S
ATOM	29662	O2	C	A1403	193.095	99.358	-18.750	1.00	89.88	A16S
ATOM	29663	N3	C	A1403	194.475	99.675	-16.993	1.00	89.88	A16S
ATOM	29664	C4	C	A1403	194.660	100.227	-15.797	1.00	89.88	A16S
ATOM	29665	N4	C	A1403	195.821	100.011	-15.179	1.00	89.88	A16S
ATOM	29666	C5	C	A1403	193.660	101.030	-15.180	1.00	89.88	A16S
ATOM	29667	C2*	C	A1403	190.321	99.578	-18.145	1.00	83.67	A16S
ATOM	29668	O2*	C	A1403	189.658	99.747	-19.383	1.00	83.67	A16S
ATOM	29669	C3*	C	A1403	189.352	99.482	-16.975	1.00	83.67	A16S
ATOM	29670	O3*	C	A1403	188.198	98.719	-17.298	1.00	83.67	A16S
ATOM	29671	P	C	A1404	188.182	97.137	-17.004	1.00	78.22	A16S
ATOM	29672	O1P	C	A1404	186.767	96.726	-16.796	1.00	74.29	A16S
ATOM	29673	O2P	C	A1404	189.201	96.826	-15.963	1.00	74.29	A16S
ATOM	29674	O5*	C	A1404	188.662	96.493	-18.376	1.00	78.22	A16S
ATOM	29675	C5*	C	A1404	188.036	96.862	-19.621	1.00	78.22	A16S
ATOM	29676	C4*	C	A1404	188.782	96.247	-20.776	1.00	78.22	A16S
ATOM	29677	O4*	C	A1404	190.070	96.898	-20.937	1.00	78.22	A16S
ATOM	29678	C1*	C	A1404	191.056	95.937	-21.279	1.00	78.22	A16S
ATOM	29679	N1	C	A1404	192.032	95.871	-20.177	1.00	74.29	A16S
ATOM	29680	C6	C	A1404	191.676	96.213	-18.897	1.00	74.29	A16S
ATOM	29681	C2	C	A1404	193.329	95.427	-20.452	1.00	74.29	A16S
ATOM	29682	O2	C	A1404	193.638	95.159	-21.634	1.00	74.29	A16S
ATOM	29683	N3	C	A1404	194.212	95.304	-19.426	1.00	74.29	A16S
ATOM	29684	C4	C	A1404	193.840	95.617	-18.177	1.00	74.29	A16S
ATOM	29685	N4	C	A1404	194.728	95.457	-17.197	1.00	74.29	A16S
ATOM	29686	C5	C	A1404	192.538	96.101	-17.880	1.00	74.29	A16S
ATOM	29687	C2*	C	A1404	190.341	94.596	-21.466	1.00	78.22	A16S
ATOM	29688	O2*	C	A1404	190.004	94.392	-22.827	1.00	78.22	A16S
ATOM	29689	C3*	C	A1404	189.120	94.781	-20.577	1.00	78.22	A16S
ATOM	29690	O3*	C	A1404	188.034	93.939	-20.910	1.00	78.22	A16S
ATOM	29691	P	G	A1405	187.750	92.634	-20.026	1.00	79.95	A16S
ATOM	29692	O1P	G	A1405	186.293	92.350	-20.171	1.00	90.24	A16S
ATOM	29693	O2P	G	A1405	188.334	92.830	-18.672	1.00	90.24	A16S
ATOM	29694	O5*	G	A1405	188.604	91.509	-20.760	1.00	79.95	A16S
ATOM	29695	C5*	G	A1405	188.376	91.227	-22.151	1.00	79.95	A16S
ATOM	29696	C4*	G	A1405	189.569	90.536	-22.769	1.00	79.95	A16S
ATOM	29697	O4*	G	A1405	190.707	91.441	-22.843	1.00	79.95	A16S
ATOM	29698	C1*	G	A1405	191.912	90.698	-22.733	1.00	79.95	A16S
ATOM	29699	N9	G	A1405	192.642	91.151	-21.547	1.00	90.24	A16S
ATOM	29700	C4	G	A1405	194.006	91.058	-21.323	1.00	90.24	A16S
ATOM	29701	N3	G	A1405	194.926	90.551	-22.175	1.00	90.24	A16S
ATOM	29702	C2	G	A1405	196.148	90.588	-21.667	1.00	90.24	A16S
ATOM	29703	N2	G	A1405	197.183	90.135	-22.379	1.00	90.24	A16S
ATOM	29704	N1	G	A1405	196.448	91.074	-20.425	1.00	90.24	A16S
ATOM	29705	C6	G	A1405	195.528	91.598	-19.526	1.00	90.24	A16S
ATOM	29706	O6	G	A1405	195.912	92.006	-18.423	1.00	90.24	A16S
ATOM	29707	C5	G	A1405	194.205	91.575	-20.059	1.00	90.24	A16S
ATOM	29708	N7	G	A1405	193.003	91.999	-19.506	1.00	90.24	A16S
ATOM	29709	C8	G	A1405	192.109	91.731	-20.422	1.00	90.24	A16S
ATOM	29710	C2*	G	A1405	191.520	89.221	-22.637	1.00	79.95	A16S
ATOM	29711	O2*	G	A1405	191.494	88.664	-23.943	1.00	79.95	A16S
ATOM	29712	C3*	G	A1405	190.114	89.310	-22.059	1.00	79.95	A16S
ATOM	29713	O3*	G	A1405	189.355	88.138	-22.324	1.00	79.95	A16S
ATOM	29714	P	U	A1406	189.517	86.856	-21.362	1.00	81.47	A16S
ATOM	29715	O1P	U	A1406	188.319	86.002	-21.548	1.00	85.52	A16S



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ATOM	29716	O2P	U	A1406	189.884	87.309	-19.997	1.00	85.52	A16S
ATOM	29717	O5*	U	A1406	190.778	86.083	-21.960	1.00	81.47	A16S
ATOM	29718	C5*	U	A1406	190.813	85.658	-23.343	1.00	81.47	A16S
ATOM	29719	C4*	U	A1406	192.184	85.115	-23.697	1.00	81.47	A16S
ATOM	29720	O4*	U	A1406	193.180	86.168	-23.596	1.00	81.47	A16S
ATOM	29721	C1*	U	A1406	194.419	85.615	-23.177	1.00	81.47	A16S
ATOM	29722	N1	U	A1406	194.871	86.279	-21.943	1.00	85.52	A16S
ATOM	29723	C6	U	A1406	193.992	86.909	-21.092	1.00	85.52	A16S
ATOM	29724	C2	U	A1406	196.232	86.235	-21.655	1.00	85.52	A16S
ATOM	29725	O2	U	A1406	197.055	85.717	-22.398	1.00	85.52	A16S
ATOM	29726	N3	U	A1406	196.594	86.824	-20.470	1.00	85.52	A16S
ATOM	29727	C4	U	A1406	195.765	87.454	-19.573	1.00	85.52	A16S
ATOM	29728	O4	U	A1406	196.238	87.903	-18.529	1.00	85.52	A16S
ATOM	29729	C5	U	A1406	194.382	87.485	-19.953	1.00	85.52	A16S
ATOM	29730	C2*	U	A1406	194.225	84.113	-22.983	1.00	81.47	A16S
ATOM	29731	O2*	U	A1406	194.699	83.446	-24.130	1.00	81.47	A16S
ATOM	29732	C3*	U	A1406	192.716	84.009	-22.800	1.00	81.47	A16S
ATOM	29733	O3*	U	A1406	192.236	82.737	-23.193	1.00	81.47	A16S
ATOM	29734	P	C	A1407	191.960	81.617	-22.075	1.00	87.18	A16S
ATOM	29735	O1P	C	A1407	191.594	80.376	-22.803	1.00	97.01	A16S
ATOM	29736	O2P	C	A1407	191.036	82.175	-21.045	1.00	97.01	A16S
ATOM	29737	O5*	C	A1407	193.375	81.388	-21.387	1.00	87.18	A16S
ATOM	29738	C5*	C	A1407	194.405	80.660	-22.064	1.00	87.18	A16S
ATOM	29739	C4*	C	A1407	195.668	80.663	-21.246	1.00	87.18	A16S
ATOM	29740	O4*	C	A1407	196.096	82.033	-21.039	1.00	87.18	A16S
ATOM	29741	C1*	C	A1407	196.709	82.152	-19.767	1.00	87.18	A16S
ATOM	29742	N1	C	A1407	195.984	83.170	-18.977	1.00	97.01	A16S
ATOM	29743	C6	C	A1407	194.702	83.539	-19.290	1.00	97.01	A16S
ATOM	29744	C2	C	A1407	196.633	83.747	-17.874	1.00	97.01	A16S
ATOM	29745	O2	C	A1407	197.807	83.422	-17.628	1.00	97.01	A16S
ATOM	29746	N3	C	A1407	195.970	84.640	-17.107	1.00	97.01	A16S
ATOM	29747	C4	C	A1407	194.715	84.972	-17.405	1.00	97.01	A16S
ATOM	29748	N4	C	A1407	194.097	85.835	-16.597	1.00	97.01	A16S
ATOM	29749	C5	C	A1407	194.036	84.426	-18.539	1.00	97.01	A16S
ATOM	29750	C2*	C	A1407	196.697	80.769	-19.110	1.00	87.18	A16S
ATOM	29751	O2*	C	A1407	197.930	80.110	-19.329	1.00	87.18	A16S
ATOM	29752	C3*	C	A1407	195.549	80.092	-19.845	1.00	87.18	A16S
ATOM	29753	O3*	C	A1407	195.673	78.681	-19.831	1.00	87.18	A16S
ATOM	29754	P	A	A1408	195.013	77.849	-18.630	1.00	116.18	A16S
ATOM	29755	O1P	A	A1408	195.370	76.428	-18.840	1.00	103.43	A16S
ATOM	29756	O2P	A	A1408	193.581	78.239	-18.510	1.00	103.43	A16S
ATOM	29757	O5*	A	A1408	195.779	78.377	-17.337	1.00	116.18	A16S
ATOM	29758	C5*	A	A1408	197.116	77.945	-17.043	1.00	116.18	A16S
ATOM	29759	C4*	A	A1408	197.528	78.431	-15.677	1.00	116.18	A16S
ATOM	29760	O4*	A	A1408	197.598	79.876	-15.689	1.00	116.18	A16S
ATOM	29761	C1*	A	A1408	197.296	80.371	-14.398	1.00	116.18	A16S
ATOM	29762	N9	A	A1408	196.256	81.388	-14.503	1.00	103.43	A16S
ATOM	29763	C4	A	A1408	195.958	82.300	-13.522	1.00	103.43	A16S
ATOM	29764	N3	A	A1408	196.570	82.441	-12.333	1.00	103.43	A16S
ATOM	29765	C2	A	A1408	196.010	83.423	-11.636	1.00	103.43	A16S
ATOM	29766	N1	A	A1408	194.975	84.215	-11.963	1.00	103.43	A16S
ATOM	29767	C6	A	A1408	194.373	84.034	-13.159	1.00	103.43	A16S
ATOM	29768	N6	A	A1408	193.316	84.796	-13.464	1.00	103.43	A16S
ATOM	29769	C5	A	A1408	194.892	83.036	-14.004	1.00	103.43	A16S
ATOM	29770	N7	A	A1408	194.540	82.610	-15.276	1.00	103.43	A16S
ATOM	29771	C8	A	A1408	195.378	81.634	-15.525	1.00	103.43	A16S
ATOM	29772	C2*	A	A1408	196.870	79.199	-13.509	1.00	116.18	A16S
ATOM	29773	O2*	A	A1408	197.892	78.874	-12.588	1.00	116.18	A16S
ATOM	29774	C3*	A	A1408	196.572	78.109	-14.536	1.00	116.18	A16S
ATOM	29775	O3*	A	A1408	196.804	76.816	-13.989	1.00	116.18	A16S
ATOM	29776	P	C	A1409	195.674	76.122	-13.085	1.00	137.39	A16S
ATOM	29777	O1P	C	A1409	196.254	74.843	-12.605	1.00	161.03	A16S
ATOM	29778	O2P	C	A1409	194.417	76.109	-13.875	1.00	161.03	A16S
ATOM	29779	O5*	C	A1409	195.485	77.102	-11.836	1.00	137.39	A16S
ATOM	29780	C5*	C	A1409	196.370	77.029	-10.693	1.00	137.39	A16S
ATOM	29781	C4*	C	A1409	195.832	77.844	-9.529	1.00	137.39	A16S
ATOM	29782	O4*	C	A1409	195.762	79.244	-9.905	1.00	137.39	A16S
ATOM	29783	C1*	C	A1409	194.694	79.869	-9.205	1.00	137.39	A16S
ATOM	29784	N1	C	A1409	193.759	80.482	-10.174	1.00	161.03	A16S
ATOM	29785	C6	C	A1409	193.719	80.062	-11.477	1.00	161.03	A16S
ATOM	29786	C2	C	A1409	192.891	81.509	-9.733	1.00	161.03	A16S
ATOM	29787	O2	C	A1409	192.942	81.884	-8.546	1.00	161.03	A16S
ATOM	29788	N3	C	A1409	192.022	82.061	-10.613	1.00	161.03	A16S
ATOM	29789	C4	C	A1409	191.992	81.637	-11.881	1.00	161.03	A16S
ATOM	29790	N4	C	A1409	191.117	82.214	-12.715	1.00	161.03	A16S
ATOM	29791	C5	C	A1409	192.859	80.605	-12.354	1.00	161.03	A16S
ATOM	29792	C2*	C	A1409	194.017	78.816	-8.322	1.00	137.39	A16S



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ATOM	29793	O2*	C	A1409	194.470	78.938	-6.986	1.00137.39	A16S
ATOM	29794	C3*	C	A1409	194.437	77.511	-8.997	1.00137.39	A16S
ATOM	29795	O3*	C	A1409	194.437	76.431	-8.053	1.00137.39	A16S
ATOM	29796	P	G	A1410	193.082	75.594	-7.778	1.00163.43	A16S
ATOM	29797	O1P	G	A1410	193.462	74.489	-6.863	1.00159.61	A16S
ATOM	29798	O2P	G	A1410	192.463	75.272	-9.090	1.00159.61	A16S
ATOM	29799	O5*	G	A1410	192.109	76.601	-6.995	1.00163.43	A16S
ATOM	29800	C5*	G	A1410	191.958	76.541	-5.543	1.00163.43	A16S
ATOM	29801	C4*	G	A1410	190.828	77.450	-5.061	1.00163.43	A16S
ATOM	29802	O4*	G	A1410	191.048	78.797	-5.562	1.00163.43	A16S
ATOM	29803	C1*	G	A1410	189.800	79.432	-5.802	1.00163.43	A16S
ATOM	29804	N9	G	A1410	189.726	79.795	-7.216	1.00159.61	A16S
ATOM	29805	C4	G	A1410	188.723	80.518	-7.826	1.00159.61	A16S
ATOM	29806	N3	G	A1410	187.645	81.054	-7.216	1.00159.61	A16S
ATOM	29807	C2	G	A1410	186.855	81.680	-8.071	1.00159.61	A16S
ATOM	29808	N2	G	A1410	185.750	82.296	-7.632	1.00159.61	A16S
ATOM	29809	N1	G	A1410	187.092	81.756	-9.420	1.00159.61	A16S
ATOM	29810	C6	G	A1410	188.189	81.207	-10.071	1.00159.61	A16S
ATOM	29811	O6	G	A1410	188.300	81.321	-11.299	1.00159.61	A16S
ATOM	29812	C5	G	A1410	189.058	80.551	-9.163	1.00159.61	A16S
ATOM	29813	N7	G	A1410	190.258	79.889	-9.387	1.00159.61	A16S
ATOM	29814	C8	G	A1410	190.619	79.463	-8.207	1.00159.61	A16S
ATOM	29815	C2*	G	A1410	188.683	78.461	-5.402	1.00163.43	A16S
ATOM	29816	O2*	G	A1410	188.174	78.794	-4.124	1.00163.43	A16S
ATOM	29817	C3*	G	A1410	189.392	77.108	-5.468	1.00163.43	A16S
ATOM	29818	O3*	G	A1410	188.770	76.168	-4.578	1.00163.43	A16S
ATOM	29819	P	C	A1411	187.493	75.308	-5.073	1.00197.23	A16S
ATOM	29820	O1P	C	A1411	187.190	74.287	-4.032	1.00151.24	A16S
ATOM	29821	O2P	C	A1411	187.761	74.868	-6.468	1.00151.24	A16S
ATOM	29822	O5*	C	A1411	186.276	76.346	-5.100	1.00197.23	A16S
ATOM	29823	C5*	C	A1411	185.509	76.639	-3.902	1.00197.23	A16S
ATOM	29824	C4*	C	A1411	184.238	77.407	-4.239	1.00197.23	A16S
ATOM	29825	O4*	C	A1411	184.586	78.573	-5.027	1.00197.23	A16S
ATOM	29826	C1*	C	A1411	183.528	78.877	-5.919	1.00197.23	A16S
ATOM	29827	N1	C	A1411	184.068	78.975	-7.292	1.00151.24	A16S
ATOM	29828	C6	C	A1411	184.863	77.991	-7.815	1.00151.24	A16S
ATOM	29829	C2	C	A1411	183.758	80.113	-8.057	1.00151.24	A16S
ATOM	29830	O2	C	A1411	183.025	80.990	-7.567	1.00151.24	A16S
ATOM	29831	N3	C	A1411	184.265	80.229	-9.307	1.00151.24	A16S
ATOM	29832	C4	C	A1411	185.048	79.269	-9.801	1.00151.24	A16S
ATOM	29833	N4	C	A1411	185.531	79.436	-11.035	1.00151.24	A16S
ATOM	29834	C5	C	A1411	185.371	78.097	-9.052	1.00151.24	A16S
ATOM	29835	C2*	C	A1411	182.411	77.850	-5.718	1.00197.23	A16S
ATOM	29836	O2*	C	A1411	181.403	78.417	-4.902	1.00197.23	A16S
ATOM	29837	C3*	C	A1411	183.150	76.695	-5.044	1.00197.23	A16S
ATOM	29838	O3*	C	A1411	182.267	75.957	-4.186	1.00197.23	A16S
ATOM	29839	P	C	A1412	181.228	74.889	-4.812	1.00169.18	A16S
ATOM	29840	O1P	C	A1412	180.531	74.231	-3.670	1.00151.51	A16S
ATOM	29841	O2P	C	A1412	181.944	74.049	-5.808	1.00151.51	A16S
ATOM	29842	O5*	C	A1412	180.161	75.782	-5.594	1.00169.18	A16S
ATOM	29843	C5*	C	A1412	179.083	76.440	-4.893	1.00169.18	A16S
ATOM	29844	C4*	C	A1412	178.220	77.221	-5.860	1.00169.18	A16S
ATOM	29845	O4*	C	A1412	179.048	78.191	-6.550	1.00169.18	A16S
ATOM	29846	C1*	C	A1412	178.559	78.381	-7.867	1.00169.18	A16S
ATOM	29847	N1	C	A1412	179.652	78.140	-8.840	1.00151.51	A16S
ATOM	29848	C6	C	A1412	180.784	77.460	-8.479	1.00151.51	A16S
ATOM	29849	C2	C	A1412	179.517	78.637	-10.156	1.00151.51	A16S
ATOM	29850	O2	C	A1412	178.474	79.233	-10.478	1.00151.51	A16S
ATOM	29851	N3	C	A1412	180.525	78.452	-11.039	1.00151.51	A16S
ATOM	29852	C4	C	A1412	181.629	77.803	-10.666	1.00151.51	A16S
ATOM	29853	N4	C	A1412	182.603	77.665	-11.568	1.00151.51	A16S
ATOM	29854	C5	C	A1412	181.786	77.272	-9.351	1.00151.51	A16S
ATOM	29855	C2*	C	A1412	177.329	77.490	-8.049	1.00169.18	A16S
ATOM	29856	O2*	C	A1412	176.166	78.258	-7.817	1.00169.18	A16S
ATOM	29857	C3*	C	A1412	177.534	76.434	-6.972	1.00169.18	A16S
ATOM	29858	O3*	C	A1412	176.277	75.903	-6.550	1.00169.18	A16S
ATOM	29859	P	A	A1413	175.566	74.732	-7.406	1.00122.50	A16S
ATOM	29860	O1P	A	A1413	174.368	74.290	-6.642	1.00152.38	A16S
ATOM	29861	O2P	A	A1413	176.595	73.730	-7.801	1.00152.38	A16S
ATOM	29862	O5*	A	A1413	175.032	75.451	-8.727	1.00122.50	A16S
ATOM	29863	C5*	A	A1413	173.841	76.261	-8.696	1.00122.50	A16S
ATOM	29864	C4*	A	A1413	173.671	77.003	-10.001	1.00122.50	A16S
ATOM	29865	O4*	A	A1413	174.859	77.789	-10.272	1.00122.50	A16S
ATOM	29866	C1*	A	A1413	175.075	77.864	-11.668	1.00122.50	A16S
ATOM	29867	N9	A	A1413	176.368	77.266	-11.978	1.00152.38	A16S
ATOM	29868	C4	A	A1413	176.946	77.236	-13.219	1.00152.38	A16S
ATOM	29869	N3	A	A1413	176.457	77.759	-14.352	1.00152.38	A16S



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ATOM	29870	C2	A	A1413	177.278	77.522	-15.365	1.00152.38	A16S
ATOM	29871	N1	A	A1413	178.445	76.866	-15.375	1.00152.38	A16S
ATOM	29872	C6	A	A1413	178.908	76.350	-14.216	1.00152.38	A16S
ATOM	29873	N6	A	A1413	180.070	75.687	-14.226	1.00152.38	A16S
ATOM	29874	C5	A	A1413	178.130	76.541	-13.066	1.00152.38	A16S
ATOM	29875	N7	A	A1413	178.305	76.157	-11.746	1.00152.38	A16S
ATOM	29876	C8	A	A1413	177.235	76.611	-11.144	1.00152.38	A16S
ATOM	29877	C2*	A	A1413	173.948	77.101	-12.354	1.00122.50	A16S
ATOM	29878	O2*	A	A1413	172.970	78.042	-12.730	1.00122.50	A16S
ATOM	29879	C3*	A	A1413	173.484	76.160	-11.248	1.00122.50	A16S
ATOM	29880	O3*	A	A1413	172.119	75.813	-11.409	1.00122.50	A16S
ATOM	29881	P	U	A1414	171.707	74.641	-12.426	1.00 95.79	A16S
ATOM	29882	O1P	U	A1414	170.220	74.590	-12.470	1.00129.68	A16S
ATOM	29883	O2P	U	A1414	172.479	73.425	-12.064	1.00129.68	A16S
ATOM	29884	O5*	U	A1414	172.214	75.150	-13.846	1.00 95.79	A16S
ATOM	29885	C5*	U	A1414	171.595	76.276	-14.483	1.00 95.79	A16S
ATOM	29886	C4*	U	A1414	172.137	76.448	-15.877	1.00 95.79	A16S
ATOM	29887	O4*	U	A1414	173.557	76.744	-15.834	1.00 95.79	A16S
ATOM	29888	C1*	U	A1414	174.192	76.189	-16.978	1.00 95.79	A16S
ATOM	29889	N1	U	A1414	175.322	75.333	-16.558	1.00129.68	A16S
ATOM	29890	C6	U	A1414	175.432	74.848	-15.269	1.00129.68	A16S
ATOM	29891	C2	U	A1414	176.291	75.015	-17.516	1.00129.68	A16S
ATOM	29892	O2	U	A1414	176.259	75.430	-18.661	1.00129.68	A16S
ATOM	29893	N3	U	A1414	177.300	74.194	-17.077	1.00129.68	A16S
ATOM	29894	C4	U	A1414	177.459	73.669	-15.813	1.00129.68	A16S
ATOM	29895	O4	U	A1414	178.412	72.915	-15.586	1.00129.68	A16S
ATOM	29896	C5	U	A1414	176.440	74.052	-14.876	1.00129.68	A16S
ATOM	29897	C2*	U	A1414	173.118	75.467	-17.802	1.00 95.79	A16S
ATOM	29898	O2*	U	A1414	172.654	76.308	-18.840	1.00 95.79	A16S
ATOM	29899	C3*	U	A1414	172.036	75.222	-16.762	1.00 95.79	A16S
ATOM	29900	O3*	U	A1414	170.754	75.117	-17.349	1.00 95.79	A16S
ATOM	29901	P	G	A1415	170.282	73.714	-17.965	1.00103.69	A16S
ATOM	29902	O1P	G	A1415	168.813	73.797	-18.179	1.00168.98	A16S
ATOM	29903	O2P	G	A1415	170.847	72.611	-17.148	1.00168.98	A16S
ATOM	29904	O5*	G	A1415	170.987	73.696	-19.386	1.00103.69	A16S
ATOM	29905	C5*	G	A1415	170.661	74.700	-20.356	1.00103.69	A16S
ATOM	29906	C4*	G	A1415	171.552	74.573	-21.558	1.00103.69	A16S
ATOM	29907	O4*	G	A1415	172.908	74.934	-21.195	1.00103.69	A16S
ATOM	29908	C1*	G	A1415	173.821	74.100	-21.883	1.00103.69	A16S
ATOM	29909	N9	G	A1415	174.512	73.271	-20.900	1.00168.98	A16S
ATOM	29910	C4	G	A1415	175.785	72.788	-21.015	1.00168.98	A16S
ATOM	29911	N3	G	A1415	176.617	73.014	-22.049	1.00168.98	A16S
ATOM	29912	C2	G	A1415	177.766	72.390	-21.901	1.00168.98	A16S
ATOM	29913	N2	G	A1415	178.696	72.501	-22.862	1.00168.98	A16S
ATOM	29914	N1	G	A1415	178.081	71.610	-20.806	1.00168.98	A16S
ATOM	29915	C6	G	A1415	177.236	71.367	-19.725	1.00168.98	A16S
ATOM	29916	O6	G	A1415	177.614	70.649	-18.792	1.00168.98	A16S
ATOM	29917	C5	G	A1415	175.995	72.025	-19.883	1.00168.98	A16S
ATOM	29918	N7	G	A1415	174.875	72.039	-19.066	1.00168.98	A16S
ATOM	29919	C8	G	A1415	174.023	72.796	-19.703	1.00168.98	A16S
ATOM	29920	C2*	G	A1415	173.009	73.226	-22.839	1.00103.69	A16S
ATOM	29921	O2*	G	A1415	172.936	73.851	-24.108	1.00103.69	A16S
ATOM	29922	C3*	G	A1415	171.672	73.170	-22.118	1.00103.69	A16S
ATOM	29923	O3*	G	A1415	170.586	72.816	-22.948	1.00103.69	A16S
ATOM	29924	P	G	A1416	170.267	71.270	-23.188	1.00129.47	A16S
ATOM	29925	O1P	G	A1416	168.978	71.165	-23.906	1.00144.00	A16S
ATOM	29926	O2P	G	A1416	170.446	70.571	-21.898	1.00144.00	A16S
ATOM	29927	O5*	G	A1416	171.432	70.827	-24.171	1.00129.47	A16S
ATOM	29928	C5*	G	A1416	171.614	71.509	-25.424	1.00129.47	A16S
ATOM	29929	C4*	G	A1416	172.875	71.039	-26.109	1.00129.47	A16S
ATOM	29930	O4*	G	A1416	174.040	71.514	-25.391	1.00129.47	A16S
ATOM	29931	C1*	G	A1416	175.085	70.559	-25.503	1.00129.47	A16S
ATOM	29932	N9	G	A1416	175.526	70.177	-24.164	1.00144.00	A16S
ATOM	29933	C4	G	A1416	176.646	69.441	-23.862	1.00144.00	A16S
ATOM	29934	N3	G	A1416	177.520	68.928	-24.754	1.00144.00	A16S
ATOM	29935	C2	G	A1416	178.501	68.275	-24.161	1.00144.00	A16S
ATOM	29936	N2	G	A1416	179.457	67.700	-24.903	1.00144.00	A16S
ATOM	29937	N1	G	A1416	178.616	68.138	-22.797	1.00144.00	A16S
ATOM	29938	C6	G	A1416	177.727	68.661	-21.860	1.00144.00	A16S
ATOM	29939	O6	G	A1416	177.926	68.489	-20.650	1.00144.00	A16S
ATOM	29940	C5	G	A1416	176.668	69.356	-22.484	1.00144.00	A16S
ATOM	29941	N7	G	A1416	175.577	70.012	-21.932	1.00144.00	A16S
ATOM	29942	C8	G	A1416	174.926	70.481	-22.962	1.00144.00	A16S
ATOM	29943	C2*	G	A1416	174.576	69.380	-26.339	1.00129.47	A16S
ATOM	29944	O2*	G	A1416	175.073	69.501	-27.661	1.00129.47	A16S
ATOM	29945	C3*	G	A1416	173.058	69.532	-26.208	1.00129.47	A16S
ATOM	29946	O3*	G	A1416	172.341	68.995	-27.321	1.00129.47	A16S



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ATOM	29947	P	G	A1417	171.267	67.819	-27.089	1.00192.98	A16S
ATOM	29948	O1P	G	A1417	170.675	67.513	-28.421	1.00137.11	A16S
ATOM	29949	O2P	G	A1417	170.380	68.195	-25.957	1.00137.11	A16S
ATOM	29950	O5*	G	A1417	172.144	66.581	-26.604	1.00192.98	A16S
ATOM	29951	C5*	G	A1417	173.303	66.149	-27.346	1.00192.98	A16S
ATOM	29952	C4*	G	A1417	174.248	65.411	-26.433	1.00192.98	A16S
ATOM	29953	O4*	G	A1417	174.800	66.337	-25.470	1.00192.98	A16S
ATOM	29954	C1*	G	A1417	174.909	65.706	-24.211	1.00192.98	A16S
ATOM	29955	N9	G	A1417	174.227	66.546	-23.228	1.00137.11	A16S
ATOM	29956	C4	G	A1417	174.516	66.643	-21.878	1.00137.11	A16S
ATOM	29957	N3	G	A1417	175.440	65.920	-21.203	1.00137.11	A16S
ATOM	29958	C2	G	A1417	175.509	66.267	-19.921	1.00137.11	A16S
ATOM	29959	N2	G	A1417	176.358	65.634	-19.105	1.00137.11	A16S
ATOM	29960	N1	G	A1417	174.748	67.257	-19.346	1.00137.11	A16S
ATOM	29961	C6	G	A1417	173.798	68.022	-20.012	1.00137.11	A16S
ATOM	29962	O6	G	A1417	173.185	68.903	-19.398	1.00137.11	A16S
ATOM	29963	C5	G	A1417	173.691	67.642	-21.398	1.00137.11	A16S
ATOM	29964	N7	G	A1417	172.868	68.128	-22.411	1.00137.11	A16S
ATOM	29965	C8	G	A1417	173.211	67.443	-23.470	1.00137.11	A16S
ATOM	29966	C2*	G	A1417	174.437	64.254	-24.355	1.00192.98	A16S
ATOM	29967	O2*	G	A1417	175.559	63.422	-24.546	1.00192.98	A16S
ATOM	29968	C3*	G	A1417	173.585	64.313	-25.618	1.00192.98	A16S
ATOM	29969	O3*	G	A1417	173.668	63.093	-26.350	1.00192.98	A16S
ATOM	29970	P	A	A1418	172.464	62.032	-26.295	1.00190.54	A16S
ATOM	29971	O1P	A	A1418	171.472	62.373	-27.343	1.00168.49	A16S
ATOM	29972	O2P	A	A1418	172.028	61.882	-24.886	1.00168.49	A16S
ATOM	29973	O5*	A	A1418	173.153	60.674	-26.741	1.00190.54	A16S
ATOM	29974	C5*	A	A1418	174.095	60.648	-27.825	1.00190.54	A16S
ATOM	29975	C4*	A	A1418	175.202	59.671	-27.517	1.00190.54	A16S
ATOM	29976	O4*	A	A1418	176.134	60.246	-26.565	1.00190.54	A16S
ATOM	29977	C1*	A	A1418	176.581	59.242	-25.666	1.00190.54	A16S
ATOM	29978	N9	A	A1418	176.200	59.636	-24.305	1.00168.49	A16S
ATOM	29979	C4	A	A1418	176.703	59.113	-23.137	1.00168.49	A16S
ATOM	29980	N3	A	A1418	177.636	58.153	-23.008	1.00168.49	A16S
ATOM	29981	C2	A	A1418	177.874	57.900	-21.724	1.00168.49	A16S
ATOM	29982	N1	A	A1418	177.328	58.458	-20.634	1.00168.49	A16S
ATOM	29983	C6	A	A1418	176.395	59.422	-20.798	1.00168.49	A16S
ATOM	29984	N6	A	A1418	175.858	59.983	-19.712	1.00168.49	A16S
ATOM	29985	C5	A	A1418	176.050	59.779	-22.113	1.00168.49	A16S
ATOM	29986	N7	A	A1418	175.150	60.703	-22.623	1.00168.49	A16S
ATOM	29987	C8	A	A1418	175.276	60.582	-23.921	1.00168.49	A16S
ATOM	29988	C2*	A	A1418	175.952	57.913	-26.101	1.00190.54	A16S
ATOM	29989	O2*	A	A1418	176.858	57.192	-26.911	1.00190.54	A16S
ATOM	29990	C3*	A	A1418	174.719	58.392	-26.859	1.00190.54	A16S
ATOM	29991	O3*	A	A1418	174.203	57.474	-27.814	1.00190.54	A16S
ATOM	29992	P	G	A1419	172.647	57.059	-27.752	1.00198.84	A16S
ATOM	29993	O1P	G	A1419	172.357	56.254	-28.974	1.00155.78	A16S
ATOM	29994	O2P	G	A1419	171.830	58.280	-27.455	1.00155.78	A16S
ATOM	29995	O5*	G	A1419	172.564	56.096	-26.486	1.00198.84	A16S
ATOM	29996	C5*	G	A1419	173.502	55.020	-26.326	1.00198.84	A16S
ATOM	29997	C4*	G	A1419	173.746	54.759	-24.863	1.00198.84	A16S
ATOM	29998	O4*	G	A1419	174.368	55.924	-24.258	1.00198.84	A16S
ATOM	29999	C1*	G	A1419	173.899	56.078	-22.927	1.00198.84	A16S
ATOM	30000	N9	G	A1419	173.182	57.346	-22.825	1.00155.78	A16S
ATOM	30001	C4	G	A1419	172.997	58.084	-21.679	1.00155.78	A16S
ATOM	30002	N3	G	A1419	173.475	57.778	-20.453	1.00155.78	A16S
ATOM	30003	C2	G	A1419	173.108	58.665	-19.542	1.00155.78	A16S
ATOM	30004	N2	G	A1419	173.497	58.512	-18.265	1.00155.78	A16S
ATOM	30005	N1	G	A1419	172.333	59.767	-19.815	1.00155.78	A16S
ATOM	30006	C6	G	A1419	171.829	60.102	-21.069	1.00155.78	A16S
ATOM	30007	O6	G	A1419	171.130	61.115	-21.201	1.00155.78	A16S
ATOM	30008	C5	G	A1419	172.219	59.158	-22.057	1.00155.78	A16S
ATOM	30009	N7	G	A1419	171.937	59.108	-23.416	1.00155.78	A16S
ATOM	30010	C8	G	A1419	172.530	58.022	-23.830	1.00155.78	A16S
ATOM	30011	C2*	G	A1419	172.959	54.911	-22.631	1.00198.84	A16S
ATOM	30012	O2*	G	A1419	173.669	53.872	-21.986	1.00198.84	A16S
ATOM	30013	C3*	G	A1419	172.497	54.535	-24.031	1.00198.84	A16S
ATOM	30014	O3*	G	A1419	172.015	53.206	-24.110	1.00198.84	A16S
ATOM	30015	P	C	A1420	170.493	52.902	-23.703	1.00198.11	A16S
ATOM	30016	O1P	C	A1420	170.176	51.507	-24.116	1.00186.50	A16S
ATOM	30017	O2P	C	A1420	169.651	54.030	-24.192	1.00186.50	A16S
ATOM	30018	O5*	C	A1420	170.520	52.959	-22.114	1.00198.11	A16S
ATOM	30019	C5*	C	A1420	171.365	52.071	-21.360	1.00198.11	A16S
ATOM	30020	C4*	C	A1420	171.259	52.379	-19.887	1.00198.11	A16S
ATOM	30021	O4*	C	A1420	171.823	53.689	-19.620	1.00198.11	A16S
ATOM	30022	C1*	C	A1420	171.083	54.328	-18.590	1.00198.11	A16S
ATOM	30023	N1	C	A1420	170.526	55.595	-19.115	1.00186.50	A16S



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ATOM	30024	C6	C	A1420	170.189	55.729	-20.436	1.00186.50	A16S
ATOM	30025	C2	C	A1420	170.333	56.667	-18.226	1.00186.50	A16S
ATOM	30026	O2	C	A1420	170.655	56.530	-17.033	1.00186.50	A16S
ATOM	30027	N3	C	A1420	169.803	57.823	-18.690	1.00186.50	A16S
ATOM	30028	C4	C	A1420	169.472	57.938	-19.977	1.00186.50	A16S
ATOM	30029	N4	C	A1420	168.948	59.096	-20.382	1.00186.50	A16S
ATOM	30030	C5	C	A1420	169.664	56.870	-20.905	1.00186.50	A16S
ATOM	30031	C2*	C	A1420	169.995	53.357	-18.123	1.00198.11	A16S
ATOM	30032	O2*	C	A1420	170.424	52.661	-16.967	1.00198.11	A16S
ATOM	30033	C3*	C	A1420	169.842	52.460	-19.345	1.00198.11	A16S
ATOM	30034	O3*	C	A1420	169.300	51.185	-19.040	1.00198.11	A16S
ATOM	30035	P	G	A1421	167.714	50.958	-19.150	1.00153.26	A16S
ATOM	30036	O1P	G	A1421	167.455	49.503	-18.989	1.00181.78	A16S
ATOM	30037	O2P	G	A1421	167.207	51.668	-20.353	1.00181.78	A16S
ATOM	30038	O5*	G	A1421	167.151	51.701	-17.865	1.00153.26	A16S
ATOM	30039	C5*	G	A1421	167.381	51.167	-16.557	1.00153.26	A16S
ATOM	30040	C4*	G	A1421	166.682	52.015	-15.535	1.00153.26	A16S
ATOM	30041	O4*	G	A1421	167.358	53.297	-15.433	1.00153.26	A16S
ATOM	30042	C1*	G	A1421	166.402	54.330	-15.236	1.00153.26	A16S
ATOM	30043	N9	G	A1421	166.424	55.211	-16.405	1.00181.78	A16S
ATOM	30044	C4	G	A1421	165.852	56.461	-16.500	1.00181.78	A16S
ATOM	30045	N3	G	A1421	165.205	57.114	-15.510	1.00181.78	A16S
ATOM	30046	C2	G	A1421	164.743	58.285	-15.911	1.00181.78	A16S
ATOM	30047	N2	G	A1421	164.079	59.066	-15.048	1.00181.78	A16S
ATOM	30048	N1	G	A1421	164.899	58.776	-17.188	1.00181.78	A16S
ATOM	30049	C6	G	A1421	165.559	58.121	-18.224	1.00181.78	A16S
ATOM	30050	O6	G	A1421	165.634	58.651	-19.341	1.00181.78	A16S
ATOM	30051	C5	G	A1421	166.068	56.866	-17.803	1.00181.78	A16S
ATOM	30052	N7	G	A1421	166.784	55.906	-18.505	1.00181.78	A16S
ATOM	30053	C8	G	A1421	166.979	54.949	-17.638	1.00181.78	A16S
ATOM	30054	C2*	G	A1421	165.035	53.657	-15.096	1.00153.26	A16S
ATOM	30055	O2*	G	A1421	164.744	53.428	-13.729	1.00153.26	A16S
ATOM	30056	C3*	G	A1421	165.250	52.376	-15.890	1.00153.26	A16S
ATOM	30057	O3*	G	A1421	164.320	51.340	-15.602	1.00153.26	A16S
ATOM	30058	P	G	A1422	163.075	51.092	-16.596	1.00167.79	A16S
ATOM	30059	O1P	G	A1422	162.639	49.691	-16.381	1.00172.36	A16S
ATOM	30060	O2P	G	A1422	163.427	51.546	-17.969	1.00172.36	A16S
ATOM	30061	O5*	G	A1422	161.941	52.064	-16.037	1.00167.79	A16S
ATOM	30062	C5*	G	A1422	161.636	52.110	-14.626	1.00167.79	A16S
ATOM	30063	C4*	G	A1422	161.165	53.491	-14.233	1.00167.79	A16S
ATOM	30064	O4*	G	A1422	162.192	54.455	-14.585	1.00167.79	A16S
ATOM	30065	C1*	G	A1422	161.592	55.656	-15.047	1.00167.79	A16S
ATOM	30066	N9	G	A1422	161.964	55.858	-16.448	1.00172.36	A16S
ATOM	30067	C4	G	A1422	161.731	56.989	-17.199	1.00172.36	A16S
ATOM	30068	N3	G	A1422	161.121	58.114	-16.768	1.00172.36	A16S
ATOM	30069	C2	G	A1422	161.034	59.023	-17.723	1.00172.36	A16S
ATOM	30070	N2	G	A1422	160.437	60.196	-17.469	1.00172.36	A16S
ATOM	30071	N1	G	A1422	161.521	58.848	-18.999	1.00172.36	A16S
ATOM	30072	C6	G	A1422	162.157	57.701	-19.463	1.00172.36	A16S
ATOM	30073	O6	G	A1422	162.562	57.649	-20.632	1.00172.36	A16S
ATOM	30074	C5	G	A1422	162.245	56.710	-18.450	1.00172.36	A16S
ATOM	30075	N7	G	A1422	162.788	55.433	-18.488	1.00172.36	A16S
ATOM	30076	C8	G	A1422	162.601	54.966	-17.282	1.00172.36	A16S
ATOM	30077	C2*	G	A1422	160.081	55.504	-14.882	1.00167.79	A16S
ATOM	30078	O2*	G	A1422	159.684	56.047	-13.638	1.00167.79	A16S
ATOM	30079	C3*	G	A1422	159.922	53.991	-14.950	1.00167.79	A16S
ATOM	30080	O3*	G	A1422	158.720	53.551	-14.340	1.00167.79	A16S
ATOM	30081	P	G	A1423	157.364	53.523	-15.202	1.00198.37	A16S
ATOM	30082	O1P	G	A1423	156.333	52.879	-14.352	1.00176.60	A16S
ATOM	30083	O2P	G	A1423	157.664	52.965	-16.549	1.00176.60	A16S
ATOM	30084	O5*	G	A1423	156.984	55.061	-15.380	1.00198.37	A16S
ATOM	30085	C5*	G	A1423	156.494	55.833	-14.267	1.00198.37	A16S
ATOM	30086	C4*	G	A1423	155.969	57.170	-14.739	1.00198.37	A16S
ATOM	30087	O4*	G	A1423	157.067	57.989	-15.225	1.00198.37	A16S
ATOM	30088	C1*	G	A1423	156.622	58.796	-16.307	1.00198.37	A16S
ATOM	30089	N9	G	A1423	157.381	58.434	-17.501	1.00176.60	A16S
ATOM	30090	C4	G	A1423	157.433	59.135	-18.685	1.00176.60	A16S
ATOM	30091	N3	G	A1423	156.808	60.305	-18.946	1.00176.60	A16S
ATOM	30092	C2	G	A1423	157.043	60.727	-20.180	1.00176.60	A16S
ATOM	30093	N2	G	A1423	156.507	61.881	-20.607	1.00176.60	A16S
ATOM	30094	N1	G	A1423	157.822	60.050	-21.088	1.00176.60	A16S
ATOM	30095	C6	G	A1423	158.472	58.842	-20.845	1.00176.60	A16S
ATOM	30096	O6	G	A1423	159.148	58.310	-21.740	1.00176.60	A16S
ATOM	30097	C5	G	A1423	158.235	58.383	-19.520	1.00176.60	A16S
ATOM	30098	N7	G	A1423	158.691	57.243	-18.871	1.00176.60	A16S
ATOM	30099	C8	G	A1423	158.163	57.317	-17.679	1.00176.60	A16S
ATOM	30100	C2*	G	A1423	155.129	58.530	-16.497	1.00198.37	A16S



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ATOM	30101	O2*	G	A1423	154.383	59.517	-15.810	1.00198.37	A16S
ATOM	30102	C3*	G	A1423	154.986	57.134	-15.898	1.00198.37	A16S
ATOM	30103	O3*	G	A1423	153.655	56.836	-15.488	1.00198.37	A16S
ATOM	30104	P	C	A1424	152.618	56.218	-16.556	1.00198.84	A16S
ATOM	30105	O1P	C	A1424	151.364	55.906	-15.821	1.00169.37	A16S
ATOM	30106	O2P	C	A1424	153.297	55.147	-17.337	1.00169.37	A16S
ATOM	30107	O5*	C	A1424	152.329	57.433	-17.546	1.00198.84	A16S
ATOM	30108	C5*	C	A1424	151.933	58.719	-17.034	1.00198.84	A16S
ATOM	30109	C4*	C	A1424	151.867	59.733	-18.148	1.00198.84	A16S
ATOM	30110	O4*	C	A1424	153.186	59.964	-18.701	1.00198.84	A16S
ATOM	30111	C1*	C	A1424	153.073	60.249	-20.085	1.00198.84	A16S
ATOM	30112	N1	C	A1424	153.908	59.304	-20.840	1.00169.37	A16S
ATOM	30113	C6	C	A1424	154.230	58.079	-20.325	1.00169.37	A16S
ATOM	30114	C2	C	A1424	154.374	59.684	-22.106	1.00169.37	A16S
ATOM	30115	O2	C	A1424	154.058	60.797	-22.559	1.00169.37	A16S
ATOM	30116	N3	C	A1424	155.154	58.830	-22.805	1.00169.37	A16S
ATOM	30117	C4	C	A1424	155.467	57.638	-22.289	1.00169.37	A16S
ATOM	30118	N4	C	A1424	156.245	56.828	-23.014	1.00169.37	A16S
ATOM	30119	C5	C	A1424	154.998	57.223	-21.008	1.00169.37	A16S
ATOM	30120	C2*	C	A1424	151.596	60.177	-20.471	1.00198.84	A16S
ATOM	30121	O2*	C	A1424	151.073	61.487	-20.519	1.00198.84	A16S
ATOM	30122	C3*	C	A1424	151.016	59.336	-19.339	1.00198.84	A16S
ATOM	30123	O3*	C	A1424	149.647	59.624	-19.095	1.00198.84	A16S
ATOM	30124	P	U	A1425	148.514	58.769	-19.840	1.00181.11	A16S
ATOM	30125	O1P	U	A1425	147.201	59.267	-19.350	1.00198.55	A16S
ATOM	30126	O2P	U	A1425	148.849	57.327	-19.708	1.00198.55	A16S
ATOM	30127	O5*	U	A1425	148.680	59.187	-21.367	1.00181.11	A16S
ATOM	30128	C5*	U	A1425	148.506	60.554	-21.766	1.00181.11	A16S
ATOM	30129	C4*	U	A1425	148.948	60.753	-23.195	1.00181.11	A16S
ATOM	30130	O4*	U	A1425	150.385	60.589	-23.317	1.00181.11	A16S
ATOM	30131	C1*	U	A1425	150.693	60.195	-24.642	1.00181.11	A16S
ATOM	30132	N1	U	A1425	151.593	59.032	-24.631	1.00198.55	A16S
ATOM	30133	C6	U	A1425	151.657	58.155	-23.570	1.00198.55	A16S
ATOM	30134	C2	U	A1425	152.376	58.841	-25.758	1.00198.55	A16S
ATOM	30135	O2	U	A1425	152.360	59.605	-26.712	1.00198.55	A16S
ATOM	30136	N3	U	A1425	153.177	57.726	-25.730	1.00198.55	A16S
ATOM	30137	C4	U	A1425	153.279	56.801	-24.713	1.00198.55	A16S
ATOM	30138	O4	U	A1425	154.022	55.824	-24.857	1.00198.55	A16S
ATOM	30139	C5	U	A1425	152.451	57.075	-23.572	1.00198.55	A16S
ATOM	30140	C2*	U	A1425	149.381	59.924	-25.380	1.00181.11	A16S
ATOM	30141	O2*	U	A1425	149.115	61.011	-26.238	1.00181.11	A16S
ATOM	30142	C3*	U	A1425	148.387	59.792	-24.228	1.00181.11	A16S
ATOM	30143	O3*	U	A1425	147.061	60.134	-24.611	1.00181.11	A16S
ATOM	30144	P	C	A1426	146.170	59.071	-25.425	1.00146.15	A16S
ATOM	30145	O1P	C	A1426	144.796	59.619	-25.530	1.00188.27	A16S
ATOM	30146	O2P	C	A1426	146.379	57.711	-24.867	1.00188.27	A16S
ATOM	30147	O5*	C	A1426	146.808	59.109	-26.873	1.00146.15	A16S
ATOM	30148	C5*	C	A1426	146.857	60.332	-27.598	1.00146.15	A16S
ATOM	30149	C4*	C	A1426	147.587	60.116	-28.880	1.00146.15	A16S
ATOM	30150	O4*	C	A1426	148.991	59.862	-28.614	1.00146.15	A16S
ATOM	30151	C1*	C	A1426	149.484	58.912	-29.548	1.00146.15	A16S
ATOM	30152	N1	C	A1426	150.037	57.752	-28.818	1.00188.27	A16S
ATOM	30153	C6	C	A1426	149.669	57.482	-27.528	1.00188.27	A16S
ATOM	30154	C2	C	A1426	150.959	56.921	-29.477	1.00188.27	A16S
ATOM	30155	O2	C	A1426	151.266	57.171	-30.653	1.00188.27	A16S
ATOM	30156	N3	C	A1426	151.489	55.866	-28.818	1.00188.27	A16S
ATOM	30157	C4	C	A1426	151.130	55.618	-27.558	1.00188.27	A16S
ATOM	30158	N4	C	A1426	151.689	54.569	-26.948	1.00188.27	A16S
ATOM	30159	C5	C	A1426	150.184	56.437	-26.867	1.00188.27	A16S
ATOM	30160	C2*	C	A1426	148.331	58.532	-30.479	1.00146.15	A16S
ATOM	30161	O2*	C	A1426	148.399	59.302	-31.663	1.00146.15	A16S
ATOM	30162	C3*	C	A1426	147.123	58.879	-29.621	1.00146.15	A16S
ATOM	30163	O3*	C	A1426	145.935	59.106	-30.352	1.00146.15	A16S
ATOM	30164	P	U	A1427	145.000	57.861	-30.726	1.00158.88	A16S
ATOM	30165	O1P	U	A1427	143.708	58.403	-31.219	1.00149.97	A16S
ATOM	30166	O2P	U	A1427	145.009	56.913	-29.580	1.00149.97	A16S
ATOM	30167	O5*	U	A1427	145.774	57.192	-31.945	1.00158.88	A16S
ATOM	30168	C5*	U	A1427	146.159	57.984	-33.089	1.00158.88	A16S
ATOM	30169	C4*	U	A1427	147.085	57.200	-33.986	1.00158.88	A16S
ATOM	30170	O4*	U	A1427	148.412	57.113	-33.403	1.00158.88	A16S
ATOM	30171	C1*	U	A1427	148.972	55.836	-33.674	1.00158.88	A16S
ATOM	30172	N1	U	A1427	149.190	55.143	-32.392	1.00149.97	A16S
ATOM	30173	C6	U	A1427	148.403	55.402	-31.288	1.00149.97	A16S
ATOM	30174	C2	U	A1427	150.209	54.207	-32.329	1.00149.97	A16S
ATOM	30175	O2	U	A1427	150.930	53.943	-33.279	1.00149.97	A16S
ATOM	30176	N3	U	A1427	150.352	53.585	-31.111	1.00149.97	A16S
ATOM	30177	C4	U	A1427	149.598	53.794	-29.977	1.00149.97	A16S



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ATOM	30178	O4	U	A1427	149.850	53.155	-28.957	1.00149.97	A16S
ATOM	30179	C5	U	A1427	148.567	54.777	-30.119	1.00149.97	A16S
ATOM	30180	C2*	U	A1427	147.986	55.080	-34.567	1.00158.88	A16S
ATOM	30181	O2*	U	A1427	148.346	55.233	-35.926	1.00158.88	A16S
ATOM	30182	C3*	U	A1427	146.674	55.759	-34.198	1.00158.88	A16S
ATOM	30183	O3*	U	A1427	145.640	55.634	-35.153	1.00158.88	A16S
ATOM	30184	P	A	A1428	144.459	54.580	-34.886	1.00165.54	A16S
ATOM	30185	O1P	A	A1428	143.318	54.928	-35.782	1.00122.40	A16S
ATOM	30186	O2P	A	A1428	144.243	54.508	-33.408	1.00122.40	A16S
ATOM	30187	O5*	A	A1428	145.100	53.210	-35.385	1.00165.54	A16S
ATOM	30188	C5*	A	A1428	145.692	53.119	-36.695	1.00165.54	A16S
ATOM	30189	C4*	A	A1428	146.608	51.928	-36.777	1.00165.54	A16S
ATOM	30190	O4*	A	A1428	147.821	52.168	-36.025	1.00165.54	A16S
ATOM	30191	C1*	A	A1428	148.273	50.949	-35.460	1.00165.54	A16S
ATOM	30192	N9	A	A1428	148.367	51.108	-34.009	1.00122.40	A16S
ATOM	30193	C4	A	A1428	149.096	50.308	-33.157	1.00122.40	A16S
ATOM	30194	N3	A	A1428	149.846	49.237	-33.481	1.00122.40	A16S
ATOM	30195	C2	A	A1428	150.410	48.712	-32.394	1.00122.40	A16S
ATOM	30196	N1	A	A1428	150.314	49.104	-31.117	1.00122.40	A16S
ATOM	30197	C6	A	A1428	149.548	50.180	-30.825	1.00122.40	A16S
ATOM	30198	N6	A	A1428	149.445	50.564	-29.552	1.00122.40	A16S
ATOM	30199	C5	A	A1428	148.900	50.831	-31.890	1.00122.40	A16S
ATOM	30200	N7	A	A1428	148.059	51.935	-31.939	1.00122.40	A16S
ATOM	30201	C8	A	A1428	147.771	52.057	-33.213	1.00122.40	A16S
ATOM	30202	C2*	A	A1428	147.297	49.846	-35.870	1.00165.54	A16S
ATOM	30203	O2*	A	A1428	147.821	49.161	-36.986	1.00165.54	A16S
ATOM	30204	C3*	A	A1428	146.045	50.645	-36.198	1.00165.54	A16S
ATOM	30205	O3*	A	A1428	145.195	49.995	-37.129	1.00165.54	A16S
ATOM	30206	P	C	A1429	143.780	49.415	-36.638	1.00130.60	A16S
ATOM	30207	O1P	C	A1429	142.881	49.367	-37.828	1.00117.56	A16S
ATOM	30208	O2P	C	A1429	143.363	50.183	-35.429	1.00117.56	A16S
ATOM	30209	O5*	C	A1429	144.119	47.917	-36.212	1.00130.60	A16S
ATOM	30210	C5*	C	A1429	144.588	46.989	-37.194	1.00130.60	A16S
ATOM	30211	C4*	C	A1429	145.601	46.049	-36.598	1.00130.60	A16S
ATOM	30212	O4*	C	A1429	146.667	46.794	-35.950	1.00130.60	A16S
ATOM	30213	C1*	C	A1429	147.231	46.004	-34.912	1.00130.60	A16S
ATOM	30214	N1	C	A1429	147.207	46.747	-33.633	1.00117.56	A16S
ATOM	30215	C6	C	A1429	146.397	47.835	-33.454	1.00117.56	A16S
ATOM	30216	C2	C	A1429	148.024	46.288	-32.572	1.00117.56	A16S
ATOM	30217	O2	C	A1429	148.800	45.330	-32.766	1.00117.56	A16S
ATOM	30218	N3	C	A1429	147.948	46.904	-31.369	1.00117.56	A16S
ATOM	30219	C4	C	A1429	147.127	47.943	-31.200	1.00117.56	A16S
ATOM	30220	N4	C	A1429	147.068	48.498	-29.985	1.00117.56	A16S
ATOM	30221	C5	C	A1429	146.326	48.456	-32.267	1.00117.56	A16S
ATOM	30222	C2*	C	A1429	146.410	44.717	-34.818	1.00130.60	A16S
ATOM	30223	O2*	C	A1429	147.086	43.675	-35.496	1.00130.60	A16S
ATOM	30224	C3*	C	A1429	145.113	45.122	-35.505	1.00130.60	A16S
ATOM	30225	O3*	C	A1429	144.433	43.997	-36.022	1.00130.60	A16S
ATOM	30226	P	C	A1430	143.321	43.277	-35.121	1.00114.93	A16S
ATOM	30227	O1P	C	A1430	142.673	42.236	-35.958	1.00113.42	A16S
ATOM	30228	O2P	C	A1430	142.496	44.352	-34.511	1.00113.42	A16S
ATOM	30229	O5*	C	A1430	144.157	42.558	-33.968	1.00114.93	A16S
ATOM	30230	C5*	C	A1430	145.014	41.440	-34.270	1.00114.93	A16S
ATOM	30231	C4*	C	A1430	145.616	40.873	-33.004	1.00114.93	A16S
ATOM	30232	O4*	C	A1430	146.554	41.822	-32.434	1.00114.93	A16S
ATOM	30233	C1*	C	A1430	146.513	41.745	-31.018	1.00114.93	A16S
ATOM	30234	N1	C	A1430	146.028	43.032	-30.487	1.00113.42	A16S
ATOM	30235	C6	C	A1430	145.251	43.864	-31.249	1.00113.42	A16S
ATOM	30236	C2	C	A1430	146.360	43.387	-29.173	1.00113.42	A16S
ATOM	30237	O2	C	A1430	147.075	42.618	-28.503	1.00113.42	A16S
ATOM	30238	N3	C	A1430	145.896	44.555	-28.666	1.00113.42	A16S
ATOM	30239	C4	C	A1430	145.134	45.354	-29.418	1.00113.42	A16S
ATOM	30240	N4	C	A1430	144.695	46.489	-28.878	1.00113.42	A16S
ATOM	30241	C5	C	A1430	144.787	45.021	-30.759	1.00113.42	A16S
ATOM	30242	C2*	C	A1430	145.547	40.625	-30.644	1.00114.93	A16S
ATOM	30243	O2*	C	A1430	146.265	39.427	-30.423	1.00114.93	A16S
ATOM	30244	C3*	C	A1430	144.646	40.589	-31.870	1.00114.93	A16S
ATOM	30245	O3*	C	A1430	143.950	39.361	-32.008	1.00114.93	A16S
ATOM	30246	P	C	A1431	142.445	39.246	-31.447	1.00113.30	A16S
ATOM	30247	O1P	C	A1431	141.849	38.000	-32.004	1.00 95.06	A16S
ATOM	30248	O2P	C	A1431	141.757	40.560	-31.668	1.00 95.06	A16S
ATOM	30249	O5*	C	A1431	142.641	39.033	-29.880	1.00113.30	A16S
ATOM	30250	C5*	C	A1431	143.411	37.926	-29.390	1.00113.30	A16S
ATOM	30251	C4*	C	A1431	143.693	38.086	-27.918	1.00113.30	A16S
ATOM	30252	O4*	C	A1431	144.535	39.249	-27.691	1.00113.30	A16S
ATOM	30253	C1*	C	A1431	144.223	39.826	-26.430	1.00113.30	A16S
ATOM	30254	N1	C	A1431	143.737	41.214	-26.625	1.00 95.06	A16S



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ATOM	30255	C6	C	A1431	143.355	41.669	-27.859	1.00	95.06	A16S
ATOM	30256	C2	C	A1431	143.655	42.063	-25.504	1.00	95.06	A16S
ATOM	30257	O2	C	A1431	144.021	41.635	-24.392	1.00	95.06	A16S
ATOM	30258	N3	C	A1431	143.181	43.321	-25.661	1.00	95.06	A16S
ATOM	30259	C4	C	A1431	142.804	43.747	-26.867	1.00	95.06	A16S
ATOM	30260	N4	C	A1431	142.339	44.991	-26.971	1.00	95.06	A16S
ATOM	30261	C5	C	A1431	142.886	42.915	-28.022	1.00	95.06	A16S
ATOM	30262	C2*	C	A1431	143.140	38.956	-25.795	1.00	113.30	A16S
ATOM	30263	O2*	C	A1431	143.728	37.980	-24.956	1.00	113.30	A16S
ATOM	30264	C3*	C	A1431	142.497	38.336	-27.021	1.00	113.30	A16S
ATOM	30265	O3*	C	A1431	141.765	37.175	-26.697	1.00	113.30	A16S
ATOM	30266	P	G	A1432	140.167	37.279	-26.569	1.00	99.20	A16S
ATOM	30267	O1P	G	A1432	139.647	35.937	-26.165	1.00	89.60	A16S
ATOM	30268	O2P	G	A1432	139.653	37.937	-27.816	1.00	89.60	A16S
ATOM	30269	O5*	G	A1432	139.942	38.282	-25.350	1.00	99.20	A16S
ATOM	30270	C5*	G	A1432	140.442	37.972	-24.029	1.00	99.20	A16S
ATOM	30271	C4*	G	A1432	140.156	39.110	-23.074	1.00	99.20	A16S
ATOM	30272	O4*	G	A1432	140.885	40.295	-23.488	1.00	99.20	A16S
ATOM	30273	C1*	G	A1432	140.084	41.448	-23.301	1.00	99.20	A16S
ATOM	30274	N9	G	A1432	139.770	41.986	-24.623	1.00	89.60	A16S
ATOM	30275	C4	G	A1432	139.593	43.304	-24.967	1.00	89.60	A16S
ATOM	30276	N3	G	A1432	139.695	44.362	-24.135	1.00	89.60	A16S
ATOM	30277	C2	G	A1432	139.442	45.503	-24.756	1.00	89.60	A16S
ATOM	30278	N2	G	A1432	139.486	46.657	-24.072	1.00	89.60	A16S
ATOM	30279	N1	G	A1432	139.121	45.596	-26.094	1.00	89.60	A16S
ATOM	30280	C6	G	A1432	139.010	44.513	-26.970	1.00	89.60	A16S
ATOM	30281	O6	G	A1432	138.699	44.698	-28.166	1.00	89.60	A16S
ATOM	30282	C5	G	A1432	139.277	43.291	-26.312	1.00	89.60	A16S
ATOM	30283	N7	G	A1432	139.267	41.998	-26.803	1.00	89.60	A16S
ATOM	30284	C8	G	A1432	139.570	41.260	-25.772	1.00	89.60	A16S
ATOM	30285	C2*	G	A1432	138.828	40.996	-22.556	1.00	99.20	A16S
ATOM	30286	O2*	G	A1432	139.060	41.079	-21.167	1.00	99.20	A16S
ATOM	30287	C3*	G	A1432	138.707	39.550	-23.014	1.00	99.20	A16S
ATOM	30288	O3*	G	A1432	137.971	38.735	-22.119	1.00	99.20	A16S
ATOM	30289	P	A	A1433	136.386	38.969	-21.939	1.00	83.22	A16S
ATOM	30290	O1P	A	A1433	135.655	37.708	-22.244	1.00	89.23	A16S
ATOM	30291	O2P	A	A1433	135.997	40.225	-22.641	1.00	89.23	A16S
ATOM	30292	O5*	A	A1433	136.266	39.198	-20.368	1.00	83.22	A16S
ATOM	30293	C5*	A	A1433	136.985	38.345	-19.457	1.00	83.22	A16S
ATOM	30294	C4*	A	A1433	136.973	38.932	-18.077	1.00	83.22	A16S
ATOM	30295	O4*	A	A1433	137.813	40.111	-18.037	1.00	83.22	A16S
ATOM	30296	C1*	A	A1433	137.248	41.071	-17.157	1.00	83.22	A16S
ATOM	30297	N9	A	A1433	136.999	42.306	-17.912	1.00	89.23	A16S
ATOM	30298	C4	A	A1433	136.776	43.563	-17.389	1.00	89.23	A16S
ATOM	30299	N3	A	A1433	136.760	43.923	-16.092	1.00	89.23	A16S
ATOM	30300	C2	A	A1433	136.500	45.222	-15.970	1.00	89.23	A16S
ATOM	30301	N1	A	A1433	136.266	46.132	-16.921	1.00	89.23	A16S
ATOM	30302	C6	A	A1433	136.284	45.734	-18.212	1.00	89.23	A16S
ATOM	30303	N6	A	A1433	136.036	46.631	-19.164	1.00	89.23	A16S
ATOM	30304	C5	A	A1433	136.558	44.389	-18.477	1.00	89.23	A16S
ATOM	30305	N7	A	A1433	136.660	43.680	-19.663	1.00	89.23	A16S
ATOM	30306	C8	A	A1433	136.923	42.455	-19.277	1.00	89.23	A16S
ATOM	30307	C2*	A	A1433	135.972	40.459	-16.562	1.00	83.22	A16S
ATOM	30308	O2*	A	A1433	136.238	39.904	-15.286	1.00	83.22	A16S
ATOM	30309	C3*	A	A1433	135.616	39.414	-17.612	1.00	83.22	A16S
ATOM	30310	O3*	A	A1433	134.804	38.354	-17.130	1.00	83.22	A16S
ATOM	30311	P	A	A1434	133.232	38.343	-17.493	1.00	77.74	A16S
ATOM	30312	O1P	A	A1434	132.634	37.039	-17.108	1.00	91.56	A16S
ATOM	30313	O2P	A	A1434	133.066	38.846	-18.893	1.00	91.56	A16S
ATOM	30314	O5*	A	A1434	132.632	39.431	-16.500	1.00	77.74	A16S
ATOM	30315	C5*	A	A1434	132.988	39.427	-15.102	1.00	77.74	A16S
ATOM	30316	C4*	A	A1434	132.592	40.733	-14.469	1.00	77.74	A16S
ATOM	30317	O4*	A	A1434	133.489	41.784	-14.900	1.00	77.74	A16S
ATOM	30318	C1*	A	A1434	132.772	42.998	-14.992	1.00	77.74	A16S
ATOM	30319	N9	A	A1434	132.875	43.518	-16.351	1.00	91.56	A16S
ATOM	30320	C4	A	A1434	132.940	44.846	-16.680	1.00	91.56	A16S
ATOM	30321	N3	A	A1434	133.007	45.889	-15.835	1.00	91.56	A16S
ATOM	30322	C2	A	A1434	132.996	47.036	-16.507	1.00	91.56	A16S
ATOM	30323	N1	A	A1434	132.920	47.241	-17.829	1.00	91.56	A16S
ATOM	30324	C6	A	A1434	132.851	46.168	-18.647	1.00	91.56	A16S
ATOM	30325	N6	A	A1434	132.749	46.374	-19.960	1.00	91.56	A16S
ATOM	30326	C5	A	A1434	132.876	44.897	-18.057	1.00	91.56	A16S
ATOM	30327	N7	A	A1434	132.838	43.621	-18.592	1.00	91.56	A16S
ATOM	30328	C8	A	A1434	132.853	42.840	-17.540	1.00	91.56	A16S
ATOM	30329	C2*	A	A1434	131.305	42.718	-14.649	1.00	77.74	A16S
ATOM	30330	O2*	A	A1434	130.987	43.093	-13.326	1.00	77.74	A16S
ATOM	30331	C3*	A	A1434	131.211	41.220	-14.864	1.00	77.74	A16S



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ATOM	30332	O3*	A	A1434	130.176	40.638	-14.088	1.00	77.74	A16S
ATOM	30333	P	G	A1435	128.766	40.305	-14.783	1.00	81.90	A16S
ATOM	30334	O1P	G	A1435	127.852	39.803	-13.731	1.00	91.30	A16S
ATOM	30335	O2P	G	A1435	129.015	39.480	-15.999	1.00	91.30	A16S
ATOM	30336	O5*	G	A1435	128.227	41.723	-15.269	1.00	81.90	A16S
ATOM	30337	C5*	G	A1435	127.875	42.753	-14.319	1.00	81.90	A16S
ATOM	30338	C4*	G	A1435	127.454	44.009	-15.045	1.00	81.90	A16S
ATOM	30339	O4*	G	A1435	128.605	44.561	-15.731	1.00	81.90	A16S
ATOM	30340	C1*	G	A1435	128.210	45.055	-16.997	1.00	81.90	A16S
ATOM	30341	N9	G	A1435	128.858	44.230	-18.008	1.00	91.30	A16S
ATOM	30342	C4	G	A1435	129.254	44.615	-19.269	1.00	91.30	A16S
ATOM	30343	N3	G	A1435	129.149	45.852	-19.793	1.00	91.30	A16S
ATOM	30344	C2	G	A1435	129.606	45.905	-21.036	1.00	91.30	A16S
ATOM	30345	N2	G	A1435	129.588	47.069	-21.700	1.00	91.30	A16S
ATOM	30346	N1	G	A1435	130.115	44.825	-21.717	1.00	91.30	A16S
ATOM	30347	C6	G	A1435	130.224	43.539	-21.204	1.00	91.30	A16S
ATOM	30348	O6	G	A1435	130.678	42.627	-21.910	1.00	91.30	A16S
ATOM	30349	C5	G	A1435	129.753	43.473	-19.859	1.00	91.30	A16S
ATOM	30350	N7	G	A1435	129.697	42.401	-18.979	1.00	91.30	A16S
ATOM	30351	C8	G	A1435	129.166	42.898	-17.896	1.00	91.30	A16S
ATOM	30352	C2*	G	A1435	126.683	44.947	-17.088	1.00	81.90	A16S
ATOM	30353	O2*	G	A1435	126.069	46.155	-16.683	1.00	81.90	A16S
ATOM	30354	C3*	G	A1435	126.395	43.806	-16.123	1.00	81.90	A16S
ATOM	30355	O3*	G	A1435	125.067	43.866	-15.593	1.00	81.90	A16S
ATOM	30356	P	U	A1436	123.847	43.162	-16.385	1.00	77.81	A16S
ATOM	30357	O1P	U	A1436	122.749	42.924	-15.402	1.00	82.70	A16S
ATOM	30358	O2P	U	A1436	124.364	42.027	-17.195	1.00	82.70	A16S
ATOM	30359	O5*	U	A1436	123.339	44.287	-17.391	1.00	77.81	A16S
ATOM	30360	C5*	U	A1436	122.663	45.457	-16.896	1.00	77.81	A16S
ATOM	30361	C4*	U	A1436	122.578	46.507	-17.974	1.00	77.81	A16S
ATOM	30362	O4*	U	A1436	123.921	46.875	-18.378	1.00	77.81	A16S
ATOM	30363	C1*	U	A1436	123.928	47.201	-19.753	1.00	77.81	A16S
ATOM	30364	N1	U	A1436	124.875	46.315	-20.439	1.00	82.70	A16S
ATOM	30365	C6	U	A1436	124.998	44.988	-20.096	1.00	82.70	A16S
ATOM	30366	C2	U	A1436	125.627	46.857	-21.459	1.00	82.70	A16S
ATOM	30367	O2	U	A1436	125.581	48.043	-21.760	1.00	82.70	A16S
ATOM	30368	N3	U	A1436	126.446	45.965	-22.107	1.00	82.70	A16S
ATOM	30369	C4	U	A1436	126.600	44.625	-21.827	1.00	82.70	A16S
ATOM	30370	O4	U	A1436	127.364	43.947	-22.513	1.00	82.70	A16S
ATOM	30371	C5	U	A1436	125.814	44.151	-20.735	1.00	82.70	A16S
ATOM	30372	C2*	U	A1436	122.501	47.046	-20.284	1.00	77.81	A16S
ATOM	30373	O2*	U	A1436	121.854	48.296	-20.258	1.00	77.81	A16S
ATOM	30374	C3*	U	A1436	121.884	46.100	-19.267	1.00	77.81	A16S
ATOM	30375	O3*	U	A1436	120.477	46.302	-19.203	1.00	77.81	A16S
ATOM	30376	P	C	A1437	119.513	45.472	-20.182	1.00	82.12	A16S
ATOM	30377	O1P	C	A1437	118.147	46.042	-20.076	1.00	94.44	A16S
ATOM	30378	O2P	C	A1437	119.729	44.030	-19.920	1.00	94.44	A16S
ATOM	30379	O5*	C	A1437	120.065	45.781	-21.639	1.00	82.12	A16S
ATOM	30380	C5*	C	A1437	119.851	47.064	-22.236	1.00	82.12	A16S
ATOM	30381	C4*	C	A1437	120.469	47.112	-23.611	1.00	82.12	A16S
ATOM	30382	O4*	C	A1437	121.909	46.970	-23.504	1.00	82.12	A16S
ATOM	30383	C1*	C	A1437	122.400	46.280	-24.639	1.00	82.12	A16S
ATOM	30384	N1	C	A1437	123.085	45.050	-24.199	1.00	94.44	A16S
ATOM	30385	C6	C	A1437	122.765	44.448	-23.016	1.00	94.44	A16S
ATOM	30386	C2	C	A1437	124.060	44.491	-25.030	1.00	94.44	A16S
ATOM	30387	O2	C	A1437	124.356	45.069	-26.096	1.00	94.44	A16S
ATOM	30388	N3	C	A1437	124.658	43.341	-24.659	1.00	94.44	A16S
ATOM	30389	C4	C	A1437	124.323	42.757	-23.516	1.00	94.44	A16S
ATOM	30390	N4	C	A1437	124.930	41.624	-23.204	1.00	94.44	A16S
ATOM	30391	C5	C	A1437	123.352	43.310	-22.645	1.00	94.44	A16S
ATOM	30392	C2*	C	A1437	121.209	45.969	-25.547	1.00	82.12	A16S
ATOM	30393	O2*	C	A1437	121.078	46.987	-26.516	1.00	82.12	A16S
ATOM	30394	C3*	C	A1437	120.053	46.006	-24.565	1.00	82.12	A16S
ATOM	30395	O3*	C	A1437	118.835	46.284	-25.228	1.00	82.12	A16S
ATOM	30396	P	G	A1438	117.874	45.068	-25.630	1.00	77.90	A16S
ATOM	30397	O1P	G	A1438	116.601	45.625	-26.173	1.00	85.61	A16S
ATOM	30398	O2P	G	A1438	117.844	44.163	-24.441	1.00	85.61	A16S
ATOM	30399	O5*	G	A1438	118.647	44.353	-26.828	1.00	77.90	A16S
ATOM	30400	C5*	G	A1438	118.802	45.030	-28.079	1.00	77.90	A16S
ATOM	30401	C4*	G	A1438	119.581	44.187	-29.056	1.00	77.90	A16S
ATOM	30402	O4*	G	A1438	120.959	44.049	-28.632	1.00	77.90	A16S
ATOM	30403	C1*	G	A1438	121.467	42.803	-29.079	1.00	77.90	A16S
ATOM	30404	N9	G	A1438	121.932	42.037	-27.926	1.00	85.61	A16S
ATOM	30405	C4	G	A1438	122.743	40.928	-27.966	1.00	85.61	A16S
ATOM	30406	N3	G	A1438	123.259	40.360	-29.078	1.00	85.61	A16S
ATOM	30407	C2	G	A1438	124.014	39.311	-28.790	1.00	85.61	A16S
ATOM	30408	N2	G	A1438	124.621	38.627	-29.770	1.00	85.61	A16S



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ATOM	30409	N1	G	A1438	124.233	38.855	-27.518	1.00	85.61	A16S
ATOM	30410	C6	G	A1438	123.705	39.415	-26.366	1.00	85.61	A16S
ATOM	30411	O6	G	A1438	123.955	38.914	-25.279	1.00	85.61	A16S
ATOM	30412	C5	G	A1438	122.904	40.545	-26.652	1.00	85.61	A16S
ATOM	30413	N7	G	A1438	122.209	41.395	-25.800	1.00	85.61	A16S
ATOM	30414	C8	G	A1438	121.649	42.264	-26.597	1.00	85.61	A16S
ATOM	30415	C2*	G	A1438	120.349	42.081	-29.830	1.00	77.90	A16S
ATOM	30416	O2*	G	A1438	120.536	42.282	-31.215	1.00	77.90	A16S
ATOM	30417	C3*	G	A1438	119.101	42.765	-29.275	1.00	77.90	A16S
ATOM	30418	O3*	G	A1438	118.017	42.727	-30.191	1.00	77.90	A16S
ATOM	30419	P	C	A1439	116.991	41.492	-30.157	1.00	89.89	A16S
ATOM	30420	O1P	C	A1439	115.895	41.802	-31.114	1.00	95.15	A16S
ATOM	30421	O2P	C	A1439	116.670	41.173	-28.745	1.00	95.15	A16S
ATOM	30422	O5*	C	A1439	117.826	40.277	-30.753	1.00	89.89	A16S
ATOM	30423	C5*	C	A1439	118.087	40.187	-32.160	1.00	89.89	A16S
ATOM	30424	C4*	C	A1439	118.878	38.946	-32.454	1.00	89.89	A16S
ATOM	30425	O4*	C	A1439	120.166	39.049	-31.798	1.00	89.89	A16S
ATOM	30426	C1*	C	A1439	120.563	37.772	-31.324	1.00	89.89	A16S
ATOM	30427	N1	C	A1439	120.690	37.817	-29.854	1.00	95.15	A16S
ATOM	30428	C6	C	A1439	120.052	38.775	-29.113	1.00	95.15	A16S
ATOM	30429	C2	C	A1439	121.478	36.847	-29.221	1.00	95.15	A16S
ATOM	30430	O2	C	A1439	122.039	35.981	-29.917	1.00	95.15	A16S
ATOM	30431	N3	C	A1439	121.605	36.875	-27.875	1.00	95.15	A16S
ATOM	30432	C4	C	A1439	120.988	37.820	-27.168	1.00	95.15	A16S
ATOM	30433	N4	C	A1439	121.163	37.825	-25.852	1.00	95.15	A16S
ATOM	30434	C5	C	A1439	120.171	38.810	-27.782	1.00	95.15	A16S
ATOM	30435	C2*	C	A1439	119.499	36.767	-31.750	1.00	89.89	A16S
ATOM	30436	O2*	C	A1439	119.893	36.160	-32.961	1.00	89.89	A16S
ATOM	30437	C3*	C	A1439	118.283	37.666	-31.896	1.00	89.89	A16S
ATOM	30438	O3*	C	A1439	117.283	37.100	-32.720	1.00	89.89	A16S
ATOM	30439	P	C	A1440	116.127	36.214	-32.044	1.00	91.58	A16S
ATOM	30440	O1P	C	A1440	115.095	35.961	-33.087	1.00	82.27	A16S
ATOM	30441	O2P	C	A1440	115.743	36.871	-30.765	1.00	82.27	A16S
ATOM	30442	O5*	C	A1440	116.847	34.837	-31.686	1.00	91.58	A16S
ATOM	30443	C5*	C	A1440	117.391	34.010	-32.726	1.00	91.58	A16S
ATOM	30444	C4*	C	A1440	118.210	32.878	-32.145	1.00	91.58	A16S
ATOM	30445	O4*	C	A1440	119.327	33.407	-31.382	1.00	91.58	A16S
ATOM	30446	C1*	C	A1440	119.643	32.515	-30.328	1.00	91.58	A16S
ATOM	30447	N1	C	A1440	119.401	33.191	-29.046	1.00	82.27	A16S
ATOM	30448	C6	C	A1440	118.665	34.341	-28.980	1.00	82.27	A16S
ATOM	30449	C2	C	A1440	119.920	32.620	-27.882	1.00	82.27	A16S
ATOM	30450	O2	C	A1440	120.597	31.588	-27.970	1.00	82.27	A16S
ATOM	30451	N3	C	A1440	119.672	33.202	-26.694	1.00	82.27	A16S
ATOM	30452	C4	C	A1440	118.937	34.312	-26.639	1.00	82.27	A16S
ATOM	30453	N4	C	A1440	118.697	34.837	-25.441	1.00	82.27	A16S
ATOM	30454	C5	C	A1440	118.410	34.928	-27.808	1.00	82.27	A16S
ATOM	30455	C2*	C	A1440	118.711	31.314	-30.449	1.00	91.58	A16S
ATOM	30456	O2*	C	A1440	119.358	30.295	-31.189	1.00	91.58	A16S
ATOM	30457	C3*	C	A1440	117.524	31.926	-31.178	1.00	91.58	A16S
ATOM	30458	O3*	C	A1440	116.741	30.932	-31.828	1.00	91.58	A16S
ATOM	30459	P	G	A1441	115.346	30.474	-31.173	1.00	93.39	A16S
ATOM	30460	O1P	G	A1441	114.839	29.292	-31.918	1.00	81.53	A16S
ATOM	30461	O2P	G	A1441	114.487	31.675	-31.039	1.00	81.53	A16S
ATOM	30462	O5*	G	A1441	115.776	29.995	-29.722	1.00	93.39	A16S
ATOM	30463	C5*	G	A1441	116.728	28.935	-29.563	1.00	93.39	A16S
ATOM	30464	C4*	G	A1441	116.968	28.667	-28.102	1.00	93.39	A16S
ATOM	30465	O4*	G	A1441	117.705	29.769	-27.510	1.00	93.39	A16S
ATOM	30466	C1*	G	A1441	117.212	30.031	-26.206	1.00	93.39	A16S
ATOM	30467	N9	G	A1441	116.606	31.364	-26.231	1.00	81.53	A16S
ATOM	30468	C4	G	A1441	116.520	32.272	-25.199	1.00	81.53	A16S
ATOM	30469	N3	G	A1441	116.961	32.090	-23.942	1.00	81.53	A16S
ATOM	30470	C2	G	A1441	116.738	33.149	-23.185	1.00	81.53	A16S
ATOM	30471	N2	G	A1441	117.084	33.129	-21.894	1.00	81.53	A16S
ATOM	30472	N1	G	A1441	116.147	34.307	-23.631	1.00	81.53	A16S
ATOM	30473	C6	G	A1441	115.681	34.519	-24.923	1.00	81.53	A16S
ATOM	30474	O6	G	A1441	115.152	35.611	-25.230	1.00	81.53	A16S
ATOM	30475	C5	G	A1441	115.898	33.380	-25.739	1.00	81.53	A16S
ATOM	30476	N7	G	A1441	115.581	33.166	-27.070	1.00	81.53	A16S
ATOM	30477	C8	G	A1441	116.015	31.963	-27.317	1.00	81.53	A16S
ATOM	30478	C2*	G	A1441	116.212	28.915	-25.879	1.00	93.39	A16S
ATOM	30479	O2*	G	A1441	116.899	27.833	-25.268	1.00	93.39	A16S
ATOM	30480	C3*	G	A1441	115.707	28.544	-27.268	1.00	93.39	A16S
ATOM	30481	O3*	G	A1441	115.175	27.231	-27.343	1.00	93.39	A16S
ATOM	30482	P	G	A1442	113.656	27.005	-27.831	1.00	128.01	A16S
ATOM	30483	O1P	G	A1442	113.325	28.010	-28.876	1.00	142.40	A16S
ATOM	30484	O2P	G	A1442	112.805	26.909	-26.614	1.00	142.40	A16S
ATOM	30485	O5*	G	A1442	113.727	25.560	-28.503	1.00	128.01	A16S



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ATOM	30486	C5*	G	A1442	113.402	25.343	-29.896	1.00128.01	A16S
ATOM	30487	C4*	G	A1442	114.437	24.444	-30.550	1.00128.01	A16S
ATOM	30488	O4*	G	A1442	115.583	25.229	-30.968	1.00128.01	A16S
ATOM	30489	C1*	G	A1442	116.759	24.448	-30.866	1.00128.01	A16S
ATOM	30490	N9	G	A1442	117.725	25.193	-30.063	1.00142.40	A16S
ATOM	30491	C4	G	A1442	118.112	24.942	-28.765	1.00142.40	A16S
ATOM	30492	N3	G	A1442	117.698	23.912	-27.999	1.00142.40	A16S
ATOM	30493	C2	G	A1442	118.231	23.947	-26.789	1.00142.40	A16S
ATOM	30494	N2	G	A1442	117.945	22.971	-25.908	1.00142.40	A16S
ATOM	30495	N1	G	A1442	119.087	24.932	-26.355	1.00142.40	A16S
ATOM	30496	C6	G	A1442	119.525	26.004	-27.123	1.00142.40	A16S
ATOM	30497	O6	G	A1442	120.291	26.840	-26.630	1.00142.40	A16S
ATOM	30498	C5	G	A1442	118.979	25.963	-28.437	1.00142.40	A16S
ATOM	30499	N7	G	A1442	119.164	26.815	-29.516	1.00142.40	A16S
ATOM	30500	C8	G	A1442	118.408	26.317	-30.457	1.00142.40	A16S
ATOM	30501	C2*	G	A1442	116.366	23.055	-30.355	1.00128.01	A16S
ATOM	30502	O2*	G	A1442	116.284	22.180	-31.459	1.00128.01	A16S
ATOM	30503	C3*	G	A1442	115.006	23.311	-29.699	1.00128.01	A16S
ATOM	30504	O3*	G	A1442	114.169	22.138	-29.732	1.00128.01	A16S
ATOM	30505	P	G	A1443	113.774	21.371	-28.361	1.00148.06	A16S
ATOM	30506	O1P	G	A1443	112.322	21.592	-28.131	1.00106.46	A16S
ATOM	30507	O2P	G	A1443	114.751	21.691	-27.277	1.00106.46	A16S
ATOM	30508	O5*	G	A1443	113.925	19.828	-28.728	1.00148.06	A16S
ATOM	30509	C5*	G	A1443	114.775	18.950	-27.957	1.00148.06	A16S
ATOM	30510	C4*	G	A1443	114.768	17.569	-28.566	1.00148.06	A16S
ATOM	30511	O4*	G	A1443	113.420	17.062	-28.479	1.00148.06	A16S
ATOM	30512	C1*	G	A1443	113.079	16.397	-29.672	1.00148.06	A16S
ATOM	30513	N9	G	A1443	111.842	16.992	-30.161	1.00106.46	A16S
ATOM	30514	C4	G	A1443	110.716	16.307	-30.525	1.00106.46	A16S
ATOM	30515	N3	G	A1443	110.587	14.969	-30.554	1.00106.46	A16S
ATOM	30516	C2	G	A1443	109.375	14.599	-30.916	1.00106.46	A16S
ATOM	30517	N2	G	A1443	109.080	13.295	-31.017	1.00106.46	A16S
ATOM	30518	N1	G	A1443	108.362	15.477	-31.213	1.00106.46	A16S
ATOM	30519	C6	G	A1443	108.469	16.861	-31.182	1.00106.46	A16S
ATOM	30520	O6	G	A1443	107.484	17.560	-31.450	1.00106.46	A16S
ATOM	30521	C5	G	A1443	109.774	17.272	-30.812	1.00106.46	A16S
ATOM	30522	N7	G	A1443	110.311	18.544	-30.666	1.00106.46	A16S
ATOM	30523	C8	G	A1443	111.543	18.330	-30.291	1.00106.46	A16S
ATOM	30524	C2*	G	A1443	114.293	16.397	-30.604	1.00148.06	A16S
ATOM	30525	O2*	G	A1443	114.939	15.144	-30.499	1.00148.06	A16S
ATOM	30526	C3*	G	A1443	115.129	17.547	-30.045	1.00148.06	A16S
ATOM	30527	O3*	G	A1443	116.525	17.277	-30.180	1.00148.06	A16S
ATOM	30528	P	A	A1446	117.551	18.470	-30.508	1.00134.94	A16S
ATOM	30529	O1P	A	A1446	116.758	19.703	-30.741	1.00189.05	A16S
ATOM	30530	O2P	A	A1446	118.499	18.003	-31.550	1.00189.05	A16S
ATOM	30531	O5*	A	A1446	118.361	18.657	-29.153	1.00134.94	A16S
ATOM	30532	C5*	A	A1446	117.759	19.305	-28.032	1.00134.94	A16S
ATOM	30533	C4*	A	A1446	118.548	19.022	-26.791	1.00134.94	A16S
ATOM	30534	O4*	A	A1446	119.867	19.602	-26.920	1.00134.94	A16S
ATOM	30535	C1*	A	A1446	120.322	20.033	-25.649	1.00134.94	A16S
ATOM	30536	N9	A	A1446	120.802	21.417	-25.753	1.00189.05	A16S
ATOM	30537	C4	A	A1446	121.427	21.988	-26.840	1.00189.05	A16S
ATOM	30538	N3	A	A1446	121.704	21.410	-28.024	1.00189.05	A16S
ATOM	30539	C2	A	A1446	122.329	22.265	-28.832	1.00189.05	A16S
ATOM	30540	N1	A	A1446	122.682	23.537	-28.611	1.00189.05	A16S
ATOM	30541	C6	A	A1446	122.390	24.089	-27.413	1.00189.05	A16S
ATOM	30542	N6	A	A1446	122.743	25.357	-27.193	1.00189.05	A16S
ATOM	30543	C5	A	A1446	121.726	23.286	-26.464	1.00189.05	A16S
ATOM	30544	N7	A	A1446	121.291	23.536	-25.169	1.00189.05	A16S
ATOM	30545	C8	A	A1446	120.750	22.403	-24.794	1.00189.05	A16S
ATOM	30546	C2*	A	A1446	119.207	19.778	-24.630	1.00134.94	A16S
ATOM	30547	O2*	A	A1446	119.506	18.603	-23.902	1.00134.94	A16S
ATOM	30548	C3*	A	A1446	117.980	19.633	-25.527	1.00134.94	A16S
ATOM	30549	O3*	A	A1446	117.005	18.755	-24.975	1.00134.94	A16S
ATOM	30550	P	G	A1447	115.977	19.298	-23.862	1.00 97.90	A16S
ATOM	30551	O1P	G	A1447	114.758	18.439	-23.879	1.00106.57	A16S
ATOM	30552	O2P	G	A1447	115.839	20.776	-24.083	1.00106.57	A16S
ATOM	30553	O5*	G	A1447	116.722	19.020	-22.478	1.00 97.90	A16S
ATOM	30554	C5*	G	A1447	116.027	19.185	-21.243	1.00 97.90	A16S
ATOM	30555	C4*	G	A1447	116.953	19.726	-20.189	1.00 97.90	A16S
ATOM	30556	O4*	G	A1447	117.858	20.701	-20.758	1.00 97.90	A16S
ATOM	30557	C1*	G	A1447	117.958	21.830	-19.904	1.00 97.90	A16S
ATOM	30558	N9	G	A1447	117.430	22.980	-20.639	1.00106.57	A16S
ATOM	30559	C4	G	A1447	117.092	24.214	-20.133	1.00106.57	A16S
ATOM	30560	N3	G	A1447	117.200	24.599	-18.847	1.00106.57	A16S
ATOM	30561	C2	G	A1447	116.784	25.841	-18.670	1.00106.57	A16S
ATOM	30562	N2	G	A1447	116.825	26.385	-17.451	1.00106.57	A16S



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ATOM	30563	N1	G	A1447	116.297	26.641	-19.676	1.00106.57	A16S
ATOM	30564	C6	G	A1447	116.176	26.265	-21.010	1.00106.57	A16S
ATOM	30565	O6	G	A1447	115.721	27.067	-21.843	1.00106.57	A16S
ATOM	30566	C5	G	A1447	116.622	24.936	-21.213	1.00106.57	A16S
ATOM	30567	N7	G	A1447	116.674	24.180	-22.371	1.00106.57	A16S
ATOM	30568	C8	G	A1447	117.161	23.034	-21.986	1.00106.57	A16S
ATOM	30569	C2*	G	A1447	117.187	21.501	-18.622	1.00 97.90	A16S
ATOM	30570	O2*	G	A1447	118.068	20.986	-17.651	1.00 97.90	A16S
ATOM	30571	C3*	G	A1447	116.186	20.474	-19.128	1.00 97.90	A16S
ATOM	30572	O3*	G	A1447	115.703	19.567	-18.165	1.00 97.90	A16S
ATOM	30573	P	C	A1448	114.118	19.430	-17.950	1.00 95.95	A16S
ATOM	30574	O1P	C	A1448	113.882	18.137	-17.256	1.00 96.45	A16S
ATOM	30575	O2P	C	A1448	113.426	19.707	-19.247	1.00 96.45	A16S
ATOM	30576	O5*	C	A1448	113.793	20.608	-16.926	1.00 95.95	A16S
ATOM	30577	C5*	C	A1448	114.384	20.618	-15.606	1.00 95.95	A16S
ATOM	30578	C4*	C	A1448	114.137	21.940	-14.922	1.00 95.95	A16S
ATOM	30579	O4*	C	A1448	114.933	22.980	-15.552	1.00 95.95	A16S
ATOM	30580	C1*	C	A1448	114.197	24.197	-15.580	1.00 95.95	A16S
ATOM	30581	N1	C	A1448	113.898	24.535	-16.991	1.00 96.45	A16S
ATOM	30582	C6	C	A1448	114.132	23.634	-17.990	1.00 96.45	A16S
ATOM	30583	C2	C	A1448	113.346	25.791	-17.293	1.00 96.45	A16S
ATOM	30584	O2	C	A1448	113.147	26.601	-16.377	1.00 96.45	A16S
ATOM	30585	N3	C	A1448	113.038	26.086	-18.573	1.00 96.45	A16S
ATOM	30586	C4	C	A1448	113.255	25.189	-19.533	1.00 96.45	A16S
ATOM	30587	N4	C	A1448	112.915	25.510	-20.780	1.00 96.45	A16S
ATOM	30588	C5	C	A1448	113.826	23.916	-19.259	1.00 96.45	A16S
ATOM	30589	C2*	C	A1448	112.902	23.953	-14.807	1.00 95.95	A16S
ATOM	30590	O2*	C	A1448	113.072	24.291	-13.446	1.00 95.95	A16S
ATOM	30591	C3*	C	A1448	112.717	22.462	-15.011	1.00 95.95	A16S
ATOM	30592	O3*	C	A1448	111.828	21.885	-14.085	1.00 95.95	A16S
ATOM	30593	P	C	A1449	110.335	21.534	-14.564	1.00 92.40	A16S
ATOM	30594	O1P	C	A1449	109.741	20.638	-13.536	1.00100.09	A16S
ATOM	30595	O2P	C	A1449	110.384	21.093	-15.979	1.00100.09	A16S
ATOM	30596	O5*	C	A1449	109.574	22.934	-14.546	1.00 92.40	A16S
ATOM	30597	C5*	C	A1449	109.461	23.696	-13.328	1.00 92.40	A16S
ATOM	30598	C4*	C	A1449	108.736	24.998	-13.579	1.00 92.40	A16S
ATOM	30599	O4*	C	A1449	109.587	25.923	-14.305	1.00 92.40	A16S
ATOM	30600	C1*	C	A1449	108.797	26.704	-15.188	1.00 92.40	A16S
ATOM	30601	N1	C	A1449	109.188	26.391	-16.577	1.00100.09	A16S
ATOM	30602	C6	C	A1449	110.034	25.355	-16.859	1.00100.09	A16S
ATOM	30603	C2	C	A1449	108.647	27.155	-17.611	1.00100.09	A16S
ATOM	30604	O2	C	A1449	107.912	28.106	-17.325	1.00100.09	A16S
ATOM	30605	N3	C	A1449	108.936	26.837	-18.893	1.00100.09	A16S
ATOM	30606	C4	C	A1449	109.734	25.803	-19.157	1.00100.09	A16S
ATOM	30607	N4	C	A1449	109.964	25.502	-20.432	1.00100.09	A16S
ATOM	30608	C5	C	A1449	110.325	25.026	-18.123	1.00100.09	A16S
ATOM	30609	C2*	C	A1449	107.337	26.317	-14.952	1.00 92.40	A16S
ATOM	30610	O2*	C	A1449	106.767	27.195	-14.004	1.00 92.40	A16S
ATOM	30611	C3*	C	A1449	107.482	24.900	-14.422	1.00 92.40	A16S
ATOM	30612	O3*	C	A1449	106.359	24.469	-13.680	1.00 92.40	A16S
ATOM	30613	P	U	A1450	105.269	23.523	-14.389	1.00 75.43	A16S
ATOM	30614	O1P	U	A1450	104.352	22.994	-13.356	1.00 89.82	A16S
ATOM	30615	O2P	U	A1450	106.003	22.578	-15.286	1.00 89.82	A16S
ATOM	30616	O5*	U	A1450	104.414	24.528	-15.277	1.00 75.43	A16S
ATOM	30617	C5*	U	A1450	103.777	25.675	-14.690	1.00 75.43	A16S
ATOM	30618	C4*	U	A1450	103.310	26.618	-15.773	1.00 75.43	A16S
ATOM	30619	O4*	U	A1450	104.457	27.106	-16.527	1.00 75.43	A16S
ATOM	30620	C1*	U	A1450	104.074	27.346	-17.868	1.00 75.43	A16S
ATOM	30621	N1	U	A1450	104.897	26.528	-18.770	1.00 89.82	A16S
ATOM	30622	C6	U	A1450	105.599	25.434	-18.322	1.00 89.82	A16S
ATOM	30623	C2	U	A1450	104.913	26.879	-20.119	1.00 89.82	A16S
ATOM	30624	O2	U	A1450	104.351	27.869	-20.558	1.00 89.82	A16S
ATOM	30625	N3	U	A1450	105.612	26.027	-20.936	1.00 89.82	A16S
ATOM	30626	C4	U	A1450	106.297	24.892	-20.559	1.00 89.82	A16S
ATOM	30627	O4	U	A1450	106.771	24.157	-21.433	1.00 89.82	A16S
ATOM	30628	C5	U	A1450	106.279	24.625	-19.146	1.00 89.82	A16S
ATOM	30629	C2*	U	A1450	102.593	26.985	-18.002	1.00 75.43	A16S
ATOM	30630	O2*	U	A1450	101.815	28.154	-17.881	1.00 75.43	A16S
ATOM	30631	C3*	U	A1450	102.389	26.027	-16.835	1.00 75.43	A16S
ATOM	30632	O3*	U	A1450	101.021	25.952	-16.407	1.00 75.43	A16S
ATOM	30633	P	A	A1451	99.927	25.187	-17.315	1.00 83.99	A16S
ATOM	30634	O1P	A	A1451	99.044	24.393	-16.424	1.00100.82	A16S
ATOM	30635	O2P	A	A1451	100.612	24.512	-18.445	1.00100.82	A16S
ATOM	30636	O5*	A	A1451	99.062	26.394	-17.891	1.00 83.99	A16S
ATOM	30637	C5*	A	A1451	97.968	26.182	-18.811	1.00 83.99	A16S
ATOM	30638	C4*	A	A1451	97.382	27.517	-19.214	1.00 83.99	A16S
ATOM	30639	O4*	A	A1451	96.895	28.174	-18.024	1.00 83.99	A16S



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ATOM	30640	C1*	A	A1451	97.346	29.509	-17.981	1.00	83.99	A16S
ATOM	30641	N9	A	A1451	98.162	29.627	-16.785	1.00	100.82	A16S
ATOM	30642	C4	A	A1451	97.874	30.408	-15.699	1.00	100.82	A16S
ATOM	30643	N3	A	A1451	96.841	31.256	-15.561	1.00	100.82	A16S
ATOM	30644	C2	A	A1451	96.857	31.817	-14.354	1.00	100.82	A16S
ATOM	30645	N1	A	A1451	97.722	31.633	-13.342	1.00	100.82	A16S
ATOM	30646	C6	A	A1451	98.748	30.768	-13.518	1.00	100.82	A16S
ATOM	30647	N6	A	A1451	99.602	30.571	-12.508	1.00	100.82	A16S
ATOM	30648	C5	A	A1451	98.847	30.120	-14.762	1.00	100.82	A16S
ATOM	30649	N7	A	A1451	99.759	29.206	-15.269	1.00	100.82	A16S
ATOM	30650	C8	A	A1451	99.313	28.957	-16.474	1.00	100.82	A16S
ATOM	30651	C2*	A	A1451	98.042	29.841	-19.299	1.00	83.99	A16S
ATOM	30652	O2*	A	A1451	97.168	30.581	-20.119	1.00	83.99	A16S
ATOM	30653	C3*	A	A1451	98.414	28.457	-19.814	1.00	83.99	A16S
ATOM	30654	O3*	A	A1451	98.485	28.310	-21.237	1.00	83.99	A16S
ATOM	30655	P	C	A1452	97.137	28.117	-22.129	1.00	94.82	A16S
ATOM	30656	O1P	C	A1452	96.142	29.191	-21.897	1.00	83.04	A16S
ATOM	30657	O2P	C	A1452	96.711	26.699	-21.994	1.00	83.04	A16S
ATOM	30658	O5*	C	A1452	97.693	28.296	-23.613	1.00	94.82	A16S
ATOM	30659	C5*	C	A1452	98.386	29.506	-23.996	1.00	94.82	A16S
ATOM	30660	C4*	C	A1452	99.691	29.188	-24.700	1.00	94.82	A16S
ATOM	30661	O4*	C	A1452	100.684	28.686	-23.765	1.00	94.82	A16S
ATOM	30662	C1*	C	A1452	101.283	27.531	-24.309	1.00	94.82	A16S
ATOM	30663	N1	C	A1452	101.710	26.642	-23.219	1.00	83.04	A16S
ATOM	30664	C6	C	A1452	101.018	26.588	-22.043	1.00	83.04	A16S
ATOM	30665	C2	C	A1452	102.844	25.826	-23.415	1.00	83.04	A16S
ATOM	30666	O2	C	A1452	103.472	25.903	-24.484	1.00	83.04	A16S
ATOM	30667	N3	C	A1452	103.219	24.977	-22.437	1.00	83.04	A16S
ATOM	30668	C4	C	A1452	102.519	24.916	-21.302	1.00	83.04	A16S
ATOM	30669	N4	C	A1452	102.908	24.041	-20.375	1.00	83.04	A16S
ATOM	30670	C5	C	A1452	101.382	25.746	-21.069	1.00	83.04	A16S
ATOM	30671	C2*	C	A1452	100.237	26.928	-25.248	1.00	94.82	A16S
ATOM	30672	O2*	C	A1452	100.845	26.087	-26.218	1.00	94.82	A16S
ATOM	30673	C3*	C	A1452	99.630	28.190	-25.854	1.00	94.82	A16S
ATOM	30674	O3*	C	A1452	100.509	28.624	-26.887	1.00	94.82	A16S
ATOM	30675	P	G	A1453	99.976	29.599	-28.046	1.00	98.65	A16S
ATOM	30676	O1P	G	A1453	98.491	29.507	-28.156	1.00	88.77	A16S
ATOM	30677	O2P	G	A1453	100.826	29.333	-29.236	1.00	88.77	A16S
ATOM	30678	O5*	G	A1453	100.311	31.050	-27.491	1.00	98.65	A16S
ATOM	30679	C5*	G	A1453	101.666	31.438	-27.206	1.00	98.65	A16S
ATOM	30680	C4*	G	A1453	101.677	32.806	-26.590	1.00	98.65	A16S
ATOM	30681	O4*	G	A1453	100.720	32.816	-25.506	1.00	98.65	A16S
ATOM	30682	C1*	G	A1453	101.173	33.688	-24.497	1.00	98.65	A16S
ATOM	30683	N9	G	A1453	101.048	33.009	-23.209	1.00	88.77	A16S
ATOM	30684	C4	G	A1453	101.733	31.893	-22.771	1.00	88.77	A16S
ATOM	30685	N3	G	A1453	102.667	31.206	-23.463	1.00	88.77	A16S
ATOM	30686	C2	G	A1453	103.125	30.172	-22.779	1.00	88.77	A16S
ATOM	30687	N2	G	A1453	104.049	29.375	-23.319	1.00	88.77	A16S
ATOM	30688	N1	G	A1453	102.708	29.841	-21.517	1.00	88.77	A16S
ATOM	30689	C6	G	A1453	101.748	30.530	-20.787	1.00	88.77	A16S
ATOM	30690	O6	G	A1453	101.434	30.141	-19.659	1.00	88.77	A16S
ATOM	30691	C5	G	A1453	101.245	31.640	-21.505	1.00	88.77	A16S
ATOM	30692	N7	G	A1453	100.281	32.576	-21.151	1.00	88.77	A16S
ATOM	30693	C8	G	A1453	100.198	33.364	-22.188	1.00	88.77	A16S
ATOM	30694	C2*	G	A1453	102.551	34.241	-24.901	1.00	98.65	A16S
ATOM	30695	O2*	G	A1453	102.407	35.556	-25.407	1.00	98.65	A16S
ATOM	30696	C3*	G	A1453	102.996	33.260	-25.984	1.00	98.65	A16S
ATOM	30697	O3*	G	A1453	103.782	33.927	-26.977	1.00	98.65	A16S
ATOM	30698	P	G	A1454	105.283	33.431	-27.295	1.00	77.52	A16S
ATOM	30699	O1P	G	A1454	105.686	34.097	-28.564	1.00	86.45	A16S
ATOM	30700	O2P	G	A1454	105.301	31.950	-27.217	1.00	86.45	A16S
ATOM	30701	O5*	G	A1454	106.173	34.001	-26.097	1.00	77.52	A16S
ATOM	30702	C5*	G	A1454	105.944	35.318	-25.568	1.00	77.52	A16S
ATOM	30703	C4*	G	A1454	106.055	35.315	-24.058	1.00	77.52	A16S
ATOM	30704	O4*	G	A1454	105.186	34.273	-23.528	1.00	77.52	A16S
ATOM	30705	C1*	G	A1454	105.788	33.669	-22.384	1.00	77.52	A16S
ATOM	30706	N9	G	A1454	106.245	32.318	-22.731	1.00	86.45	A16S
ATOM	30707	C4	G	A1454	106.690	31.368	-21.838	1.00	86.45	A16S
ATOM	30708	N3	G	A1454	106.708	31.494	-20.496	1.00	86.45	A16S
ATOM	30709	C2	G	A1454	107.231	30.433	-19.905	1.00	86.45	A16S
ATOM	30710	N2	G	A1454	107.324	30.405	-18.568	1.00	86.45	A16S
ATOM	30711	N1	G	A1454	107.703	29.329	-20.580	1.00	86.45	A16S
ATOM	30712	C6	G	A1454	107.697	29.173	-21.959	1.00	86.45	A16S
ATOM	30713	O6	G	A1454	108.157	28.144	-22.458	1.00	86.45	A16S
ATOM	30714	C5	G	A1454	107.129	30.311	-22.611	1.00	86.45	A16S
ATOM	30715	N7	G	A1454	106.925	30.571	-23.961	1.00	86.45	A16S
ATOM	30716	C8	G	A1454	106.388	31.763	-23.985	1.00	86.45	A16S



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ATOM	30717	C2*	G	A1454	107.032	34.492	-22.064	1.00	77.52	A16S
ATOM	30718	O2*	G	A1454	106.726	35.536	-21.154	1.00	77.52	A16S
ATOM	30719	C3*	G	A1454	107.414	34.983	-23.452	1.00	77.52	A16S
ATOM	30720	O3*	G	A1454	108.344	36.049	-23.393	1.00	77.52	A16S
ATOM	30721	P	G	A1455	109.905	35.713	-23.171	1.00	82.55	A16S
ATOM	30722	O1P	G	A1455	110.672	36.976	-23.309	1.00	91.47	A16S
ATOM	30723	O2P	G	A1455	110.288	34.534	-23.988	1.00	91.47	A16S
ATOM	30724	O5*	G	A1455	109.969	35.293	-21.642	1.00	82.55	A16S
ATOM	30725	C5*	G	A1455	109.513	36.193	-20.626	1.00	82.55	A16S
ATOM	30726	C4*	G	A1455	109.788	35.610	-19.277	1.00	82.55	A16S
ATOM	30727	O4*	G	A1455	109.040	34.372	-19.145	1.00	82.55	A16S
ATOM	30728	C1*	G	A1455	109.831	33.405	-18.460	1.00	82.55	A16S
ATOM	30729	N9	G	A1455	110.154	32.309	-19.379	1.00	91.47	A16S
ATOM	30730	C4	G	A1455	110.692	31.082	-19.034	1.00	91.47	A16S
ATOM	30731	N3	G	A1455	110.978	30.662	-17.782	1.00	91.47	A16S
ATOM	30732	C2	G	A1455	111.492	29.451	-17.777	1.00	91.47	A16S
ATOM	30733	N2	G	A1455	111.817	28.878	-16.617	1.00	91.47	A16S
ATOM	30734	N1	G	A1455	111.718	28.714	-18.910	1.00	91.47	A16S
ATOM	30735	C6	G	A1455	111.438	29.132	-20.206	1.00	91.47	A16S
ATOM	30736	O6	G	A1455	111.692	28.401	-21.157	1.00	91.47	A16S
ATOM	30737	C5	G	A1455	110.876	30.416	-20.227	1.00	91.47	A16S
ATOM	30738	N7	G	A1455	110.447	31.187	-21.297	1.00	91.47	A16S
ATOM	30739	C8	G	A1455	110.023	32.296	-20.751	1.00	91.47	A16S
ATOM	30740	C2*	G	A1455	111.117	34.105	-18.021	1.00	82.55	A16S
ATOM	30741	O2*	G	A1455	110.997	34.600	-16.695	1.00	82.55	A16S
ATOM	30742	C3*	G	A1455	111.231	35.187	-19.080	1.00	82.55	A16S
ATOM	30743	O3*	G	A1455	112.102	36.234	-18.723	1.00	82.55	A16S
ATOM	30744	P	C	A1459	113.662	36.091	-19.068	1.00	86.41	A16S
ATOM	30745	O1P	C	A1459	114.326	37.376	-18.732	1.00	82.64	A16S
ATOM	30746	O2P	C	A1459	113.774	35.528	-20.450	1.00	82.64	A16S
ATOM	30747	O5*	C	A1459	114.195	34.973	-18.063	1.00	86.41	A16S
ATOM	30748	C5*	C	A1459	114.179	35.161	-16.625	1.00	86.41	A16S
ATOM	30749	C4*	C	A1459	114.698	33.917	-15.935	1.00	86.41	A16S
ATOM	30750	O4*	C	A1459	113.840	32.799	-16.298	1.00	86.41	A16S
ATOM	30751	C1*	C	A1459	114.622	31.624	-16.486	1.00	86.41	A16S
ATOM	30752	N1	C	A1459	114.545	31.198	-17.905	1.00	82.64	A16S
ATOM	30753	C6	C	A1459	113.997	32.004	-18.865	1.00	82.64	A16S
ATOM	30754	C2	C	A1459	115.060	29.946	-18.255	1.00	82.64	A16S
ATOM	30755	O2	C	A1459	115.548	29.229	-17.374	1.00	82.64	A16S
ATOM	30756	N3	C	A1459	115.016	29.547	-19.544	1.00	82.64	A16S
ATOM	30757	C4	C	A1459	114.476	30.337	-20.470	1.00	82.64	A16S
ATOM	30758	N4	C	A1459	114.439	29.887	-21.727	1.00	82.64	A16S
ATOM	30759	C5	C	A1459	113.944	31.617	-20.149	1.00	82.64	A16S
ATOM	30760	C2*	C	A1459	116.058	31.969	-16.111	1.00	86.41	A16S
ATOM	30761	O2*	C	A1459	116.305	31.630	-14.763	1.00	86.41	A16S
ATOM	30762	C3*	C	A1459	116.085	33.465	-16.375	1.00	86.41	A16S
ATOM	30763	O3*	C	A1459	117.171	34.107	-15.719	1.00	86.41	A16S
ATOM	30764	P	A	A1460	118.612	34.162	-16.454	1.00	94.66	A16S
ATOM	30765	O1P	A	A1460	119.530	34.936	-15.575	1.00	88.56	A16S
ATOM	30766	O2P	A	A1460	118.393	34.609	-17.867	1.00	88.56	A16S
ATOM	30767	O5*	A	A1460	119.104	32.639	-16.496	1.00	94.66	A16S
ATOM	30768	C5*	A	A1460	119.365	31.901	-15.280	1.00	94.66	A16S
ATOM	30769	C4*	A	A1460	119.873	30.512	-15.596	1.00	94.66	A16S
ATOM	30770	O4*	A	A1460	118.855	29.766	-16.301	1.00	94.66	A16S
ATOM	30771	C1*	A	A1460	119.463	28.890	-17.233	1.00	94.66	A16S
ATOM	30772	N9	A	A1460	118.978	29.239	-18.561	1.00	88.56	A16S
ATOM	30773	C4	A	A1460	119.107	28.487	-19.701	1.00	88.56	A16S
ATOM	30774	N3	A	A1460	119.689	27.281	-19.824	1.00	88.56	A16S
ATOM	30775	C2	A	A1460	119.631	26.857	-21.090	1.00	88.56	A16S
ATOM	30776	N1	A	A1460	119.094	27.456	-22.162	1.00	88.56	A16S
ATOM	30777	C6	A	A1460	118.510	28.667	-21.998	1.00	88.56	A16S
ATOM	30778	N6	A	A1460	117.959	29.267	-23.057	1.00	88.56	A16S
ATOM	30779	C5	A	A1460	118.512	29.225	-20.707	1.00	88.56	A16S
ATOM	30780	N7	A	A1460	118.012	30.419	-20.207	1.00	88.56	A16S
ATOM	30781	C8	A	A1460	118.314	30.377	-18.935	1.00	88.56	A16S
ATOM	30782	C2*	A	A1460	120.975	29.061	-17.127	1.00	94.66	A16S
ATOM	30783	O2*	A	A1460	121.536	28.048	-16.319	1.00	94.66	A16S
ATOM	30784	C3*	A	A1460	121.087	30.442	-16.502	1.00	94.66	A16S
ATOM	30785	O3*	A	A1460	122.291	30.567	-15.774	1.00	94.66	A16S
ATOM	30786	P	G	A1461	123.519	31.363	-16.426	1.00	102.24	A16S
ATOM	30787	O1P	G	A1461	124.669	31.249	-15.481	1.00	93.79	A16S
ATOM	30788	O2P	G	A1461	122.998	32.708	-16.805	1.00	93.79	A16S
ATOM	30789	O5*	G	A1461	123.855	30.546	-17.756	1.00	102.24	A16S
ATOM	30790	C5*	G	A1461	124.318	29.186	-17.688	1.00	102.24	A16S
ATOM	30791	C4*	G	A1461	124.225	28.529	-19.046	1.00	102.24	A16S
ATOM	30792	O4*	G	A1461	122.837	28.499	-19.467	1.00	102.24	A16S
ATOM	30793	C1*	G	A1461	122.755	28.675	-20.871	1.00	102.24	A16S



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ATOM	30794	N9	G	A1461	122.072	29.935	-21.132	1.00	93.79	A16S
ATOM	30795	C4	G	A1461	121.578	30.343	-22.342	1.00	93.79	A16S
ATOM	30796	N3	G	A1461	121.583	29.620	-23.481	1.00	93.79	A16S
ATOM	30797	C2	G	A1461	121.068	30.296	-24.496	1.00	93.79	A16S
ATOM	30798	N2	G	A1461	120.977	29.721	-25.703	1.00	93.79	A16S
ATOM	30799	N1	G	A1461	120.601	31.582	-24.402	1.00	93.79	A16S
ATOM	30800	C6	G	A1461	120.597	32.349	-23.240	1.00	93.79	A16S
ATOM	30801	O6	G	A1461	120.175	33.509	-23.269	1.00	93.79	A16S
ATOM	30802	C5	G	A1461	121.126	31.630	-22.138	1.00	93.79	A16S
ATOM	30803	N7	G	A1461	121.294	32.009	-20.811	1.00	93.79	A16S
ATOM	30804	C8	G	A1461	121.847	30.970	-20.249	1.00	93.79	A16S
ATOM	30805	C2*	G	A1461	124.182	28.756	-21.413	1.00	102.24	A16S
ATOM	30806	O2*	G	A1461	124.600	27.494	-21.884	1.00	102.24	A16S
ATOM	30807	C3*	G	A1461	124.950	29.231	-20.185	1.00	102.24	A16S
ATOM	30808	O3*	G	A1461	126.335	28.898	-20.246	1.00	102.24	A16S
ATOM	30809	P	G	A1462	127.375	29.946	-20.891	1.00	101.12	A16S
ATOM	30810	O1P	G	A1462	128.743	29.365	-20.751	1.00	94.12	A16S
ATOM	30811	O2P	G	A1462	127.096	31.305	-20.341	1.00	94.12	A16S
ATOM	30812	O5*	G	A1462	126.981	29.940	-22.434	1.00	101.12	A16S
ATOM	30813	C5*	G	A1462	127.072	28.731	-23.197	1.00	101.12	A16S
ATOM	30814	C4*	G	A1462	126.732	28.995	-24.639	1.00	101.12	A16S
ATOM	30815	O4*	G	A1462	125.311	29.246	-24.784	1.00	101.12	A16S
ATOM	30816	C1*	G	A1462	125.099	30.178	-25.830	1.00	101.12	A16S
ATOM	30817	N9	G	A1462	124.432	31.348	-25.275	1.00	94.12	A16S
ATOM	30818	C4	G	A1462	123.816	32.332	-25.997	1.00	94.12	A16S
ATOM	30819	N3	G	A1462	123.696	32.363	-27.335	1.00	94.12	A16S
ATOM	30820	C2	G	A1462	123.072	33.449	-27.746	1.00	94.12	A16S
ATOM	30821	N2	G	A1462	122.861	33.634	-29.057	1.00	94.12	A16S
ATOM	30822	N1	G	A1462	122.608	34.433	-26.908	1.00	94.12	A16S
ATOM	30823	C6	G	A1462	122.729	34.424	-25.526	1.00	94.12	A16S
ATOM	30824	O6	G	A1462	122.293	35.369	-24.866	1.00	94.12	A16S
ATOM	30825	C5	G	A1462	123.387	33.256	-25.070	1.00	94.12	A16S
ATOM	30826	N7	G	A1462	123.708	32.846	-23.783	1.00	94.12	A16S
ATOM	30827	C8	G	A1462	124.321	31.708	-23.951	1.00	94.12	A16S
ATOM	30828	C2*	G	A1462	126.466	30.552	-26.410	1.00	101.12	A16S
ATOM	30829	O2*	G	A1462	126.716	29.801	-27.578	1.00	101.12	A16S
ATOM	30830	C3*	G	A1462	127.400	30.205	-25.259	1.00	101.12	A16S
ATOM	30831	O3*	G	A1462	128.706	29.903	-25.695	1.00	101.12	A16S
ATOM	30832	P	C	A1463	129.771	31.086	-25.858	1.00	99.84	A16S
ATOM	30833	O1P	C	A1463	131.040	30.443	-26.298	1.00	95.18	A16S
ATOM	30834	O2P	C	A1463	129.758	31.910	-24.626	1.00	95.18	A16S
ATOM	30835	O5*	C	A1463	129.190	31.935	-27.074	1.00	99.84	A16S
ATOM	30836	C5*	C	A1463	129.176	31.359	-28.386	1.00	99.84	A16S
ATOM	30837	C4*	C	A1463	128.593	32.309	-29.401	1.00	99.84	A16S
ATOM	30838	O4*	C	A1463	127.172	32.486	-29.162	1.00	99.84	A16S
ATOM	30839	C1*	C	A1463	126.785	33.790	-29.563	1.00	99.84	A16S
ATOM	30840	N1	C	A1463	126.396	34.551	-28.365	1.00	95.18	A16S
ATOM	30841	C6	C	A1463	126.960	34.275	-27.150	1.00	95.18	A16S
ATOM	30842	C2	C	A1463	125.467	35.596	-28.494	1.00	95.18	A16S
ATOM	30843	O2	C	A1463	124.938	35.808	-29.605	1.00	95.18	A16S
ATOM	30844	N3	C	A1463	125.174	36.349	-27.407	1.00	95.18	A16S
ATOM	30845	C4	C	A1463	125.766	36.093	-26.238	1.00	95.18	A16S
ATOM	30846	N4	C	A1463	125.487	36.886	-25.208	1.00	95.18	A16S
ATOM	30847	C5	C	A1463	126.682	35.017	-26.076	1.00	95.18	A16S
ATOM	30848	C2*	C	A1463	128.017	34.457	-30.173	1.00	99.84	A16S
ATOM	30849	O2*	C	A1463	128.039	34.251	-31.574	1.00	99.84	A16S
ATOM	30850	C3*	C	A1463	129.136	33.726	-29.448	1.00	99.84	A16S
ATOM	30851	O3*	C	A1463	130.383	33.865	-30.101	1.00	99.84	A16S
ATOM	30852	P	G	A1464	131.385	35.035	-29.628	1.00	101.76	A16S
ATOM	30853	O1P	G	A1464	132.643	34.895	-30.412	1.00	90.86	A16S
ATOM	30854	O2P	G	A1464	131.448	35.035	-28.138	1.00	90.86	A16S
ATOM	30855	O5*	G	A1464	130.645	36.378	-30.077	1.00	101.76	A16S
ATOM	30856	C5*	G	A1464	130.284	36.595	-31.453	1.00	101.76	A16S
ATOM	30857	C4*	G	A1464	129.571	37.916	-31.618	1.00	101.76	A16S
ATOM	30858	O4*	G	A1464	128.286	37.884	-30.946	1.00	101.76	A16S
ATOM	30859	C1*	G	A1464	127.964	39.182	-30.470	1.00	101.76	A16S
ATOM	30860	N9	G	A1464	127.901	39.142	-29.016	1.00	90.86	A16S
ATOM	30861	C4	G	A1464	127.271	40.053	-28.207	1.00	90.86	A16S
ATOM	30862	N3	G	A1464	126.567	41.123	-28.623	1.00	90.86	A16S
ATOM	30863	C2	G	A1464	126.099	41.833	-27.610	1.00	90.86	A16S
ATOM	30864	N2	G	A1464	125.377	42.938	-27.849	1.00	90.86	A16S
ATOM	30865	N1	G	A1464	126.305	41.515	-26.292	1.00	90.86	A16S
ATOM	30866	C6	G	A1464	127.034	40.422	-25.839	1.00	90.86	A16S
ATOM	30867	O6	G	A1464	127.182	40.241	-24.623	1.00	90.86	A16S
ATOM	30868	C5	G	A1464	127.537	39.647	-26.921	1.00	90.86	A16S
ATOM	30869	N7	G	A1464	128.302	38.488	-26.919	1.00	90.86	A16S
ATOM	30870	C8	G	A1464	128.487	38.223	-28.182	1.00	90.86	A16S



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ATOM	30871	C2*	G	A1464	129.095	40.115	-30.888	1.00101.76	A16S
ATOM	30872	O2*	G	A1464	128.778	40.765	-32.102	1.00101.76	A16S
ATOM	30873	C3*	G	A1464	130.251	39.140	-31.034	1.00101.76	A16S
ATOM	30874	O3*	G	A1464	131.252	39.667	-31.865	1.00101.76	A16S
ATOM	30875	P	C	A1465	132.272	40.752	-31.269	1.00 86.69	A16S
ATOM	30876	O1P	C	A1465	133.244	41.014	-32.353	1.00 93.19	A16S
ATOM	30877	O2P	C	A1465	132.757	40.297	-29.940	1.00 93.19	A16S
ATOM	30878	O5*	C	A1465	131.389	42.072	-31.100	1.00 86.69	A16S
ATOM	30879	C5*	C	A1465	130.985	42.834	-32.258	1.00 86.69	A16S
ATOM	30880	C4*	C	A1465	130.405	44.166	-31.847	1.00 86.69	A16S
ATOM	30881	O4*	C	A1465	129.192	43.944	-31.086	1.00 86.69	A16S
ATOM	30882	C1*	C	A1465	129.064	44.944	-30.086	1.00 86.69	A16S
ATOM	30883	N1	C	A1465	129.037	44.285	-28.759	1.00 93.19	A16S
ATOM	30884	C6	C	A1465	129.715	43.115	-28.545	1.00 93.19	A16S
ATOM	30885	C2	C	A1465	128.314	44.889	-27.705	1.00 93.19	A16S
ATOM	30886	O2	C	A1465	127.665	45.936	-27.925	1.00 93.19	A16S
ATOM	30887	N3	C	A1465	128.337	44.310	-26.475	1.00 93.19	A16S
ATOM	30888	C4	C	A1465	129.024	43.179	-26.279	1.00 93.19	A16S
ATOM	30889	N4	C	A1465	129.041	42.660	-25.046	1.00 93.19	A16S
ATOM	30890	C5	C	A1465	129.733	42.534	-27.337	1.00 93.19	A16S
ATOM	30891	C2*	C	A1465	130.240	45.913	-30.246	1.00 86.69	A16S
ATOM	30892	O2*	C	A1465	129.863	47.027	-31.036	1.00 86.69	A16S
ATOM	30893	C3*	C	A1465	131.269	45.036	-30.948	1.00 86.69	A16S
ATOM	30894	O3*	C	A1465	132.191	45.822	-31.684	1.00 86.69	A16S
ATOM	30895	P	C	A1466	133.518	46.372	-30.962	1.00 87.40	A16S
ATOM	30896	O1P	C	A1466	134.180	47.308	-31.904	1.00103.11	A16S
ATOM	30897	O2P	C	A1466	134.271	45.211	-30.427	1.00103.11	A16S
ATOM	30898	O5*	C	A1466	132.978	47.250	-29.749	1.00 87.40	A16S
ATOM	30899	C5*	C	A1466	132.364	48.528	-29.989	1.00 87.40	A16S
ATOM	30900	C4*	C	A1466	131.831	49.106	-28.701	1.00 87.40	A16S
ATOM	30901	O4*	C	A1466	130.849	48.200	-28.134	1.00 87.40	A16S
ATOM	30902	C1*	C	A1466	130.919	48.247	-26.720	1.00 87.40	A16S
ATOM	30903	N1	C	A1466	131.247	46.902	-26.204	1.00103.11	A16S
ATOM	30904	C6	C	A1466	131.908	45.984	-26.974	1.00103.11	A16S
ATOM	30905	C2	C	A1466	130.881	46.583	-24.889	1.00103.11	A16S
ATOM	30906	O2	C	A1466	130.273	47.429	-24.215	1.00103.11	A16S
ATOM	30907	N3	C	A1466	131.201	45.365	-24.387	1.00103.11	A16S
ATOM	30908	C4	C	A1466	131.859	44.484	-25.143	1.00103.11	A16S
ATOM	30909	N4	C	A1466	132.166	43.303	-24.603	1.00103.11	A16S
ATOM	30910	C5	C	A1466	132.234	44.777	-26.487	1.00103.11	A16S
ATOM	30911	C2*	C	A1466	131.979	49.281	-26.340	1.00 87.40	A16S
ATOM	30912	O2*	C	A1466	131.350	50.521	-26.087	1.00 87.40	A16S
ATOM	30913	C3*	C	A1466	132.849	49.310	-27.590	1.00 87.40	A16S
ATOM	30914	O3*	C	A1466	133.540	50.547	-27.723	1.00 87.40	A16S
ATOM	30915	P	G	A1467	135.111	50.629	-27.364	1.00 89.21	A16S
ATOM	30916	O1P	G	A1467	135.473	52.071	-27.393	1.00 93.95	A16S
ATOM	30917	O2P	G	A1467	135.852	49.661	-28.215	1.00 93.95	A16S
ATOM	30918	O5*	G	A1467	135.205	50.132	-25.854	1.00 89.21	A16S
ATOM	30919	C5*	G	A1467	134.495	50.827	-24.810	1.00 89.21	A16S
ATOM	30920	C4*	G	A1467	134.520	50.029	-23.532	1.00 89.21	A16S
ATOM	30921	O4*	G	A1467	133.817	48.776	-23.724	1.00 89.21	A16S
ATOM	30922	C1*	G	A1467	134.453	47.751	-22.977	1.00 89.21	A16S
ATOM	30923	N9	G	A1467	134.927	46.728	-23.906	1.00 93.95	A16S
ATOM	30924	C4	G	A1467	135.083	45.387	-23.642	1.00 93.95	A16S
ATOM	30925	N3	G	A1467	134.810	44.771	-22.475	1.00 93.95	A16S
ATOM	30926	C2	G	A1467	135.077	43.478	-22.527	1.00 93.95	A16S
ATOM	30927	N2	G	A1467	134.858	42.712	-21.457	1.00 93.95	A16S
ATOM	30928	N1	G	A1467	135.577	42.841	-23.632	1.00 93.95	A16S
ATOM	30929	C6	G	A1467	135.868	43.453	-24.842	1.00 93.95	A16S
ATOM	30930	O6	G	A1467	136.323	42.782	-25.777	1.00 93.95	A16S
ATOM	30931	C5	G	A1467	135.579	44.841	-24.805	1.00 93.95	A16S
ATOM	30932	N7	G	A1467	135.720	45.813	-25.783	1.00 93.95	A16S
ATOM	30933	C8	G	A1467	135.321	46.912	-25.207	1.00 93.95	A16S
ATOM	30934	C2*	G	A1467	135.597	48.398	-22.197	1.00 89.21	A16S
ATOM	30935	O2*	G	A1467	135.136	48.763	-20.910	1.00 89.21	A16S
ATOM	30936	C3*	G	A1467	135.898	49.614	-23.058	1.00 89.21	A16S
ATOM	30937	O3*	G	A1467	136.532	50.647	-22.337	1.00 89.21	A16S
ATOM	30938	P	A	A1468	138.076	50.976	-22.627	1.00 77.71	A16S
ATOM	30939	O1P	A	A1468	138.115	52.391	-23.085	1.00 97.75	A16S
ATOM	30940	O2P	A	A1468	138.668	49.909	-23.475	1.00 97.75	A16S
ATOM	30941	O5*	A	A1468	138.760	50.867	-21.194	1.00 77.71	A16S
ATOM	30942	C5*	A	A1468	138.310	51.692	-20.102	1.00 77.71	A16S
ATOM	30943	C4*	A	A1468	138.623	51.039	-18.779	1.00 77.71	A16S
ATOM	30944	O4*	A	A1468	137.909	49.784	-18.697	1.00 77.71	A16S
ATOM	30945	C1*	A	A1468	138.675	48.848	-17.969	1.00 77.71	A16S
ATOM	30946	N9	A	A1468	138.976	47.720	-18.839	1.00 97.75	A16S
ATOM	30947	C4	A	A1468	139.361	46.480	-18.405	1.00 97.75	A16S



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ATOM	30948	N3	A	A1468	139.534	46.086	-17.132	1.00	97.75	A16S
ATOM	30949	C2	A	A1468	139.901	44.809	-17.088	1.00	97.75	A16S
ATOM	30950	N1	A	A1468	140.096	43.946	-18.098	1.00	97.75	A16S
ATOM	30951	C6	A	A1468	139.912	44.379	-19.364	1.00	97.75	A16S
ATOM	30952	N6	A	A1468	140.103	43.519	-20.366	1.00	97.75	A16S
ATOM	30953	C5	A	A1468	139.526	45.717	-19.545	1.00	97.75	A16S
ATOM	30954	N7	A	A1468	139.263	46.470	-20.681	1.00	97.75	A16S
ATOM	30955	C8	A	A1468	138.943	47.649	-20.208	1.00	97.75	A16S
ATOM	30956	C2*	A	A1468	139.945	49.543	-17.501	1.00	77.71	A16S
ATOM	30957	O2*	A	A1468	139.720	49.977	-16.174	1.00	77.71	A16S
ATOM	30958	C3*	A	A1468	140.074	50.665	-18.528	1.00	77.71	A16S
ATOM	30959	O3*	A	A1468	140.837	51.767	-18.051	1.00	77.71	A16S
ATOM	30960	P	G	A1469	142.279	52.075	-18.697	1.00	89.79	A16S
ATOM	30961	O1P	G	A1469	142.928	53.107	-17.850	1.00	92.03	A16S
ATOM	30962	O2P	G	A1469	142.098	52.322	-20.145	1.00	92.03	A16S
ATOM	30963	O5*	G	A1469	143.092	50.716	-18.530	1.00	89.79	A16S
ATOM	30964	C5*	G	A1469	143.472	50.247	-17.224	1.00	89.79	A16S
ATOM	30965	C4*	G	A1469	143.818	48.774	-17.265	1.00	89.79	A16S
ATOM	30966	O4*	G	A1469	142.700	48.043	-17.832	1.00	89.79	A16S
ATOM	30967	C1*	G	A1469	143.179	46.955	-18.602	1.00	89.79	A16S
ATOM	30968	N9	G	A1469	142.846	47.205	-19.998	1.00	92.03	A16S
ATOM	30969	C4	G	A1469	142.995	46.316	-21.028	1.00	92.03	A16S
ATOM	30970	N3	G	A1469	143.445	45.049	-20.916	1.00	92.03	A16S
ATOM	30971	C2	G	A1469	143.505	44.442	-22.086	1.00	92.03	A16S
ATOM	30972	N2	G	A1469	143.937	43.170	-22.152	1.00	92.03	A16S
ATOM	30973	N1	G	A1469	143.151	45.038	-23.274	1.00	92.03	A16S
ATOM	30974	C6	G	A1469	142.692	46.345	-23.409	1.00	92.03	A16S
ATOM	30975	O6	G	A1469	142.419	46.789	-24.525	1.00	92.03	A16S
ATOM	30976	C5	G	A1469	142.616	47.000	-22.161	1.00	92.03	A16S
ATOM	30977	N7	G	A1469	142.213	48.289	-21.845	1.00	92.03	A16S
ATOM	30978	C8	G	A1469	142.361	48.365	-20.551	1.00	92.03	A16S
ATOM	30979	C2*	G	A1469	144.694	46.913	-18.437	1.00	89.79	A16S
ATOM	30980	O2*	G	A1469	145.022	46.050	-17.366	1.00	89.79	A16S
ATOM	30981	C3*	G	A1469	144.997	48.371	-18.137	1.00	89.79	A16S
ATOM	30982	O3*	G	A1469	146.246	48.540	-17.492	1.00	89.79	A16S
ATOM	30983	P	G	A1470	147.552	48.838	-18.377	1.00	105.68	A16S
ATOM	30984	O1P	G	A1470	148.637	49.194	-17.427	1.00	86.25	A16S
ATOM	30985	O2P	G	A1470	147.202	49.771	-19.470	1.00	86.25	A16S
ATOM	30986	O5*	G	A1470	147.876	47.431	-19.037	1.00	105.68	A16S
ATOM	30987	C5*	G	A1470	148.199	46.310	-18.211	1.00	105.68	A16S
ATOM	30988	C4*	G	A1470	148.375	45.077	-19.053	1.00	105.68	A16S
ATOM	30989	O4*	G	A1470	147.121	44.761	-19.716	1.00	105.68	A16S
ATOM	30990	C1*	G	A1470	147.387	44.155	-20.970	1.00	105.68	A16S
ATOM	30991	N9	G	A1470	146.845	44.998	-22.031	1.00	86.25	A16S
ATOM	30992	C4	G	A1470	146.656	44.615	-23.334	1.00	86.25	A16S
ATOM	30993	N3	G	A1470	146.915	43.390	-23.843	1.00	86.25	A16S
ATOM	30994	C2	G	A1470	146.654	43.327	-25.139	1.00	86.25	A16S
ATOM	30995	N2	G	A1470	146.874	42.180	-25.808	1.00	86.25	A16S
ATOM	30996	N1	G	A1470	146.165	44.382	-25.875	1.00	86.25	A16S
ATOM	30997	C6	G	A1470	145.890	45.652	-25.370	1.00	86.25	A16S
ATOM	30998	O6	G	A1470	145.456	46.531	-26.120	1.00	86.25	A16S
ATOM	30999	C5	G	A1470	146.175	45.734	-23.980	1.00	86.25	A16S
ATOM	31000	N7	G	A1470	146.053	46.798	-23.097	1.00	86.25	A16S
ATOM	31001	C8	G	A1470	146.456	46.315	-21.952	1.00	86.25	A16S
ATOM	31002	C2*	G	A1470	148.903	44.054	-21.114	1.00	105.68	A16S
ATOM	31003	O2*	G	A1470	149.350	42.785	-20.677	1.00	105.68	A16S
ATOM	31004	C3*	G	A1470	149.367	45.174	-20.197	1.00	105.68	A16S
ATOM	31005	O3*	G	A1470	150.719	45.016	-19.809	1.00	105.68	A16S
ATOM	31006	P	G	A1471	151.879	45.565	-20.780	1.00	114.60	A16S
ATOM	31007	O1P	G	A1471	153.156	45.299	-20.076	1.00	102.88	A16S
ATOM	31008	O2P	G	A1471	151.562	46.945	-21.227	1.00	102.88	A16S
ATOM	31009	O5*	G	A1471	151.773	44.633	-22.067	1.00	114.60	A16S
ATOM	31010	C5*	G	A1471	152.021	43.220	-21.976	1.00	114.60	A16S
ATOM	31011	C4*	G	A1471	152.021	42.604	-23.350	1.00	114.60	A16S
ATOM	31012	O4*	G	A1471	150.684	42.678	-23.903	1.00	114.60	A16S
ATOM	31013	C1*	G	A1471	150.752	42.980	-25.285	1.00	114.60	A16S
ATOM	31014	N9	G	A1471	150.140	44.290	-25.486	1.00	102.88	A16S
ATOM	31015	C4	G	A1471	149.680	44.795	-26.675	1.00	102.88	A16S
ATOM	31016	N3	G	A1471	149.707	44.159	-27.866	1.00	102.88	A16S
ATOM	31017	C2	G	A1471	149.202	44.904	-28.837	1.00	102.88	A16S
ATOM	31018	N2	G	A1471	149.158	44.420	-30.091	1.00	102.88	A16S
ATOM	31019	N1	G	A1471	148.703	46.179	-28.650	1.00	102.88	A16S
ATOM	31020	C6	G	A1471	148.665	46.856	-27.431	1.00	102.88	A16S
ATOM	31021	O6	G	A1471	148.199	48.007	-27.375	1.00	102.88	A16S
ATOM	31022	C5	G	A1471	149.209	46.062	-26.378	1.00	102.88	A16S
ATOM	31023	N7	G	A1471	149.366	46.343	-25.027	1.00	102.88	A16S
ATOM	31024	C8	G	A1471	149.919	45.266	-24.537	1.00	102.88	A16S



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ATOM	31025	C2*	G	A1471	152.228	42.978	-25.689	1.00114.60	A16S
ATOM	31026	O2*	G	A1471	152.587	41.709	-26.203	1.00114.60	A16S
ATOM	31027	C3*	G	A1471	152.901	43.318	-24.364	1.00114.60	A16S
ATOM	31028	O3*	G	A1471	154.264	42.909	-24.282	1.00114.60	A16S
ATOM	31029	P	U	A1472	155.429	43.942	-24.686	1.00151.33	A16S
ATOM	31030	O1P	U	A1472	156.713	43.320	-24.277	1.00122.18	A16S
ATOM	31031	O2P	U	A1472	155.087	45.300	-24.193	1.00122.18	A16S
ATOM	31032	O5*	U	A1472	155.351	43.965	-26.275	1.00151.33	A16S
ATOM	31033	C5*	U	A1472	155.640	42.783	-27.035	1.00151.33	A16S
ATOM	31034	C4*	U	A1472	155.514	43.067	-28.508	1.00151.33	A16S
ATOM	31035	O4*	U	A1472	154.114	43.248	-28.847	1.00151.33	A16S
ATOM	31036	C1*	U	A1472	153.991	44.234	-29.864	1.00151.33	A16S
ATOM	31037	N1	U	A1472	153.228	45.370	-29.320	1.00122.18	A16S
ATOM	31038	C6	U	A1472	153.379	45.759	-28.002	1.00122.18	A16S
ATOM	31039	C2	U	A1472	152.357	46.052	-30.170	1.00122.18	A16S
ATOM	31040	O2	U	A1472	152.179	45.745	-31.342	1.00122.18	A16S
ATOM	31041	N3	U	A1472	151.697	47.110	-29.591	1.00122.18	A16S
ATOM	31042	C4	U	A1472	151.806	47.549	-28.280	1.00122.18	A16S
ATOM	31043	O4	U	A1472	151.116	48.500	-27.896	1.00122.18	A16S
ATOM	31044	C5	U	A1472	152.719	46.794	-27.471	1.00122.18	A16S
ATOM	31045	C2*	U	A1472	155.405	44.659	-30.265	1.00151.33	A16S
ATOM	31046	O2*	U	A1472	155.832	43.914	-31.392	1.00151.33	A16S
ATOM	31047	C3*	U	A1472	156.189	44.341	-28.996	1.00151.33	A16S
ATOM	31048	O3*	U	A1472	157.592	44.207	-29.210	1.00151.33	A16S
ATOM	31049	P	A	A1473	158.523	45.525	-29.215	1.00187.13	A16S
ATOM	31050	O1P	A	A1473	159.921	45.066	-29.412	1.00144.25	A16S
ATOM	31051	O2P	A	A1473	158.194	46.380	-28.043	1.00144.25	A16S
ATOM	31052	O5*	A	A1473	158.059	46.296	-30.530	1.00187.13	A16S
ATOM	31053	C5*	A	A1473	158.174	45.670	-31.822	1.00187.13	A16S
ATOM	31054	C4*	A	A1473	157.606	46.560	-32.901	1.00187.13	A16S
ATOM	31055	O4*	A	A1473	156.155	46.572	-32.849	1.00187.13	A16S
ATOM	31056	C1*	A	A1473	155.676	47.847	-33.252	1.00187.13	A16S
ATOM	31057	N9	A	A1473	154.949	48.452	-32.133	1.00144.25	A16S
ATOM	31058	C4	A	A1473	154.041	49.482	-32.227	1.00144.25	A16S
ATOM	31059	N3	A	A1473	153.629	50.109	-33.344	1.00144.25	A16S
ATOM	31060	C2	A	A1473	152.755	51.069	-33.049	1.00144.25	A16S
ATOM	31061	N1	A	A1473	152.282	51.447	-31.853	1.00144.25	A16S
ATOM	31062	C6	A	A1473	152.719	50.799	-30.750	1.00144.25	A16S
ATOM	31063	N6	A	A1473	152.253	51.184	-29.560	1.00144.25	A16S
ATOM	31064	C5	A	A1473	153.646	49.755	-30.929	1.00144.25	A16S
ATOM	31065	N7	A	A1473	154.281	48.905	-30.033	1.00144.25	A16S
ATOM	31066	C8	A	A1473	155.036	48.151	-30.794	1.00144.25	A16S
ATOM	31067	C2*	A	A1473	156.889	48.697	-33.633	1.00187.13	A16S
ATOM	31068	O2*	A	A1473	157.104	48.637	-35.030	1.00187.13	A16S
ATOM	31069	C3*	A	A1473	157.992	48.024	-32.827	1.00187.13	A16S
ATOM	31070	O3*	A	A1473	159.287	48.282	-33.331	1.00187.13	A16S
ATOM	31071	P	G	A1474	160.087	49.566	-32.799	1.00198.84	A16S
ATOM	31072	O1P	G	A1474	161.454	49.484	-33.372	1.00195.63	A16S
ATOM	31073	O2P	G	A1474	159.913	49.677	-31.326	1.00195.63	A16S
ATOM	31074	O5*	G	A1474	159.314	50.779	-33.482	1.00198.84	A16S
ATOM	31075	C5*	G	A1474	159.199	50.854	-34.917	1.00198.84	A16S
ATOM	31076	C4*	G	A1474	158.323	52.017	-35.325	1.00198.84	A16S
ATOM	31077	O4*	G	A1474	156.938	51.746	-34.979	1.00198.84	A16S
ATOM	31078	C1*	G	A1474	156.289	52.959	-34.628	1.00198.84	A16S
ATOM	31079	N9	G	A1474	155.858	52.873	-33.234	1.00195.63	A16S
ATOM	31080	C4	G	A1474	154.910	53.664	-32.625	1.00195.63	A16S
ATOM	31081	N3	G	A1474	154.204	54.651	-33.216	1.00195.63	A16S
ATOM	31082	C2	G	A1474	153.378	55.241	-32.371	1.00195.63	A16S
ATOM	31083	N2	G	A1474	152.606	56.252	-32.795	1.00195.63	A16S
ATOM	31084	N1	G	A1474	153.248	54.887	-31.050	1.00195.63	A16S
ATOM	31085	C6	G	A1474	153.962	53.873	-30.419	1.00195.63	A16S
ATOM	31086	O6	G	A1474	153.767	53.636	-29.219	1.00195.63	A16S
ATOM	31087	C5	G	A1474	154.861	53.235	-31.315	1.00195.63	A16S
ATOM	31088	N7	G	A1474	155.755	52.194	-31.103	1.00195.63	A16S
ATOM	31089	C8	G	A1474	156.320	52.011	-32.266	1.00195.63	A16S
ATOM	31090	C2*	G	A1474	157.296	54.095	-34.822	1.00198.84	A16S
ATOM	31091	O2*	G	A1474	157.118	54.677	-36.102	1.00198.84	A16S
ATOM	31092	C3*	G	A1474	158.622	53.358	-34.669	1.00198.84	A16S
ATOM	31093	O3*	G	A1474	159.721	54.045	-35.260	1.00198.84	A16S
ATOM	31094	P	G	A1475	160.600	55.054	-34.362	1.00197.37	A16S
ATOM	31095	O1P	G	A1475	161.757	55.476	-35.193	1.00198.84	A16S
ATOM	31096	O2P	G	A1475	160.838	54.449	-33.020	1.00198.84	A16S
ATOM	31097	O5*	G	A1475	159.640	56.308	-34.157	1.00197.37	A16S
ATOM	31098	C5*	G	A1475	159.048	56.981	-35.290	1.00197.37	A16S
ATOM	31099	C4*	G	A1475	158.034	58.002	-34.824	1.00197.37	A16S
ATOM	31100	O4*	G	A1475	156.854	57.338	-34.300	1.00197.37	A16S
ATOM	31101	C1*	G	A1475	156.344	58.067	-33.192	1.00197.37	A16S



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ATOM	31102	N9	G	A1475	156.364	57.199	-32.013	1.00198.84	A16S
ATOM	31103	C4	G	A1475	155.569	57.328	-30.898	1.00198.84	A16S
ATOM	31104	N3	G	A1475	154.631	58.279	-30.703	1.00198.84	A16S
ATOM	31105	C2	G	A1475	154.036	58.153	-29.531	1.00198.84	A16S
ATOM	31106	N2	G	A1475	153.085	59.029	-29.176	1.00198.84	A16S
ATOM	31107	N1	G	A1475	154.333	57.164	-28.618	1.00198.84	A16S
ATOM	31108	C6	G	A1475	155.296	56.173	-28.794	1.00198.84	A16S
ATOM	31109	O6	G	A1475	155.484	55.328	-27.904	1.00198.84	A16S
ATOM	31110	C5	G	A1475	155.949	56.302	-30.053	1.00198.84	A16S
ATOM	31111	N7	G	A1475	156.958	55.539	-30.627	1.00198.84	A16S
ATOM	31112	C8	G	A1475	157.172	56.105	-31.786	1.00198.84	A16S
ATOM	31113	C2*	G	A1475	157.205	59.321	-33.020	1.00197.37	A16S
ATOM	31114	O2*	G	A1475	156.586	60.433	-33.639	1.00197.37	A16S
ATOM	31115	C3*	G	A1475	158.505	58.891	-33.688	1.00197.37	A16S
ATOM	31116	O3*	G	A1475	159.294	59.969	-34.154	1.00197.37	A16S
ATOM	31117	P	G	A1476	160.378	60.627	-33.172	1.00184.62	A16S
ATOM	31118	O1P	G	A1476	161.260	61.486	-34.006	1.00198.84	A16S
ATOM	31119	O2P	G	A1476	160.976	59.550	-32.335	1.00198.84	A16S
ATOM	31120	O5*	G	A1476	159.485	61.558	-32.240	1.00184.62	A16S
ATOM	31121	C5*	G	A1476	158.662	62.581	-32.816	1.00184.62	A16S
ATOM	31122	C4*	G	A1476	157.733	63.146	-31.780	1.00184.62	A16S
ATOM	31123	O4*	G	A1476	156.684	62.193	-31.481	1.00184.62	A16S
ATOM	31124	C1*	G	A1476	156.305	62.324	-30.118	1.00184.62	A16S
ATOM	31125	N9	G	A1476	156.516	61.052	-29.436	1.00198.84	A16S
ATOM	31126	C4	G	A1476	156.043	60.716	-28.186	1.00198.84	A16S
ATOM	31127	N3	G	A1476	155.289	61.501	-27.384	1.00198.84	A16S
ATOM	31128	C2	G	A1476	154.999	60.905	-26.240	1.00198.84	A16S
ATOM	31129	N2	G	A1476	154.260	61.543	-25.324	1.00198.84	A16S
ATOM	31130	N1	G	A1476	155.412	59.639	-25.908	1.00198.84	A16S
ATOM	31131	C6	G	A1476	156.186	58.810	-26.715	1.00198.84	A16S
ATOM	31132	O6	G	A1476	156.499	57.677	-26.318	1.00198.84	A16S
ATOM	31133	C5	G	A1476	156.510	59.441	-27.949	1.00198.84	A16S
ATOM	31134	N7	G	A1476	157.256	58.982	-29.027	1.00198.84	A16S
ATOM	31135	C8	G	A1476	157.229	59.967	-29.884	1.00198.84	A16S
ATOM	31136	C2*	G	A1476	157.171	63.417	-29.491	1.00184.62	A16S
ATOM	31137	O2*	G	A1476	156.459	64.638	-29.446	1.00184.62	A16S
ATOM	31138	C3*	G	A1476	158.367	63.435	-30.432	1.00184.62	A16S
ATOM	31139	O3*	G	A1476	159.070	64.664	-30.399	1.00184.62	A16S
ATOM	31140	P	C	A1477	160.287	64.844	-29.365	1.00179.61	A16S
ATOM	31141	O1P	C	A1477	161.064	66.029	-29.813	1.00194.60	A16S
ATOM	31142	O2P	C	A1477	160.970	63.523	-29.239	1.00194.60	A16S
ATOM	31143	O5*	C	A1477	159.575	65.178	-27.970	1.00179.61	A16S
ATOM	31144	C5*	C	A1477	158.674	66.308	-27.837	1.00179.61	A16S
ATOM	31145	C4*	C	A1477	157.845	66.199	-26.569	1.00179.61	A16S
ATOM	31146	O4*	C	A1477	157.058	64.980	-26.603	1.00179.61	A16S
ATOM	31147	C1*	C	A1477	156.930	64.456	-25.290	1.00179.61	A16S
ATOM	31148	N1	C	A1477	157.523	63.103	-25.255	1.00194.60	A16S
ATOM	31149	C6	C	A1477	158.421	62.702	-26.209	1.00194.60	A16S
ATOM	31150	C2	C	A1477	157.160	62.229	-24.216	1.00194.60	A16S
ATOM	31151	O2	C	A1477	156.336	62.608	-23.365	1.00194.60	A16S
ATOM	31152	N3	C	A1477	157.717	60.997	-24.166	1.00194.60	A16S
ATOM	31153	C4	C	A1477	158.599	60.623	-25.097	1.00194.60	A16S
ATOM	31154	N4	C	A1477	159.130	59.401	-25.000	1.00194.60	A16S
ATOM	31155	C5	C	A1477	158.979	61.485	-26.167	1.00194.60	A16S
ATOM	31156	C2*	C	A1477	157.628	65.418	-24.327	1.00179.61	A16S
ATOM	31157	O2*	C	A1477	156.674	66.277	-23.732	1.00179.61	A16S
ATOM	31158	C3*	C	A1477	158.608	66.132	-25.253	1.00179.61	A16S
ATOM	31159	O3*	C	A1477	158.937	67.429	-24.764	1.00179.61	A16S
ATOM	31160	P	C	A1478	160.342	67.670	-24.014	1.00171.22	A16S
ATOM	31161	O1P	C	A1478	160.652	69.116	-24.152	1.00162.49	A16S
ATOM	31162	O2P	C	A1478	161.320	66.659	-24.514	1.00162.49	A16S
ATOM	31163	O5*	C	A1478	160.037	67.382	-22.472	1.00171.22	A16S
ATOM	31164	C5*	C	A1478	159.329	68.342	-21.658	1.00171.22	A16S
ATOM	31165	C4*	C	A1478	158.894	67.710	-20.355	1.00171.22	A16S
ATOM	31166	O4*	C	A1478	158.177	66.482	-20.654	1.00171.22	A16S
ATOM	31167	C1*	C	A1478	158.391	65.532	-19.615	1.00171.22	A16S
ATOM	31168	N1	C	A1478	159.008	64.309	-20.177	1.00162.49	A16S
ATOM	31169	C6	C	A1478	159.266	64.196	-21.515	1.00162.49	A16S
ATOM	31170	C2	C	A1478	159.350	63.260	-19.301	1.00162.49	A16S
ATOM	31171	O2	C	A1478	159.075	63.363	-18.093	1.00162.49	A16S
ATOM	31172	N3	C	A1478	159.968	62.165	-19.794	1.00162.49	A16S
ATOM	31173	C4	C	A1478	160.238	62.080	-21.097	1.00162.49	A16S
ATOM	31174	N4	C	A1478	160.874	60.990	-21.532	1.00162.49	A16S
ATOM	31175	C5	C	A1478	159.875	63.111	-22.012	1.00162.49	A16S
ATOM	31176	C2*	C	A1478	159.297	66.186	-18.571	1.00171.22	A16S
ATOM	31177	O2*	C	A1478	158.522	66.685	-17.498	1.00171.22	A16S
ATOM	31178	C3*	C	A1478	159.987	67.274	-19.385	1.00171.22	A16S



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ATOM	31179	O3*	C	A1478	160.434	68.319	-18.526	1.00171.22	A16S
ATOM	31180	P	C	A1479	161.816	68.145	-17.706	1.00198.84	A16S
ATOM	31181	O1P	C	A1479	162.034	69.389	-16.917	1.00160.54	A16S
ATOM	31182	O2P	C	A1479	162.866	67.680	-18.659	1.00160.54	A16S
ATOM	31183	O5*	C	A1479	161.540	66.965	-16.665	1.00198.84	A16S
ATOM	31184	C5*	C	A1479	161.008	67.233	-15.344	1.00198.84	A16S
ATOM	31185	C4*	C	A1479	161.227	66.044	-14.425	1.00198.84	A16S
ATOM	31186	O4*	C	A1479	160.690	64.851	-15.064	1.00198.84	A16S
ATOM	31187	C1*	C	A1479	161.489	63.724	-14.734	1.00198.84	A16S
ATOM	31188	N1	C	A1479	162.111	63.194	-15.969	1.00160.54	A16S
ATOM	31189	C6	C	A1479	162.315	63.995	-17.062	1.00160.54	A16S
ATOM	31190	C2	C	A1479	162.509	61.849	-16.001	1.00160.54	A16S
ATOM	31191	O2	C	A1479	162.301	61.134	-15.005	1.00160.54	A16S
ATOM	31192	N3	C	A1479	163.109	61.363	-17.116	1.00160.54	A16S
ATOM	31193	C4	C	A1479	163.310	62.158	-18.170	1.00160.54	A16S
ATOM	31194	N4	C	A1479	163.912	61.635	-19.246	1.00160.54	A16S
ATOM	31195	C5	C	A1479	162.906	63.524	-18.170	1.00160.54	A16S
ATOM	31196	C2*	C	A1479	162.550	64.192	-13.740	1.00198.84	A16S
ATOM	31197	O2*	C	A1479	162.085	63.980	-12.420	1.00198.84	A16S
ATOM	31198	C3*	C	A1479	162.670	65.668	-14.096	1.00198.84	A16S
ATOM	31199	O3*	C	A1479	163.231	66.418	-13.021	1.00198.84	A16S
ATOM	31200	P	G	A1480	164.836	66.535	-12.881	1.00175.05	A16S
ATOM	31201	O1P	G	A1480	165.106	67.380	-11.690	1.00165.07	A16S
ATOM	31202	O2P	G	A1480	165.415	66.918	-14.200	1.00165.07	A16S
ATOM	31203	O5*	G	A1480	165.320	65.053	-12.542	1.00175.05	A16S
ATOM	31204	C5*	G	A1480	165.107	64.476	-11.234	1.00175.05	A16S
ATOM	31205	C4*	G	A1480	165.827	63.150	-11.119	1.00175.05	A16S
ATOM	31206	O4*	G	A1480	165.287	62.230	-12.101	1.00175.05	A16S
ATOM	31207	C1*	G	A1480	166.322	61.408	-12.609	1.00175.05	A16S
ATOM	31208	N9	G	A1480	166.422	61.631	-14.049	1.00165.07	A16S
ATOM	31209	C4	G	A1480	166.995	60.785	-14.969	1.00165.07	A16S
ATOM	31210	N3	G	A1480	167.566	59.592	-14.702	1.00165.07	A16S
ATOM	31211	C2	G	A1480	168.035	59.011	-15.794	1.00165.07	A16S
ATOM	31212	N2	G	A1480	168.633	57.814	-15.708	1.00165.07	A16S
ATOM	31213	N1	G	A1480	167.952	59.561	-17.052	1.00165.07	A16S
ATOM	31214	C6	G	A1480	167.367	60.787	-17.353	1.00165.07	A16S
ATOM	31215	O6	G	A1480	167.344	61.190	-18.526	1.00165.07	A16S
ATOM	31216	C5	G	A1480	166.857	61.420	-16.186	1.00165.07	A16S
ATOM	31217	N7	G	A1480	166.210	62.639	-16.034	1.00165.07	A16S
ATOM	31218	C8	G	A1480	165.971	62.721	-14.754	1.00165.07	A16S
ATOM	31219	C2*	G	A1480	167.611	61.761	-11.867	1.00175.05	A16S
ATOM	31220	O2*	G	A1480	167.801	60.856	-10.799	1.00175.05	A16S
ATOM	31221	C3*	G	A1480	167.322	63.182	-11.398	1.00175.05	A16S
ATOM	31222	O3*	G	A1480	168.069	63.519	-10.231	1.00175.05	A16S
ATOM	31223	P	U	A1481	169.557	64.118	-10.378	1.00136.05	A16S
ATOM	31224	O1P	U	A1481	170.102	64.270	-9.003	1.00176.85	A16S
ATOM	31225	O2P	U	A1481	169.515	65.298	-11.285	1.00176.85	A16S
ATOM	31226	O5*	U	A1481	170.368	62.957	-11.112	1.00136.05	A16S
ATOM	31227	C5*	U	A1481	170.645	61.710	-10.443	1.00136.05	A16S
ATOM	31228	C4*	U	A1481	171.403	60.779	-11.359	1.00136.05	A16S
ATOM	31229	O4*	U	A1481	170.547	60.347	-12.447	1.00136.05	A16S
ATOM	31230	C1*	U	A1481	171.320	60.192	-13.626	1.00136.05	A16S
ATOM	31231	N1	U	A1481	170.784	61.084	-14.670	1.00176.85	A16S
ATOM	31232	C6	U	A1481	170.118	62.250	-14.352	1.00176.85	A16S
ATOM	31233	C2	U	A1481	170.979	60.717	-15.998	1.00176.85	A16S
ATOM	31234	O2	U	A1481	171.555	59.694	-16.333	1.00176.85	A16S
ATOM	31235	N3	U	A1481	170.473	61.598	-16.923	1.00176.85	A16S
ATOM	31236	C4	U	A1481	169.807	62.778	-16.671	1.00176.85	A16S
ATOM	31237	O4	U	A1481	169.405	63.458	-17.619	1.00176.85	A16S
ATOM	31238	C5	U	A1481	169.638	63.085	-15.281	1.00176.85	A16S
ATOM	31239	C2*	U	A1481	172.776	60.504	-13.277	1.00136.05	A16S
ATOM	31240	O2*	U	A1481	173.462	59.305	-12.988	1.00136.05	A16S
ATOM	31241	C3*	U	A1481	172.617	61.381	-12.045	1.00136.05	A16S
ATOM	31242	O3*	U	A1481	173.765	61.345	-11.216	1.00136.05	A16S
ATOM	31243	P	G	A1482	174.939	62.416	-11.445	1.00141.68	A16S
ATOM	31244	O1P	G	A1482	175.974	62.163	-10.408	1.00166.65	A16S
ATOM	31245	O2P	G	A1482	174.339	63.768	-11.568	1.00166.65	A16S
ATOM	31246	O5*	G	A1482	175.534	62.021	-12.866	1.00141.68	A16S
ATOM	31247	C5*	G	A1482	176.198	60.764	-13.053	1.00141.68	A16S
ATOM	31248	C4*	G	A1482	176.526	60.558	-14.508	1.00141.68	A16S
ATOM	31249	O4*	G	A1482	175.298	60.447	-15.267	1.00141.68	A16S
ATOM	31250	C1*	G	A1482	175.476	61.030	-16.547	1.00141.68	A16S
ATOM	31251	N9	G	A1482	174.511	62.115	-16.691	1.00166.65	A16S
ATOM	31252	C4	G	A1482	174.117	62.704	-17.869	1.00166.65	A16S
ATOM	31253	N3	G	A1482	174.551	62.373	-19.107	1.00166.65	A16S
ATOM	31254	C2	G	A1482	173.994	63.122	-20.041	1.00166.65	A16S
ATOM	31255	N2	G	A1482	174.310	62.926	-21.331	1.00166.65	A16S



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ATOM	31256	N1	G	A1482	173.085	64.119	-19.780	1.00166.65	A16S
ATOM	31257	C6	G	A1482	172.627	64.477	-18.515	1.00166.65	A16S
ATOM	31258	O6	G	A1482	171.810	65.394	-18.392	1.00166.65	A16S
ATOM	31259	C5	G	A1482	173.213	63.680	-17.506	1.00166.65	A16S
ATOM	31260	N7	G	A1482	173.037	63.701	-16.129	1.00166.65	A16S
ATOM	31261	C8	G	A1482	173.823	62.758	-15.688	1.00166.65	A16S
ATOM	31262	C2*	G	A1482	176.925	61.513	-16.651	1.00141.68	A16S
ATOM	31263	O2*	G	A1482	177.704	60.543	-17.325	1.00141.68	A16S
ATOM	31264	C3*	G	A1482	177.300	61.680	-15.181	1.00141.68	A16S
ATOM	31265	O3*	G	A1482	178.695	61.543	-14.945	1.00141.68	A16S
ATOM	31266	P	A	A1483	179.718	62.640	-15.519	1.00140.60	A16S
ATOM	31267	O1P	A	A1483	180.685	62.942	-14.436	1.00170.43	A16S
ATOM	31268	O2P	A	A1483	178.957	63.744	-16.154	1.00170.43	A16S
ATOM	31269	O5*	A	A1483	180.490	61.852	-16.662	1.00140.60	A16S
ATOM	31270	C5*	A	A1483	181.161	60.613	-16.377	1.00140.60	A16S
ATOM	31271	C4*	A	A1483	181.674	60.006	-17.655	1.00140.60	A16S
ATOM	31272	O4*	A	A1483	180.553	59.591	-18.476	1.00140.60	A16S
ATOM	31273	C1*	A	A1483	180.827	59.874	-19.841	1.00140.60	A16S
ATOM	31274	N9	A	A1483	179.849	60.859	-20.299	1.00170.43	A16S
ATOM	31275	C4	A	A1483	179.558	61.170	-21.605	1.00170.43	A16S
ATOM	31276	N3	A	A1483	180.081	60.614	-22.714	1.00170.43	A16S
ATOM	31277	C2	A	A1483	179.575	61.184	-23.804	1.00170.43	A16S
ATOM	31278	N1	A	A1483	178.677	62.176	-23.904	1.00170.43	A16S
ATOM	31279	C6	A	A1483	178.180	62.715	-22.767	1.00170.43	A16S
ATOM	31280	N6	A	A1483	177.305	63.718	-22.856	1.00170.43	A16S
ATOM	31281	C5	A	A1483	178.626	62.191	-21.547	1.00170.43	A16S
ATOM	31282	N7	A	A1483	178.316	62.504	-20.231	1.00170.43	A16S
ATOM	31283	C8	A	A1483	179.060	61.685	-19.532	1.00170.43	A16S
ATOM	31284	C2*	A	A1483	182.246	60.441	-19.928	1.00140.60	A16S
ATOM	31285	O2*	A	A1483	183.194	59.454	-20.292	1.00140.60	A16S
ATOM	31286	C3*	A	A1483	182.433	60.991	-18.523	1.00140.60	A16S
ATOM	31287	O3*	A	A1483	183.783	61.123	-18.138	1.00140.60	A16S
ATOM	31288	P	C	A1484	184.394	62.591	-17.959	1.00152.64	A16S
ATOM	31289	O1P	C	A1484	185.842	62.437	-17.681	1.00159.98	A16S
ATOM	31290	O2P	C	A1484	183.529	63.316	-16.988	1.00159.98	A16S
ATOM	31291	O5*	C	A1484	184.215	63.252	-19.401	1.00152.64	A16S
ATOM	31292	C5*	C	A1484	184.695	62.589	-20.594	1.00152.64	A16S
ATOM	31293	C4*	C	A1484	184.137	63.262	-21.828	1.00152.64	A16S
ATOM	31294	O4*	C	A1484	182.695	63.112	-21.850	1.00152.64	A16S
ATOM	31295	C1*	C	A1484	182.094	64.295	-22.358	1.00152.64	A16S
ATOM	31296	N1	C	A1484	181.231	64.868	-21.306	1.00159.98	A16S
ATOM	31297	C6	C	A1484	181.574	64.767	-19.985	1.00159.98	A16S
ATOM	31298	C2	C	A1484	180.051	65.524	-21.677	1.00159.98	A16S
ATOM	31299	O2	C	A1484	179.760	65.605	-22.880	1.00159.98	A16S
ATOM	31300	N3	C	A1484	179.260	66.052	-20.716	1.00159.98	A16S
ATOM	31301	C4	C	A1484	179.609	65.950	-19.432	1.00159.98	A16S
ATOM	31302	N4	C	A1484	178.807	66.494	-18.518	1.00159.98	A16S
ATOM	31303	C5	C	A1484	180.800	65.287	-19.027	1.00159.98	A16S
ATOM	31304	C2*	C	A1484	183.214	65.247	-22.774	1.00152.64	A16S
ATOM	31305	O2*	C	A1484	183.462	65.121	-24.161	1.00152.64	A16S
ATOM	31306	C3*	C	A1484	184.366	64.762	-21.902	1.00152.64	A16S
ATOM	31307	O3*	C	A1484	185.629	65.070	-22.459	1.00152.64	A16S
ATOM	31308	P	U	A1485	186.334	66.464	-22.091	1.00190.61	A16S
ATOM	31309	O1P	U	A1485	187.665	66.457	-22.755	1.00145.34	A16S
ATOM	31310	O2P	U	A1485	186.240	66.679	-20.620	1.00145.34	A16S
ATOM	31311	O5*	U	A1485	185.416	67.557	-22.798	1.00190.61	A16S
ATOM	31312	C5*	U	A1485	185.267	67.590	-24.229	1.00190.61	A16S
ATOM	31313	C4*	U	A1485	184.161	68.541	-24.611	1.00190.61	A16S
ATOM	31314	O4*	U	A1485	182.931	68.100	-23.975	1.00190.61	A16S
ATOM	31315	C1*	U	A1485	182.143	69.227	-23.622	1.00190.61	A16S
ATOM	31316	N1	U	A1485	181.928	69.241	-22.161	1.00145.34	A16S
ATOM	31317	C6	U	A1485	182.378	68.235	-21.338	1.00145.34	A16S
ATOM	31318	C2	U	A1485	181.241	70.328	-21.633	1.00145.34	A16S
ATOM	31319	O2	U	A1485	180.829	71.241	-22.316	1.00145.34	A16S
ATOM	31320	N3	U	A1485	181.057	70.306	-20.276	1.00145.34	A16S
ATOM	31321	C4	U	A1485	181.474	69.339	-19.404	1.00145.34	A16S
ATOM	31322	O4	U	A1485	181.208	69.460	-18.208	1.00145.34	A16S
ATOM	31323	C5	U	A1485	182.180	68.246	-20.012	1.00145.34	A16S
ATOM	31324	C2*	U	A1485	182.884	70.475	-24.101	1.00190.61	A16S
ATOM	31325	O2*	U	A1485	182.398	70.872	-25.368	1.00190.61	A16S
ATOM	31326	C3*	U	A1485	184.320	69.980	-24.140	1.00190.61	A16S
ATOM	31327	O3*	U	A1485	185.122	70.787	-24.988	1.00190.61	A16S
ATOM	31328	P	G	A1486	185.758	72.152	-24.411	1.00178.98	A16S
ATOM	31329	O1P	G	A1486	186.812	72.572	-25.374	1.00159.99	A16S
ATOM	31330	O2P	G	A1486	186.111	71.955	-22.979	1.00159.99	A16S
ATOM	31331	O5*	G	A1486	184.559	73.207	-24.469	1.00178.98	A16S
ATOM	31332	C5*	G	A1486	184.202	73.860	-25.709	1.00178.98	A16S



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ATOM	31333	C4*	G	A1486	183.228	74.997	-25.465	1.00178.98	A16S
ATOM	31334	O4*	G	A1486	181.963	74.468	-24.984	1.00178.98	A16S
ATOM	31335	C1*	G	A1486	181.365	75.398	-24.093	1.00178.98	A16S
ATOM	31336	N9	G	A1486	181.252	74.778	-22.776	1.00159.99	A16S
ATOM	31337	C4	G	A1486	180.278	75.031	-21.838	1.00159.99	A16S
ATOM	31338	N3	G	A1486	179.253	75.899	-21.974	1.00159.99	A16S
ATOM	31339	C2	G	A1486	178.477	75.919	-20.904	1.00159.99	A16S
ATOM	31340	N2	G	A1486	177.409	76.726	-20.873	1.00159.99	A16S
ATOM	31341	N1	G	A1486	178.690	75.147	-19.785	1.00159.99	A16S
ATOM	31342	C6	G	A1486	179.737	74.243	-19.621	1.00159.99	A16S
ATOM	31343	O6	G	A1486	179.831	73.585	-18.570	1.00159.99	A16S
ATOM	31344	C5	G	A1486	180.584	74.216	-20.765	1.00159.99	A16S
ATOM	31345	N7	G	A1486	181.732	73.475	-21.019	1.00159.99	A16S
ATOM	31346	C8	G	A1486	182.093	73.840	-22.220	1.00159.99	A16S
ATOM	31347	C2*	G	A1486	182.262	76.632	-24.039	1.00178.98	A16S
ATOM	31348	O2*	G	A1486	181.785	77.589	-24.963	1.00178.98	A16S
ATOM	31349	C3*	G	A1486	183.613	76.045	-24.429	1.00178.98	A16S
ATOM	31350	O3*	G	A1486	184.503	77.042	-24.922	1.00178.98	A16S
ATOM	31351	P	G	A1487	185.454	77.838	-23.891	1.00166.98	A16S
ATOM	31352	O1P	G	A1487	186.516	78.510	-24.689	1.00156.41	A16S
ATOM	31353	O2P	G	A1487	185.835	76.913	-22.790	1.00156.41	A16S
ATOM	31354	O5*	G	A1487	184.511	78.967	-23.280	1.00166.98	A16S
ATOM	31355	C5*	G	A1487	183.916	79.946	-24.137	1.00166.98	A16S
ATOM	31356	C4*	G	A1487	182.622	80.445	-23.552	1.00166.98	A16S
ATOM	31357	O4*	G	A1487	181.764	79.316	-23.235	1.00166.98	A16S
ATOM	31358	C1*	G	A1487	180.952	79.632	-22.116	1.00166.98	A16S
ATOM	31359	N9	G	A1487	181.230	78.688	-21.037	1.00156.41	A16S
ATOM	31360	C4	G	A1487	180.386	78.370	-19.994	1.00156.41	A16S
ATOM	31361	N3	G	A1487	179.136	78.844	-19.810	1.00156.41	A16S
ATOM	31362	C2	G	A1487	178.586	78.368	-18.709	1.00156.41	A16S
ATOM	31363	N2	G	A1487	177.340	78.725	-18.379	1.00156.41	A16S
ATOM	31364	N1	G	A1487	179.214	77.506	-17.853	1.00156.41	A16S
ATOM	31365	C6	G	A1487	180.500	77.008	-18.017	1.00156.41	A16S
ATOM	31366	O6	G	A1487	180.975	76.237	-17.175	1.00156.41	A16S
ATOM	31367	C5	G	A1487	181.099	77.500	-19.200	1.00156.41	A16S
ATOM	31368	N7	G	A1487	182.355	77.257	-19.740	1.00156.41	A16S
ATOM	31369	C8	G	A1487	182.385	77.975	-20.830	1.00156.41	A16S
ATOM	31370	C2*	G	A1487	181.297	81.057	-21.692	1.00166.98	A16S
ATOM	31371	O2*	G	A1487	180.360	81.929	-22.292	1.00166.98	A16S
ATOM	31372	C3*	G	A1487	182.710	81.217	-22.248	1.00166.98	A16S
ATOM	31373	O3*	G	A1487	183.071	82.580	-22.462	1.00166.98	A16S
ATOM	31374	P	G	A1488	183.593	83.472	-21.224	1.00127.51	A16S
ATOM	31375	O1P	G	A1488	183.840	84.851	-21.727	1.00166.60	A16S
ATOM	31376	O2P	G	A1488	184.670	82.750	-20.506	1.00166.60	A16S
ATOM	31377	O5*	G	A1488	182.337	83.523	-20.258	1.00127.51	A16S
ATOM	31378	C5*	G	A1488	181.082	84.007	-20.741	1.00127.51	A16S
ATOM	31379	C4*	G	A1488	180.023	83.817	-19.699	1.00127.51	A16S
ATOM	31380	O4*	G	A1488	179.694	82.413	-19.534	1.00127.51	A16S
ATOM	31381	C1*	G	A1488	179.377	82.159	-18.170	1.00127.51	A16S
ATOM	31382	N9	G	A1488	180.324	81.178	-17.643	1.00166.60	A16S
ATOM	31383	C4	G	A1488	180.229	80.520	-16.435	1.00166.60	A16S
ATOM	31384	N3	G	A1488	179.230	80.651	-15.535	1.00166.60	A16S
ATOM	31385	C2	G	A1488	179.425	79.899	-14.466	1.00166.60	A16S
ATOM	31386	N2	G	A1488	178.519	79.897	-13.474	1.00166.60	A16S
ATOM	31387	N1	G	A1488	180.519	79.090	-14.290	1.00166.60	A16S
ATOM	31388	C6	G	A1488	181.559	78.940	-15.202	1.00166.60	A16S
ATOM	31389	O6	G	A1488	182.501	78.182	-14.942	1.00166.60	A16S
ATOM	31390	C5	G	A1488	181.357	79.736	-16.358	1.00166.60	A16S
ATOM	31391	N7	G	A1488	182.138	79.883	-17.496	1.00166.60	A16S
ATOM	31392	C8	G	A1488	181.488	80.744	-18.228	1.00166.60	A16S
ATOM	31393	C2*	G	A1488	179.488	83.488	-17.419	1.00127.51	A16S
ATOM	31394	O2*	G	A1488	178.215	84.104	-17.303	1.00127.51	A16S
ATOM	31395	C3*	G	A1488	180.449	84.251	-18.316	1.00127.51	A16S
ATOM	31396	O3*	G	A1488	180.414	85.651	-18.183	1.00127.51	A16S
ATOM	31397	P	G	A1489	181.680	86.407	-17.552	1.00153.68	A16S
ATOM	31398	O1P	G	A1489	181.937	87.619	-18.380	1.00133.53	A16S
ATOM	31399	O2P	G	A1489	182.773	85.408	-17.346	1.00133.53	A16S
ATOM	31400	O5*	G	A1489	181.130	86.864	-16.130	1.00153.68	A16S
ATOM	31401	C5*	G	A1489	179.739	87.217	-15.960	1.00153.68	A16S
ATOM	31402	C4*	G	A1489	179.228	86.677	-14.652	1.00153.68	A16S
ATOM	31403	O4*	G	A1489	179.100	85.236	-14.716	1.00153.68	A16S
ATOM	31404	C1*	G	A1489	179.498	84.665	-13.480	1.00153.68	A16S
ATOM	31405	N9	G	A1489	180.582	83.713	-13.737	1.00133.53	A16S
ATOM	31406	C4	G	A1489	181.074	82.770	-12.856	1.00133.53	A16S
ATOM	31407	N3	G	A1489	180.673	82.590	-11.578	1.00133.53	A16S
ATOM	31408	C2	G	A1489	181.317	81.593	-10.993	1.00133.53	A16S
ATOM	31409	N2	G	A1489	181.043	81.283	-9.720	1.00133.53	A16S



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ATOM	31410	N1	G	A1489	182.277	80.830	-11.609	1.00133.53	A16S
ATOM	31411	C6	G	A1489	182.707	80.992	-12.919	1.00133.53	A16S
ATOM	31412	O6	G	A1489	183.574	80.244	-13.373	1.00133.53	A16S
ATOM	31413	C5	G	A1489	182.028	82.066	-13.565	1.00133.53	A16S
ATOM	31414	N7	G	A1489	182.154	82.570	-14.854	1.00133.53	A16S
ATOM	31415	C8	G	A1489	181.289	83.548	-14.908	1.00133.53	A16S
ATOM	31416	C2*	G	A1489	179.843	85.812	-12.526	1.00153.68	A16S
ATOM	31417	O2*	G	A1489	178.716	86.120	-11.732	1.00153.68	A16S
ATOM	31418	C3*	G	A1489	180.180	86.926	-13.505	1.00153.68	A16S
ATOM	31419	O3*	G	A1489	180.005	88.235	-13.008	1.00153.68	A16S
ATOM	31420	P	C	A1490	181.291	89.170	-12.800	1.00197.33	A16S
ATOM	31421	O1P	C	A1490	180.854	90.573	-13.009	1.00135.33	A16S
ATOM	31422	O2P	C	A1490	182.427	88.626	-13.598	1.00135.33	A16S
ATOM	31423	O5*	C	A1490	181.630	88.964	-11.260	1.00197.33	A16S
ATOM	31424	C5*	C	A1490	180.600	89.106	-10.262	1.00197.33	A16S
ATOM	31425	C4*	C	A1490	180.927	88.275	-9.047	1.00197.33	A16S
ATOM	31426	O4*	C	A1490	180.733	86.863	-9.323	1.00197.33	A16S
ATOM	31427	C1*	C	A1490	181.697	86.104	-8.608	1.00197.33	A16S
ATOM	31428	N1	C	A1490	182.496	85.316	-9.568	1.00135.33	A16S
ATOM	31429	C6	C	A1490	182.665	85.735	-10.860	1.00135.33	A16S
ATOM	31430	C2	C	A1490	183.093	84.119	-9.129	1.00135.33	A16S
ATOM	31431	O2	C	A1490	182.944	83.762	-7.948	1.00135.33	A16S
ATOM	31432	N3	C	A1490	183.820	83.387	-9.999	1.00135.33	A16S
ATOM	31433	C4	C	A1490	183.976	83.805	-11.255	1.00135.33	A16S
ATOM	31434	N4	C	A1490	184.706	83.046	-12.071	1.00135.33	A16S
ATOM	31435	C5	C	A1490	183.390	85.020	-11.728	1.00135.33	A16S
ATOM	31436	C2*	C	A1490	182.554	87.079	-7.798	1.00197.33	A16S
ATOM	31437	O2*	C	A1490	182.078	87.163	-6.469	1.00197.33	A16S
ATOM	31438	C3*	C	A1490	182.364	88.370	-8.580	1.00197.33	A16S
ATOM	31439	O3*	C	A1490	182.602	89.527	-7.813	1.00197.33	A16S
ATOM	31440	P	G	A1491	184.080	90.129	-7.766	1.00184.51	A16S
ATOM	31441	O1P	G	A1491	184.000	91.457	-7.114	1.00160.21	A16S
ATOM	31442	O2P	G	A1491	184.648	90.018	-9.133	1.00160.21	A16S
ATOM	31443	O5*	G	A1491	184.856	89.116	-6.806	1.00184.51	A16S
ATOM	31444	C5*	G	A1491	184.368	88.824	-5.468	1.00184.51	A16S
ATOM	31445	C4*	G	A1491	185.167	87.695	-4.842	1.00184.51	A16S
ATOM	31446	O4*	G	A1491	184.924	86.462	-5.572	1.00184.51	A16S
ATOM	31447	C1*	G	A1491	186.125	85.708	-5.663	1.00184.51	A16S
ATOM	31448	N9	G	A1491	186.483	85.602	-7.078	1.00160.21	A16S
ATOM	31449	C4	G	A1491	187.654	85.087	-7.602	1.00160.21	A16S
ATOM	31450	N3	G	A1491	188.677	84.548	-6.898	1.00160.21	A16S
ATOM	31451	C2	G	A1491	189.673	84.166	-7.685	1.00160.21	A16S
ATOM	31452	N2	G	A1491	190.768	83.608	-7.160	1.00160.21	A16S
ATOM	31453	N1	G	A1491	189.670	84.304	-9.048	1.00160.21	A16S
ATOM	31454	C6	G	A1491	188.636	84.856	-9.794	1.00160.21	A16S
ATOM	31455	O6	G	A1491	188.745	84.943	-11.023	1.00160.21	A16S
ATOM	31456	C5	G	A1491	187.552	85.265	-8.966	1.00160.21	A16S
ATOM	31457	N7	G	A1491	186.337	85.853	-9.298	1.00160.21	A16S
ATOM	31458	C8	G	A1491	185.736	86.028	-8.152	1.00160.21	A16S
ATOM	31459	C2*	G	A1491	187.198	86.444	-4.852	1.00184.51	A16S
ATOM	31460	O2*	G	A1491	187.301	85.900	-3.551	1.00184.51	A16S
ATOM	31461	C3*	G	A1491	186.678	87.877	-4.874	1.00184.51	A16S
ATOM	31462	O3*	G	A1491	187.157	88.651	-3.778	1.00184.51	A16S
ATOM	31463	P	A	A1492	188.121	89.911	-4.052	1.00173.00	A16S
ATOM	31464	O1P	A	A1492	187.531	91.048	-3.301	1.00197.58	A16S
ATOM	31465	O2P	A	A1492	188.353	90.044	-5.516	1.00197.58	A16S
ATOM	31466	O5*	A	A1492	189.499	89.508	-3.354	1.00173.00	A16S
ATOM	31467	C5*	A	A1492	190.774	89.807	-3.980	1.00173.00	A16S
ATOM	31468	C4*	A	A1492	191.917	89.258	-3.149	1.00173.00	A16S
ATOM	31469	O4*	A	A1492	191.563	87.939	-2.676	1.00173.00	A16S
ATOM	31470	C1*	A	A1492	192.699	87.099	-2.705	1.00173.00	A16S
ATOM	31471	N9	A	A1492	192.353	85.903	-3.480	1.00197.58	A16S
ATOM	31472	C4	A	A1492	193.206	84.938	-3.966	1.00197.58	A16S
ATOM	31473	N3	A	A1492	194.547	84.904	-3.863	1.00197.58	A16S
ATOM	31474	C2	A	A1492	195.034	83.806	-4.441	1.00197.58	A16S
ATOM	31475	N1	A	A1492	194.383	82.811	-5.061	1.00197.58	A16S
ATOM	31476	C6	A	A1492	193.036	82.874	-5.145	1.00197.58	A16S
ATOM	31477	N6	A	A1492	192.386	81.876	-5.753	1.00197.58	A16S
ATOM	31478	C5	A	A1492	192.397	83.993	-4.576	1.00197.58	A16S
ATOM	31479	N7	A	A1492	191.061	84.363	-4.495	1.00197.58	A16S
ATOM	31480	C8	A	A1492	191.088	85.498	-3.844	1.00197.58	A16S
ATOM	31481	C2*	A	A1492	193.904	87.922	-3.185	1.00173.00	A16S
ATOM	31482	O2*	A	A1492	194.683	88.337	-2.081	1.00173.00	A16S
ATOM	31483	C3*	A	A1492	193.234	89.092	-3.900	1.00173.00	A16S
ATOM	31484	O3*	A	A1492	194.034	90.270	-3.782	1.00173.00	A16S
ATOM	31485	P	A	A1493	194.350	91.169	-5.082	1.00198.84	A16S
ATOM	31486	O1P	A	A1493	194.439	92.573	-4.598	1.00195.97	A16S



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ATOM	31487	O2P	A	A1493	193.395	90.827	-6.179	1.00195.97	A16S
ATOM	31488	O5*	A	A1493	195.805	90.711	-5.552	1.00198.84	A16S
ATOM	31489	C5*	A	A1493	196.985	90.999	-4.765	1.00198.84	A16S
ATOM	31490	C4*	A	A1493	198.013	89.905	-4.959	1.00198.84	A16S
ATOM	31491	O4*	A	A1493	197.368	88.642	-4.620	1.00198.84	A16S
ATOM	31492	C1*	A	A1493	197.732	87.629	-5.554	1.00198.84	A16S
ATOM	31493	N9	A	A1493	196.518	87.169	-6.246	1.00195.97	A16S
ATOM	31494	C4	A	A1493	196.385	86.016	-6.991	1.00195.97	A16S
ATOM	31495	N3	A	A1493	197.324	85.084	-7.234	1.00195.97	A16S
ATOM	31496	C2	A	A1493	196.832	84.109	-7.996	1.00195.97	A16S
ATOM	31497	N1	A	A1493	195.602	83.969	-8.502	1.00195.97	A16S
ATOM	31498	C6	A	A1493	194.681	84.921	-8.239	1.00195.97	A16S
ATOM	31499	N6	A	A1493	193.452	84.781	-8.740	1.00195.97	A16S
ATOM	31500	C5	A	A1493	195.076	86.010	-7.445	1.00195.97	A16S
ATOM	31501	N7	A	A1493	194.394	87.134	-7.000	1.00195.97	A16S
ATOM	31502	C8	A	A1493	195.287	87.786	-6.296	1.00195.97	A16S
ATOM	31503	C2*	A	A1493	198.809	88.196	-6.487	1.00198.84	A16S
ATOM	31504	O2*	A	A1493	200.077	87.822	-5.982	1.00198.84	A16S
ATOM	31505	C3*	A	A1493	198.541	89.693	-6.380	1.00198.84	A16S
ATOM	31506	O3*	A	A1493	198.309	90.600	-7.478	1.00198.84	A16S
ATOM	31507	P	G	A1494	199.453	90.849	-8.603	1.00107.27	A16S
ATOM	31508	O1P	G	A1494	200.653	91.403	-7.917	1.00 98.53	A16S
ATOM	31509	O2P	G	A1494	198.855	91.604	-9.731	1.00 98.53	A16S
ATOM	31510	O5*	G	A1494	199.867	89.402	-9.114	1.00107.27	A16S
ATOM	31511	C5*	G	A1494	200.989	88.725	-8.519	1.00107.27	A16S
ATOM	31512	C4*	G	A1494	201.290	87.462	-9.267	1.00107.27	A16S
ATOM	31513	O4*	G	A1494	200.114	86.613	-9.262	1.00107.27	A16S
ATOM	31514	C1*	G	A1494	199.971	85.983	-10.523	1.00107.27	A16S
ATOM	31515	N9	G	A1494	198.737	86.478	-11.134	1.00 98.53	A16S
ATOM	31516	C4	G	A1494	198.160	86.037	-12.306	1.00 98.53	A16S
ATOM	31517	N3	G	A1494	198.608	85.028	-13.084	1.00 98.53	A16S
ATOM	31518	C2	G	A1494	197.859	84.862	-14.161	1.00 98.53	A16S
ATOM	31519	N2	G	A1494	198.152	83.891	-15.031	1.00 98.53	A16S
ATOM	31520	N1	G	A1494	196.766	85.632	-14.461	1.00 98.53	A16S
ATOM	31521	C6	G	A1494	196.292	86.684	-13.686	1.00 98.53	A16S
ATOM	31522	O6	G	A1494	195.319	87.336	-14.070	1.00 98.53	A16S
ATOM	31523	C5	G	A1494	197.072	86.859	-12.509	1.00 98.53	A16S
ATOM	31524	N7	G	A1494	196.940	87.767	-11.469	1.00 98.53	A16S
ATOM	31525	C8	G	A1494	197.942	87.502	-10.676	1.00 98.53	A16S
ATOM	31526	C2*	G	A1494	201.213	86.343	-11.347	1.00107.27	A16S
ATOM	31527	O2*	G	A1494	202.213	85.359	-11.160	1.00107.27	A16S
ATOM	31528	C3*	G	A1494	201.608	87.676	-10.731	1.00107.27	A16S
ATOM	31529	O3*	G	A1494	202.978	88.005	-10.901	1.00107.27	A16S
ATOM	31530	P	U	A1495	203.402	89.113	-11.989	1.00 98.55	A16S
ATOM	31531	O1P	U	A1495	204.808	89.494	-11.701	1.00111.63	A16S
ATOM	31532	O2P	U	A1495	202.351	90.170	-12.062	1.00111.63	A16S
ATOM	31533	O5*	U	A1495	203.400	88.298	-13.355	1.00 98.55	A16S
ATOM	31534	C5*	U	A1495	204.071	87.030	-13.446	1.00 98.55	A16S
ATOM	31535	C4*	U	A1495	203.708	86.337	-14.733	1.00 98.55	A16S
ATOM	31536	O4*	U	A1495	202.336	85.868	-14.691	1.00 98.55	A16S
ATOM	31537	C1*	U	A1495	201.753	85.978	-15.980	1.00 98.55	A16S
ATOM	31538	N1	U	A1495	200.608	86.906	-15.903	1.00111.63	A16S
ATOM	31539	C6	U	A1495	200.471	87.796	-14.852	1.00111.63	A16S
ATOM	31540	C2	U	A1495	199.662	86.865	-16.923	1.00111.63	A16S
ATOM	31541	O2	U	A1495	199.743	86.115	-17.887	1.00111.63	A16S
ATOM	31542	N3	U	A1495	198.615	87.746	-16.776	1.00111.63	A16S
ATOM	31543	C4	U	A1495	198.415	88.653	-15.746	1.00111.63	A16S
ATOM	31544	O4	U	A1495	197.396	89.352	-15.739	1.00111.63	A16S
ATOM	31545	C5	U	A1495	199.439	88.648	-14.744	1.00111.63	A16S
ATOM	31546	C2*	U	A1495	202.848	86.467	-16.928	1.00 98.55	A16S
ATOM	31547	O2*	U	A1495	203.493	85.351	-17.511	1.00 98.55	A16S
ATOM	31548	C3*	U	A1495	203.763	87.209	-15.970	1.00 98.55	A16S
ATOM	31549	O3*	U	A1495	205.079	87.375	-16.451	1.00 98.55	A16S
ATOM	31550	P	C	A1496	205.559	88.834	-16.921	1.00 89.68	A16S
ATOM	31551	O1P	C	A1496	207.048	88.814	-16.989	1.00 89.79	A16S
ATOM	31552	O2P	C	A1496	204.867	89.865	-16.090	1.00 89.79	A16S
ATOM	31553	O5*	C	A1496	204.985	88.951	-18.399	1.00 89.68	A16S
ATOM	31554	C5*	C	A1496	205.296	87.951	-19.379	1.00 89.68	A16S
ATOM	31555	C4*	C	A1496	204.391	88.092	-20.571	1.00 89.68	A16S
ATOM	31556	O4*	C	A1496	203.049	87.653	-20.235	1.00 89.68	A16S
ATOM	31557	C1*	C	A1496	202.100	88.463	-20.908	1.00 89.68	A16S
ATOM	31558	N1	C	A1496	201.305	89.200	-19.897	1.00 89.79	A16S
ATOM	31559	C6	C	A1496	201.727	89.278	-18.597	1.00 89.79	A16S
ATOM	31560	C2	C	A1496	200.114	89.846	-20.292	1.00 89.79	A16S
ATOM	31561	O2	C	A1496	199.730	89.748	-21.467	1.00 89.79	A16S
ATOM	31562	N3	C	A1496	199.418	90.564	-19.377	1.00 89.79	A16S
ATOM	31563	C4	C	A1496	199.856	90.649	-18.116	1.00 89.79	A16S



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ATOM	31564	N4	C	A1496	199.148	91.388	-17.249	1.00	89.79	A16S
ATOM	31565	C5	C	A1496	201.043	89.986	-17.685	1.00	89.79	A16S
ATOM	31566	C2*	C	A1496	202.886	89.416	-21.815	1.00	89.68	A16S
ATOM	31567	O2*	C	A1496	203.036	88.848	-23.104	1.00	89.68	A16S
ATOM	31568	C3*	C	A1496	204.215	89.509	-21.082	1.00	89.68	A16S
ATOM	31569	O3*	C	A1496	205.288	89.933	-21.922	1.00	89.68	A16S
ATOM	31570	P	G	A1497	205.969	91.377	-21.676	1.00	85.31	A16S
ATOM	31571	O1P	G	A1497	206.904	91.635	-22.810	1.00	98.82	A16S
ATOM	31572	O2P	G	A1497	206.475	91.426	-20.275	1.00	98.82	A16S
ATOM	31573	O5*	G	A1497	204.743	92.390	-21.761	1.00	85.31	A16S
ATOM	31574	C5*	G	A1497	204.670	93.417	-22.774	1.00	85.31	A16S
ATOM	31575	C4*	G	A1497	203.410	93.248	-23.597	1.00	85.31	A16S
ATOM	31576	O4*	G	A1497	202.462	92.392	-22.900	1.00	85.31	A16S
ATOM	31577	C1*	G	A1497	201.140	92.847	-23.124	1.00	85.31	A16S
ATOM	31578	N9	G	A1497	200.562	93.216	-21.831	1.00	98.82	A16S
ATOM	31579	C4	G	A1497	199.258	93.579	-21.583	1.00	98.82	A16S
ATOM	31580	N3	G	A1497	198.253	93.603	-22.484	1.00	98.82	A16S
ATOM	31581	C2	G	A1497	197.116	94.030	-21.951	1.00	98.82	A16S
ATOM	31582	N2	G	A1497	196.011	94.098	-22.704	1.00	98.82	A16S
ATOM	31583	N1	G	A1497	196.977	94.419	-20.639	1.00	98.82	A16S
ATOM	31584	C6	G	A1497	197.997	94.411	-19.688	1.00	98.82	A16S
ATOM	31585	O6	G	A1497	197.769	94.809	-18.524	1.00	98.82	A16S
ATOM	31586	C5	G	A1497	199.223	93.929	-20.244	1.00	98.82	A16S
ATOM	31587	N7	G	A1497	200.466	93.741	-19.653	1.00	98.82	A16S
ATOM	31588	C8	G	A1497	201.222	93.310	-20.627	1.00	98.82	A16S
ATOM	31589	C2*	G	A1497	201.230	94.021	-24.108	1.00	85.31	A16S
ATOM	31590	O2*	G	A1497	201.052	93.546	-25.427	1.00	85.31	A16S
ATOM	31591	C3*	G	A1497	202.649	94.530	-23.877	1.00	85.31	A16S
ATOM	31592	O3*	G	A1497	203.187	95.236	-24.997	1.00	85.31	A16S
ATOM	31593	P	U	A1498	203.291	96.849	-24.954	1.00	70.16	A16S
ATOM	31594	O1P	U	A1498	203.757	97.336	-26.285	1.00	65.31	A16S
ATOM	31595	O2P	U	A1498	204.026	97.260	-23.731	1.00	65.31	A16S
ATOM	31596	O5*	U	A1498	201.781	97.309	-24.759	1.00	70.16	A16S
ATOM	31597	C5*	U	A1498	200.718	96.681	-25.503	1.00	70.16	A16S
ATOM	31598	C4*	U	A1498	199.392	97.311	-25.155	1.00	70.16	A16S
ATOM	31599	O4*	U	A1498	199.008	96.961	-23.800	1.00	70.16	A16S
ATOM	31600	C1*	U	A1498	198.775	98.122	-23.026	1.00	70.16	A16S
ATOM	31601	N1	U	A1498	199.235	97.821	-21.660	1.00	65.31	A16S
ATOM	31602	C6	U	A1498	200.467	97.268	-21.423	1.00	65.31	A16S
ATOM	31603	C2	U	A1498	198.366	98.069	-20.618	1.00	65.31	A16S
ATOM	31604	O2	U	A1498	197.292	98.600	-20.781	1.00	65.31	A16S
ATOM	31605	N3	U	A1498	198.801	97.678	-19.373	1.00	65.31	A16S
ATOM	31606	C4	U	A1498	200.013	97.093	-19.066	1.00	65.31	A16S
ATOM	31607	O4	U	A1498	200.288	96.824	-17.887	1.00	65.31	A16S
ATOM	31608	C5	U	A1498	200.876	96.902	-20.198	1.00	65.31	A16S
ATOM	31609	C2*	U	A1498	199.415	99.307	-23.750	1.00	70.16	A16S
ATOM	31610	O2*	U	A1498	198.600	100.431	-23.511	1.00	70.16	A16S
ATOM	31611	C3*	U	A1498	199.386	98.815	-25.199	1.00	70.16	A16S
ATOM	31612	O3*	U	A1498	199.248	99.494	-26.448	1.00	70.16	A16S
ATOM	31613	P	A	A1499	197.819	100.041	-26.929	1.00	57.78	A16S
ATOM	31614	O1P	A	A1499	198.092	100.794	-28.183	1.00	76.53	A16S
ATOM	31615	O2P	A	A1499	197.127	100.729	-25.797	1.00	76.53	A16S
ATOM	31616	O5*	A	A1499	196.971	98.740	-27.266	1.00	57.78	A16S
ATOM	31617	C5*	A	A1499	196.235	98.664	-28.512	1.00	57.78	A16S
ATOM	31618	C4*	A	A1499	194.737	98.769	-28.281	1.00	57.78	A16S
ATOM	31619	O4*	A	A1499	194.326	97.664	-27.433	1.00	57.78	A16S
ATOM	31620	C1*	A	A1499	193.289	98.084	-26.573	1.00	57.78	A16S
ATOM	31621	N9	A	A1499	193.817	98.041	-25.215	1.00	76.53	A16S
ATOM	31622	C4	A	A1499	193.138	98.356	-24.068	1.00	76.53	A16S
ATOM	31623	N3	A	A1499	191.852	98.727	-23.957	1.00	76.53	A16S
ATOM	31624	C2	A	A1499	191.555	99.002	-22.692	1.00	76.53	A16S
ATOM	31625	N1	A	A1499	192.337	98.945	-21.614	1.00	76.53	A16S
ATOM	31626	C6	A	A1499	193.622	98.557	-21.771	1.00	76.53	A16S
ATOM	31627	N6	A	A1499	194.413	98.485	-20.704	1.00	76.53	A16S
ATOM	31628	C5	A	A1499	194.058	98.248	-23.051	1.00	76.53	A16S
ATOM	31629	N7	A	A1499	195.290	97.848	-23.539	1.00	76.53	A16S
ATOM	31630	C8	A	A1499	195.093	97.727	-24.823	1.00	76.53	A16S
ATOM	31631	C2*	A	A1499	192.913	99.518	-26.966	1.00	57.78	A16S
ATOM	31632	O2*	A	A1499	191.843	99.494	-27.887	1.00	57.78	A16S
ATOM	31633	C3*	A	A1499	194.208	100.021	-27.586	1.00	57.78	A16S
ATOM	31634	O3*	A	A1499	193.977	101.115	-28.479	1.00	57.78	A16S
ATOM	31635	P	A	A1500	193.856	102.618	-27.891	1.00	57.31	A16S
ATOM	31636	O1P	A	A1500	193.681	103.587	-29.010	1.00	70.98	A16S
ATOM	31637	O2P	A	A1500	194.939	102.843	-26.890	1.00	70.98	A16S
ATOM	31638	O5*	A	A1500	192.488	102.564	-27.090	1.00	57.31	A16S
ATOM	31639	C5*	A	A1500	191.265	102.264	-27.761	1.00	57.31	A16S
ATOM	31640	C4*	A	A1500	190.102	102.542	-26.854	1.00	57.31	A16S



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ATOM	31641	O4*	A	A1500	190.131	101.604	-25.753	1.00	57.31	A16S
ATOM	31642	C1*	A	A1500	189.804	102.274	-24.549	1.00	57.31	A16S
ATOM	31643	N9	A	A1500	191.005	102.273	-23.699	1.00	70.98	A16S
ATOM	31644	C4	A	A1500	191.088	102.643	-22.377	1.00	70.98	A16S
ATOM	31645	N3	A	A1500	190.095	103.079	-21.588	1.00	70.98	A16S
ATOM	31646	C2	A	A1500	190.549	103.351	-20.371	1.00	70.98	A16S
ATOM	31647	N1	A	A1500	191.785	103.249	-19.892	1.00	70.98	A16S
ATOM	31648	C6	A	A1500	192.760	102.814	-20.707	1.00	70.98	A16S
ATOM	31649	N6	A	A1500	193.998	102.727	-20.223	1.00	70.98	A16S
ATOM	31650	C5	A	A1500	192.411	102.484	-22.022	1.00	70.98	A16S
ATOM	31651	N7	A	A1500	193.156	102.018	-23.095	1.00	70.98	A16S
ATOM	31652	C8	A	A1500	192.281	101.910	-24.061	1.00	70.98	A16S
ATOM	31653	C2*	A	A1500	189.355	103.689	-24.933	1.00	57.31	A16S
ATOM	31654	O2*	A	A1500	187.972	103.718	-25.232	1.00	57.31	A16S
ATOM	31655	C3*	A	A1500	190.140	103.914	-26.205	1.00	57.31	A16S
ATOM	31656	O3*	A	A1500	189.539	104.910	-27.010	1.00	57.31	A16S
ATOM	31657	P	C	A1501	190.113	106.403	-26.955	1.00	57.71	A16S
ATOM	31658	O1P	C	A1501	189.355	107.240	-27.945	1.00	66.61	A16S
ATOM	31659	O2P	C	A1501	191.604	106.331	-27.034	1.00	66.61	A16S
ATOM	31660	O5*	C	A1501	189.738	106.859	-25.479	1.00	57.71	A16S
ATOM	31661	C5*	C	A1501	188.368	106.866	-25.039	1.00	57.71	A16S
ATOM	31662	C4*	C	A1501	188.266	107.469	-23.661	1.00	57.71	A16S
ATOM	31663	O4*	C	A1501	188.809	106.554	-22.687	1.00	57.71	A16S
ATOM	31664	C1*	C	A1501	189.367	107.289	-21.620	1.00	57.71	A16S
ATOM	31665	N1	C	A1501	190.760	106.869	-21.427	1.00	66.61	A16S
ATOM	31666	C6	C	A1501	191.459	106.253	-22.425	1.00	66.61	A16S
ATOM	31667	C2	C	A1501	191.364	107.112	-20.178	1.00	66.61	A16S
ATOM	31668	O2	C	A1501	190.708	107.694	-19.284	1.00	66.61	A16S
ATOM	31669	N3	C	A1501	192.640	106.717	-19.980	1.00	66.61	A16S
ATOM	31670	C4	C	A1501	193.310	106.118	-20.963	1.00	66.61	A16S
ATOM	31671	N4	C	A1501	194.567	105.763	-20.723	1.00	66.61	A16S
ATOM	31672	C5	C	A1501	192.720	105.863	-22.238	1.00	66.61	A16S
ATOM	31673	C2*	C	A1501	189.208	108.779	-21.921	1.00	57.71	A16S
ATOM	31674	O2*	C	A1501	188.066	109.245	-21.234	1.00	57.71	A16S
ATOM	31675	C3*	C	A1501	189.012	108.773	-23.428	1.00	57.71	A16S
ATOM	31676	O3*	C	A1501	188.213	109.867	-23.819	1.00	57.71	A16S
ATOM	31677	P	A	A1502	188.710	110.827	-24.993	1.00	65.93	A16S
ATOM	31678	O1P	A	A1502	187.588	111.742	-25.330	1.00	84.68	A16S
ATOM	31679	O2P	A	A1502	189.334	110.015	-26.067	1.00	84.68	A16S
ATOM	31680	O5*	A	A1502	189.857	111.669	-24.300	1.00	65.93	A16S
ATOM	31681	C5*	A	A1502	189.726	113.073	-24.226	1.00	65.93	A16S
ATOM	31682	C4*	A	A1502	191.064	113.753	-24.326	1.00	65.93	A16S
ATOM	31683	O4*	A	A1502	191.761	113.720	-23.073	1.00	65.93	A16S
ATOM	31684	C1*	A	A1502	193.127	113.810	-23.335	1.00	65.93	A16S
ATOM	31685	N9	A	A1502	193.852	113.495	-22.103	1.00	84.68	A16S
ATOM	31686	C4	A	A1502	194.970	112.731	-21.940	1.00	84.68	A16S
ATOM	31687	N3	A	A1502	195.606	112.029	-22.882	1.00	84.68	A16S
ATOM	31688	C2	A	A1502	196.670	111.446	-22.366	1.00	84.68	A16S
ATOM	31689	N1	A	A1502	197.144	111.494	-21.103	1.00	84.68	A16S
ATOM	31690	C6	A	A1502	196.474	112.223	-20.189	1.00	84.68	A16S
ATOM	31691	N6	A	A1502	196.953	112.309	-18.952	1.00	84.68	A16S
ATOM	31692	C5	A	A1502	195.322	112.861	-20.604	1.00	84.68	A16S
ATOM	31693	N7	A	A1502	194.411	113.646	-19.924	1.00	84.68	A16S
ATOM	31694	C8	A	A1502	193.554	113.989	-20.847	1.00	84.68	A16S
ATOM	31695	C2*	A	A1502	193.312	112.987	-24.604	1.00	65.93	A16S
ATOM	31696	O2*	A	A1502	194.507	113.419	-25.212	1.00	65.93	A16S
ATOM	31697	C3*	A	A1502	192.076	113.412	-25.413	1.00	65.93	A16S
ATOM	31698	O3*	A	A1502	192.352	114.644	-26.060	1.00	65.93	A16S
ATOM	31699	P	A	A1503	191.332	115.209	-27.167	1.00	75.78	A16S
ATOM	31700	O1P	A	A1503	191.449	116.689	-27.197	1.00	91.97	A16S
ATOM	31701	O2P	A	A1503	189.994	114.583	-26.984	1.00	91.97	A16S
ATOM	31702	O5*	A	A1503	191.957	114.661	-28.518	1.00	75.78	A16S
ATOM	31703	C5*	A	A1503	191.255	113.709	-29.337	1.00	75.78	A16S
ATOM	31704	C4*	A	A1503	192.218	113.062	-30.303	1.00	75.78	A16S
ATOM	31705	O4*	A	A1503	192.877	114.110	-31.067	1.00	75.78	A16S
ATOM	31706	C1*	A	A1503	194.271	114.053	-30.860	1.00	75.78	A16S
ATOM	31707	N9	A	A1503	194.756	115.427	-30.822	1.00	91.97	A16S
ATOM	31708	C4	A	A1503	195.356	116.081	-31.863	1.00	91.97	A16S
ATOM	31709	N3	A	A1503	195.646	115.583	-33.074	1.00	91.97	A16S
ATOM	31710	C2	A	A1503	196.197	116.516	-33.838	1.00	91.97	A16S
ATOM	31711	N1	A	A1503	196.469	117.794	-33.551	1.00	91.97	A16S
ATOM	31712	C6	A	A1503	196.161	118.258	-32.320	1.00	91.97	A16S
ATOM	31713	N6	A	A1503	196.421	119.534	-32.029	1.00	91.97	A16S
ATOM	31714	C5	A	A1503	195.579	117.368	-31.420	1.00	91.97	A16S
ATOM	31715	N7	A	A1503	195.153	117.518	-30.112	1.00	91.97	A16S
ATOM	31716	C8	A	A1503	194.681	116.337	-29.802	1.00	91.97	A16S
ATOM	31717	C2*	A	A1503	194.483	113.248	-29.581	1.00	75.78	A16S



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ATOM	31718	O2*	A	A1503	195.771	112.683	-29.564	1.00	75.78	A16S
ATOM	31719	C3*	A	A1503	193.328	112.246	-29.652	1.00	75.78	A16S
ATOM	31720	O3*	A	A1503	193.609	111.145	-30.529	1.00	75.78	A16S
ATOM	31721	P	G	A1504	193.996	109.708	-29.925	1.00	61.53	A16S
ATOM	31722	O1P	G	A1504	194.569	108.852	-31.002	1.00	80.04	A16S
ATOM	31723	O2P	G	A1504	192.852	109.191	-29.123	1.00	80.04	A16S
ATOM	31724	O5*	G	A1504	195.233	110.076	-28.999	1.00	61.53	A16S
ATOM	31725	C5*	G	A1504	195.153	109.987	-27.592	1.00	61.53	A16S
ATOM	31726	C4*	G	A1504	195.841	108.748	-27.155	1.00	61.53	A16S
ATOM	31727	O4*	G	A1504	195.952	108.780	-25.728	1.00	61.53	A16S
ATOM	31728	C1*	G	A1504	195.207	107.736	-25.154	1.00	61.53	A16S
ATOM	31729	N9	G	A1504	194.316	108.343	-24.167	1.00	80.04	A16S
ATOM	31730	C4	G	A1504	194.612	108.581	-22.850	1.00	80.04	A16S
ATOM	31731	N3	G	A1504	195.778	108.314	-22.242	1.00	80.04	A16S
ATOM	31732	C2	G	A1504	195.746	108.627	-20.964	1.00	80.04	A16S
ATOM	31733	N2	G	A1504	196.825	108.451	-20.205	1.00	80.04	A16S
ATOM	31734	N1	G	A1504	194.660	109.142	-20.332	1.00	80.04	A16S
ATOM	31735	C6	G	A1504	193.451	109.424	-20.934	1.00	80.04	A16S
ATOM	31736	O6	G	A1504	192.530	109.873	-20.260	1.00	80.04	A16S
ATOM	31737	C5	G	A1504	193.469	109.115	-22.309	1.00	80.04	A16S
ATOM	31738	N7	G	A1504	192.479	109.240	-23.270	1.00	80.04	A16S
ATOM	31739	C8	G	A1504	193.027	108.775	-24.357	1.00	80.04	A16S
ATOM	31740	C2*	G	A1504	194.492	106.935	-26.249	1.00	61.53	A16S
ATOM	31741	O2*	G	A1504	194.710	105.549	-26.050	1.00	61.53	A16S
ATOM	31742	C3*	G	A1504	195.113	107.475	-27.538	1.00	61.53	A16S
ATOM	31743	O3*	G	A1504	195.802	106.657	-28.511	1.00	61.53	A16S
ATOM	31744	P	G	A1505	196.842	105.499	-28.059	1.00	68.97	A16S
ATOM	31745	O1P	G	A1505	196.335	104.210	-28.597	1.00	59.57	A16S
ATOM	31746	O2P	G	A1505	197.134	105.616	-26.607	1.00	59.57	A16S
ATOM	31747	O5*	G	A1505	198.168	105.879	-28.868	1.00	68.97	A16S
ATOM	31748	C5*	G	A1505	198.097	106.588	-30.140	1.00	68.97	A16S
ATOM	31749	C4*	G	A1505	199.181	107.643	-30.216	1.00	68.97	A16S
ATOM	31750	O4*	G	A1505	198.945	108.576	-29.146	1.00	68.97	A16S
ATOM	31751	C1*	G	A1505	200.146	108.850	-28.474	1.00	68.97	A16S
ATOM	31752	N9	G	A1505	199.966	108.408	-27.102	1.00	59.57	A16S
ATOM	31753	C4	G	A1505	199.543	109.192	-26.064	1.00	59.57	A16S
ATOM	31754	N3	G	A1505	199.275	110.508	-26.133	1.00	59.57	A16S
ATOM	31755	C2	G	A1505	198.843	110.974	-24.981	1.00	59.57	A16S
ATOM	31756	N2	G	A1505	198.502	112.254	-24.877	1.00	59.57	A16S
ATOM	31757	N1	G	A1505	198.707	110.216	-23.849	1.00	59.57	A16S
ATOM	31758	C6	G	A1505	198.982	108.864	-23.757	1.00	59.57	A16S
ATOM	31759	O6	G	A1505	198.824	108.276	-22.691	1.00	59.57	A16S
ATOM	31760	C5	G	A1505	199.429	108.344	-24.982	1.00	59.57	A16S
ATOM	31761	N7	G	A1505	199.805	107.054	-25.326	1.00	59.57	A16S
ATOM	31762	C8	G	A1505	200.125	107.141	-26.592	1.00	59.57	A16S
ATOM	31763	C2*	G	A1505	201.293	108.207	-29.244	1.00	68.97	A16S
ATOM	31764	O2*	G	A1505	201.854	109.205	-30.065	1.00	68.97	A16S
ATOM	31765	C3*	G	A1505	200.589	107.100	-30.023	1.00	68.97	A16S
ATOM	31766	O3*	G	A1505	201.244	106.992	-31.294	1.00	68.97	A16S
ATOM	31767	P	U	A1506	200.998	105.715	-32.255	1.00	74.28	A16S
ATOM	31768	O1P	U	A1506	200.747	104.458	-31.436	1.00	64.12	A16S
ATOM	31769	O2P	U	A1506	202.116	105.736	-33.243	1.00	64.12	A16S
ATOM	31770	O5*	U	A1506	199.706	106.136	-33.081	1.00	74.28	A16S
ATOM	31771	C5*	U	A1506	199.755	107.257	-33.985	1.00	74.28	A16S
ATOM	31772	C4*	U	A1506	198.673	107.121	-35.023	1.00	74.28	A16S
ATOM	31773	O4*	U	A1506	198.789	105.800	-35.612	1.00	74.28	A16S
ATOM	31774	C1*	U	A1506	197.571	105.114	-35.471	1.00	74.28	A16S
ATOM	31775	N1	U	A1506	197.851	103.681	-35.317	1.00	64.12	A16S
ATOM	31776	C6	U	A1506	198.396	103.165	-34.169	1.00	64.12	A16S
ATOM	31777	C2	U	A1506	197.525	102.857	-36.383	1.00	64.12	A16S
ATOM	31778	O2	U	A1506	197.100	103.291	-37.453	1.00	64.12	A16S
ATOM	31779	N3	U	A1506	197.731	101.513	-36.163	1.00	64.12	A16S
ATOM	31780	C4	U	A1506	198.245	100.931	-35.026	1.00	64.12	A16S
ATOM	31781	O4	U	A1506	198.296	99.705	-34.940	1.00	64.12	A16S
ATOM	31782	C5	U	A1506	198.602	101.856	-33.995	1.00	64.12	A16S
ATOM	31783	C2*	U	A1506	196.839	105.782	-34.308	1.00	74.28	A16S
ATOM	31784	O2*	U	A1506	195.444	105.557	-34.388	1.00	74.28	A16S
ATOM	31785	C3*	U	A1506	197.239	107.237	-34.513	1.00	74.28	A16S
ATOM	31786	O3*	U	A1506	196.439	107.742	-35.579	1.00	74.28	A16S
ATOM	31787	P	A	A1507	195.904	109.256	-35.552	1.00	65.42	A16S
ATOM	31788	O1P	A	A1507	195.262	109.542	-36.887	1.00	65.92	A16S
ATOM	31789	O2P	A	A1507	197.010	110.131	-35.062	1.00	65.92	A16S
ATOM	31790	O5*	A	A1507	194.765	109.254	-34.437	1.00	65.42	A16S
ATOM	31791	C5*	A	A1507	193.707	108.273	-34.439	1.00	65.42	A16S
ATOM	31792	C4*	A	A1507	192.669	108.646	-33.409	1.00	65.42	A16S
ATOM	31793	O4*	A	A1507	191.935	109.807	-33.867	1.00	65.42	A16S
ATOM	31794	C1*	A	A1507	190.577	109.696	-33.490	1.00	65.42	A16S



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ATOM	31795	N9	A	A1507	189.777	109.633	-34.719	1.00	65.92	A16S
ATOM	31796	C4	A	A1507	188.406	109.597	-34.812	1.00	65.92	A16S
ATOM	31797	N3	A	A1507	187.518	109.589	-33.803	1.00	65.92	A16S
ATOM	31798	C2	A	A1507	186.270	109.578	-34.276	1.00	65.92	A16S
ATOM	31799	N1	A	A1507	185.841	109.565	-35.544	1.00	65.92	A16S
ATOM	31800	C6	A	A1507	186.760	109.562	-36.533	1.00	65.92	A16S
ATOM	31801	N6	A	A1507	186.336	109.537	-37.795	1.00	65.92	A16S
ATOM	31802	C5	A	A1507	188.119	109.584	-36.167	1.00	65.92	A16S
ATOM	31803	N7	A	A1507	189.285	109.595	-36.916	1.00	65.92	A16S
ATOM	31804	C8	A	A1507	190.237	109.617	-36.016	1.00	65.92	A16S
ATOM	31805	C2*	A	A1507	190.453	108.456	-32.606	1.00	65.42	A16S
ATOM	31806	O2*	A	A1507	190.601	108.855	-31.247	1.00	65.42	A16S
ATOM	31807	C3*	A	A1507	191.604	107.608	-33.132	1.00	65.42	A16S
ATOM	31808	O3*	A	A1507	192.090	106.648	-32.216	1.00	65.42	A16S
ATOM	31809	P	G	A1508	191.838	105.089	-32.504	1.00	68.55	A16S
ATOM	31810	O1P	G	A1508	192.803	104.290	-31.698	1.00	63.82	A16S
ATOM	31811	O2P	G	A1508	191.762	104.879	-33.967	1.00	63.82	A16S
ATOM	31812	O5*	G	A1508	190.375	104.855	-31.923	1.00	68.55	A16S
ATOM	31813	C5*	G	A1508	190.059	105.204	-30.567	1.00	68.55	A16S
ATOM	31814	C4*	G	A1508	188.566	105.357	-30.390	1.00	68.55	A16S
ATOM	31815	O4*	G	A1508	188.085	106.531	-31.096	1.00	68.55	A16S
ATOM	31816	C1*	G	A1508	186.765	106.303	-31.550	1.00	68.55	A16S
ATOM	31817	N9	G	A1508	186.766	106.331	-33.005	1.00	63.82	A16S
ATOM	31818	C4	G	A1508	185.681	106.536	-33.821	1.00	63.82	A16S
ATOM	31819	N3	G	A1508	184.421	106.813	-33.419	1.00	63.82	A16S
ATOM	31820	C2	G	A1508	183.598	106.949	-34.450	1.00	63.82	A16S
ATOM	31821	N2	G	A1508	182.321	107.275	-34.251	1.00	63.82	A16S
ATOM	31822	N1	G	A1508	183.975	106.790	-35.757	1.00	63.82	A16S
ATOM	31823	C6	G	A1508	185.262	106.497	-36.185	1.00	63.82	A16S
ATOM	31824	O6	G	A1508	185.491	106.368	-37.380	1.00	63.82	A16S
ATOM	31825	C5	G	A1508	186.158	106.381	-35.105	1.00	63.82	A16S
ATOM	31826	N7	G	A1508	187.517	106.116	-35.098	1.00	63.82	A16S
ATOM	31827	C8	G	A1508	187.835	106.105	-33.834	1.00	63.82	A16S
ATOM	31828	C2*	G	A1508	186.351	104.915	-31.061	1.00	68.55	A16S
ATOM	31829	O2*	G	A1508	185.699	105.036	-29.809	1.00	68.55	A16S
ATOM	31830	C3*	G	A1508	187.695	104.225	-30.905	1.00	68.55	A16S
ATOM	31831	O3*	G	A1508	187.615	103.154	-29.978	1.00	68.55	A16S
ATOM	31832	P	C	A1509	187.080	101.717	-30.467	1.00	52.98	A16S
ATOM	31833	O1P	C	A1509	187.032	100.820	-29.268	1.00	72.99	A16S
ATOM	31834	O2P	C	A1509	187.869	101.304	-31.655	1.00	72.99	A16S
ATOM	31835	O5*	C	A1509	185.586	102.001	-30.954	1.00	52.98	A16S
ATOM	31836	C5*	C	A1509	184.568	102.298	-29.996	1.00	52.98	A16S
ATOM	31837	C4*	C	A1509	183.250	102.597	-30.670	1.00	52.98	A16S
ATOM	31838	O4*	C	A1509	183.369	103.748	-31.538	1.00	52.98	A16S
ATOM	31839	C1*	C	A1509	182.488	103.607	-32.628	1.00	52.98	A16S
ATOM	31840	N1	C	A1509	183.296	103.510	-33.840	1.00	72.99	A16S
ATOM	31841	C6	C	A1509	184.633	103.243	-33.769	1.00	72.99	A16S
ATOM	31842	C2	C	A1509	182.675	103.681	-35.071	1.00	72.99	A16S
ATOM	31843	O2	C	A1509	181.456	103.908	-35.106	1.00	72.99	A16S
ATOM	31844	N3	C	A1509	183.405	103.586	-36.191	1.00	72.99	A16S
ATOM	31845	C4	C	A1509	184.704	103.318	-36.114	1.00	72.99	A16S
ATOM	31846	N4	C	A1509	185.380	103.219	-37.254	1.00	72.99	A16S
ATOM	31847	C5	C	A1509	185.366	103.138	-34.869	1.00	72.99	A16S
ATOM	31848	C2*	C	A1509	181.694	102.322	-32.414	1.00	52.98	A16S
ATOM	31849	O2*	C	A1509	180.526	102.662	-31.715	1.00	52.98	A16S
ATOM	31850	C3*	C	A1509	182.644	101.519	-31.543	1.00	52.98	A16S
ATOM	31851	O3*	C	A1509	181.959	100.554	-30.754	1.00	52.98	A16S
ATOM	31852	P	U	A1510	181.961	99.005	-31.214	1.00	55.44	A16S
ATOM	31853	O1P	U	A1510	181.222	98.237	-30.164	1.00	73.94	A16S
ATOM	31854	O2P	U	A1510	183.361	98.612	-31.558	1.00	73.94	A16S
ATOM	31855	O5*	U	A1510	181.106	99.052	-32.560	1.00	55.44	A16S
ATOM	31856	C5*	U	A1510	179.851	99.730	-32.574	1.00	55.44	A16S
ATOM	31857	C4*	U	A1510	179.340	99.874	-33.976	1.00	55.44	A16S
ATOM	31858	O4*	U	A1510	180.112	100.853	-34.704	1.00	55.44	A16S
ATOM	31859	C1*	U	A1510	180.083	100.531	-36.085	1.00	55.44	A16S
ATOM	31860	N1	U	A1510	181.467	100.425	-36.554	1.00	73.94	A16S
ATOM	31861	C6	U	A1510	182.479	100.111	-35.680	1.00	73.94	A16S
ATOM	31862	C2	U	A1510	181.718	100.645	-37.894	1.00	73.94	A16S
ATOM	31863	O2	U	A1510	180.845	100.940	-38.699	1.00	73.94	A16S
ATOM	31864	N3	U	A1510	183.034	100.508	-38.256	1.00	73.94	A16S
ATOM	31865	C4	U	A1510	184.100	100.186	-37.424	1.00	73.94	A16S
ATOM	31866	O4	U	A1510	185.238	100.083	-37.895	1.00	73.94	A16S
ATOM	31867	C5	U	A1510	183.748	99.990	-36.058	1.00	73.94	A16S
ATOM	31868	C2*	U	A1510	179.309	99.218	-36.251	1.00	55.44	A16S
ATOM	31869	O2*	U	A1510	177.988	99.476	-36.685	1.00	55.44	A16S
ATOM	31870	C3*	U	A1510	179.373	98.636	-34.845	1.00	55.44	A16S
ATOM	31871	O3*	U	A1510	178.280	97.786	-34.555	1.00	55.44	A16S



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ATOM	31872	P	G	A1511	178.525	96.202	-34.429	1.00	51.30	A16S
ATOM	31873	O1P	G	A1511	177.527	95.682	-33.443	1.00	66.70	A16S
ATOM	31874	O2P	G	A1511	179.973	95.947	-34.189	1.00	66.70	A16S
ATOM	31875	O5*	G	A1511	178.149	95.675	-35.890	1.00	51.30	A16S
ATOM	31876	C5*	G	A1511	176.771	95.593	-36.290	1.00	51.30	A16S
ATOM	31877	C4*	G	A1511	176.657	95.353	-37.770	1.00	51.30	A16S
ATOM	31878	O4*	G	A1511	177.159	96.505	-38.478	1.00	51.30	A16S
ATOM	31879	C1*	G	A1511	177.840	96.100	-39.648	1.00	51.30	A16S
ATOM	31880	N9	G	A1511	179.238	96.464	-39.457	1.00	66.70	A16S
ATOM	31881	C4	G	A1511	180.219	96.598	-40.411	1.00	66.70	A16S
ATOM	31882	N3	G	A1511	180.077	96.397	-41.732	1.00	66.70	A16S
ATOM	31883	C2	G	A1511	181.206	96.599	-42.381	1.00	66.70	A16S
ATOM	31884	N2	G	A1511	181.255	96.421	-43.694	1.00	66.70	A16S
ATOM	31885	N1	G	A1511	182.375	96.981	-41.787	1.00	66.70	A16S
ATOM	31886	C6	G	A1511	182.545	97.187	-40.426	1.00	66.70	A16S
ATOM	31887	O6	G	A1511	183.652	97.511	-39.978	1.00	66.70	A16S
ATOM	31888	C5	G	A1511	181.349	96.970	-39.719	1.00	66.70	A16S
ATOM	31889	N7	G	A1511	181.090	97.059	-38.362	1.00	66.70	A16S
ATOM	31890	C8	G	A1511	179.830	96.747	-38.254	1.00	66.70	A16S
ATOM	31891	C2*	G	A1511	177.650	94.589	-39.775	1.00	51.30	A16S
ATOM	31892	O2*	G	A1511	176.535	94.321	-40.616	1.00	51.30	A16S
ATOM	31893	C3*	G	A1511	177.447	94.187	-38.319	1.00	51.30	A16S
ATOM	31894	O3*	G	A1511	176.761	92.955	-38.158	1.00	51.30	A16S
ATOM	31895	P	U	A1512	177.612	91.621	-37.879	1.00	59.94	A16S
ATOM	31896	O1P	U	A1512	176.687	90.466	-37.674	1.00	71.66	A16S
ATOM	31897	O2P	U	A1512	178.616	91.940	-36.833	1.00	71.66	A16S
ATOM	31898	O5*	U	A1512	178.389	91.403	-39.254	1.00	59.94	A16S
ATOM	31899	C5*	U	A1512	177.674	91.379	-40.520	1.00	59.94	A16S
ATOM	31900	C4*	U	A1512	178.645	91.408	-41.681	1.00	59.94	A16S
ATOM	31901	O4*	U	A1512	179.220	92.730	-41.824	1.00	59.94	A16S
ATOM	31902	C1*	U	A1512	180.562	92.615	-42.258	1.00	59.94	A16S
ATOM	31903	N1	U	A1512	181.449	93.203	-41.243	1.00	71.66	A16S
ATOM	31904	C6	U	A1512	181.056	93.397	-39.946	1.00	71.66	A16S
ATOM	31905	C2	U	A1512	182.713	93.539	-41.649	1.00	71.66	A16S
ATOM	31906	O2	U	A1512	183.095	93.384	-42.803	1.00	71.66	A16S
ATOM	31907	N3	U	A1512	183.522	94.056	-40.665	1.00	71.66	A16S
ATOM	31908	C4	U	A1512	183.198	94.261	-39.352	1.00	71.66	A16S
ATOM	31909	O4	U	A1512	184.037	94.742	-38.586	1.00	71.66	A16S
ATOM	31910	C5	U	A1512	181.867	93.896	-39.015	1.00	71.66	A16S
ATOM	31911	C2*	U	A1512	180.862	91.134	-42.482	1.00	59.94	A16S
ATOM	31912	O2*	U	A1512	180.636	90.854	-43.842	1.00	59.94	A16S
ATOM	31913	C3*	U	A1512	179.836	90.466	-41.578	1.00	59.94	A16S
ATOM	31914	O3*	U	A1512	179.475	89.181	-42.047	1.00	59.94	A16S
ATOM	31915	P	A	A1513	180.350	87.897	-41.643	1.00	64.29	A16S
ATOM	31916	O1P	A	A1513	179.726	86.768	-42.393	1.00	72.37	A16S
ATOM	31917	O2P	A	A1513	180.509	87.791	-40.169	1.00	72.37	A16S
ATOM	31918	O5*	A	A1513	181.773	88.195	-42.296	1.00	64.29	A16S
ATOM	31919	C5*	A	A1513	181.975	88.009	-43.715	1.00	64.29	A16S
ATOM	31920	C4*	A	A1513	183.412	88.281	-44.093	1.00	64.29	A16S
ATOM	31921	O4*	A	A1513	183.717	89.688	-43.932	1.00	64.29	A16S
ATOM	31922	C1*	A	A1513	185.089	89.839	-43.648	1.00	64.29	A16S
ATOM	31923	N9	A	A1513	185.231	90.549	-42.392	1.00	72.37	A16S
ATOM	31924	C4	A	A1513	186.326	91.287	-42.027	1.00	72.37	A16S
ATOM	31925	N3	A	A1513	187.435	91.509	-42.756	1.00	72.37	A16S
ATOM	31926	C2	A	A1513	188.300	92.255	-42.071	1.00	72.37	A16S
ATOM	31927	N1	A	A1513	188.188	92.764	-40.835	1.00	72.37	A16S
ATOM	31928	C6	A	A1513	187.058	92.519	-40.136	1.00	72.37	A16S
ATOM	31929	N6	A	A1513	186.942	93.027	-38.907	1.00	72.37	A16S
ATOM	31930	C5	A	A1513	186.066	91.741	-40.752	1.00	72.37	A16S
ATOM	31931	N7	A	A1513	184.819	91.309	-40.326	1.00	72.37	A16S
ATOM	31932	C8	A	A1513	184.366	90.610	-41.338	1.00	72.37	A16S
ATOM	31933	C2*	A	A1513	185.711	88.449	-43.559	1.00	64.29	A16S
ATOM	31934	O2*	A	A1513	186.339	88.179	-44.791	1.00	64.29	A16S
ATOM	31935	C3*	A	A1513	184.494	87.570	-43.300	1.00	64.29	A16S
ATOM	31936	O3*	A	A1513	184.700	86.253	-43.788	1.00	64.29	A16S
ATOM	31937	P	C	A1514	185.258	85.109	-42.803	1.00	61.06	A16S
ATOM	31938	O1P	C	A1514	185.032	83.807	-43.489	1.00	72.68	A16S
ATOM	31939	O2P	C	A1514	184.701	85.318	-41.436	1.00	72.68	A16S
ATOM	31940	O5*	C	A1514	186.833	85.370	-42.771	1.00	61.06	A16S
ATOM	31941	C5*	C	A1514	187.604	85.200	-43.970	1.00	61.06	A16S
ATOM	31942	C4*	C	A1514	188.965	85.840	-43.841	1.00	61.06	A16S
ATOM	31943	O4*	C	A1514	188.852	87.281	-43.700	1.00	61.06	A16S
ATOM	31944	C1*	C	A1514	189.903	87.758	-42.882	1.00	61.06	A16S
ATOM	31945	N1	C	A1514	189.305	88.354	-41.671	1.00	72.68	A16S
ATOM	31946	C6	C	A1514	188.137	87.868	-41.157	1.00	72.68	A16S
ATOM	31947	C2	C	A1514	189.951	89.416	-41.051	1.00	72.68	A16S
ATOM	31948	O2	C	A1514	191.023	89.813	-41.510	1.00	72.68	A16S



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ATOM	31949	N3	C	A1514	189.399	89.979	-39.958	1.00	72.68	A16S
ATOM	31950	C4	C	A1514	188.258	89.505	-39.472	1.00	72.68	A16S
ATOM	31951	N4	C	A1514	187.747	90.097	-38.400	1.00	72.68	A16S
ATOM	31952	C5	C	A1514	187.589	88.407	-40.066	1.00	72.68	A16S
ATOM	31953	C2*	C	A1514	190.791	86.558	-42.538	1.00	61.06	A16S
ATOM	31954	O2*	C	A1514	191.846	86.431	-43.473	1.00	61.06	A16S
ATOM	31955	C3*	C	A1514	189.811	85.406	-42.667	1.00	61.06	A16S
ATOM	31956	O3*	C	A1514	190.492	84.206	-42.935	1.00	61.06	A16S
ATOM	31957	P	C	A1515	190.972	83.297	-41.712	1.00	64.54	A16S
ATOM	31958	O1P	C	A1515	191.539	82.056	-42.298	1.00	72.76	A16S
ATOM	31959	O2P	C	A1515	189.841	83.208	-40.740	1.00	72.76	A16S
ATOM	31960	O5*	C	A1515	192.160	84.144	-41.058	1.00	64.54	A16S
ATOM	31961	C5*	C	A1515	193.415	84.335	-41.767	1.00	64.54	A16S
ATOM	31962	C4*	C	A1515	194.363	85.228	-40.979	1.00	64.54	A16S
ATOM	31963	O4*	C	A1515	193.792	86.559	-40.868	1.00	64.54	A16S
ATOM	31964	C1*	C	A1515	194.109	87.113	-39.604	1.00	64.54	A16S
ATOM	31965	N1	C	A1515	192.849	87.343	-38.859	1.00	72.76	A16S
ATOM	31966	C6	C	A1515	191.680	86.746	-39.242	1.00	72.76	A16S
ATOM	31967	C2	C	A1515	192.873	88.189	-37.741	1.00	72.76	A16S
ATOM	31968	O2	C	A1515	193.943	88.707	-37.405	1.00	72.76	A16S
ATOM	31969	N3	C	A1515	191.733	88.412	-37.054	1.00	72.76	A16S
ATOM	31970	C4	C	A1515	190.604	87.820	-37.432	1.00	72.76	A16S
ATOM	31971	N4	C	A1515	189.509	88.057	-36.711	1.00	72.76	A16S
ATOM	31972	C5	C	A1515	190.547	86.954	-38.563	1.00	72.76	A16S
ATOM	31973	C2*	C	A1515	195.053	86.142	-38.897	1.00	64.54	A16S
ATOM	31974	O2*	C	A1515	196.383	86.521	-39.165	1.00	64.54	A16S
ATOM	31975	C3*	C	A1515	194.670	84.818	-39.546	1.00	64.54	A16S
ATOM	31976	O3*	C	A1515	195.701	83.841	-39.454	1.00	64.54	A16S
ATOM	31977	P	G	A1516	195.785	82.903	-38.146	1.00	71.96	A16S
ATOM	31978	O1P	G	A1516	196.841	81.894	-38.379	1.00	87.49	A16S
ATOM	31979	O2P	G	A1516	194.410	82.459	-37.782	1.00	87.49	A16S
ATOM	31980	O5*	G	A1516	196.328	83.896	-37.029	1.00	71.96	A16S
ATOM	31981	C5*	G	A1516	197.538	84.657	-37.249	1.00	71.96	A16S
ATOM	31982	C4*	G	A1516	197.825	85.566	-36.066	1.00	71.96	A16S
ATOM	31983	O4*	G	A1516	196.932	86.715	-36.058	1.00	71.96	A16S
ATOM	31984	C1*	G	A1516	196.573	87.029	-34.720	1.00	71.96	A16S
ATOM	31985	N9	G	A1516	195.140	86.788	-34.567	1.00	87.49	A16S
ATOM	31986	C4	G	A1516	194.290	87.402	-33.678	1.00	87.49	A16S
ATOM	31987	N3	G	A1516	194.630	88.359	-32.793	1.00	87.49	A16S
ATOM	31988	C2	G	A1516	193.590	88.766	-32.086	1.00	87.49	A16S
ATOM	31989	N2	G	A1516	193.753	89.733	-31.166	1.00	87.49	A16S
ATOM	31990	N1	G	A1516	192.312	88.259	-32.228	1.00	87.49	A16S
ATOM	31991	C6	G	A1516	191.940	87.261	-33.124	1.00	87.49	A16S
ATOM	31992	O6	G	A1516	190.759	86.859	-33.162	1.00	87.49	A16S
ATOM	31993	C5	G	A1516	193.049	86.830	-33.900	1.00	87.49	A16S
ATOM	31994	N7	G	A1516	193.119	85.881	-34.908	1.00	87.49	A16S
ATOM	31995	C8	G	A1516	194.373	85.890	-35.274	1.00	87.49	A16S
ATOM	31996	C2*	G	A1516	197.382	86.113	-33.797	1.00	71.96	A16S
ATOM	31997	O2*	G	A1516	198.556	86.780	-33.376	1.00	71.96	A16S
ATOM	31998	C3*	G	A1516	197.649	84.918	-34.704	1.00	71.96	A16S
ATOM	31999	O3*	G	A1516	198.792	84.165	-34.330	1.00	71.96	A16S
ATOM	32000	P	G	A1517	198.611	82.844	-33.434	1.00	82.11	A16S
ATOM	32001	O1P	G	A1517	197.398	82.101	-33.905	1.00	96.09	A16S
ATOM	32002	O2P	G	A1517	199.928	82.141	-33.367	1.00	96.09	A16S
ATOM	32003	O5*	G	A1517	198.261	83.445	-32.001	1.00	82.11	A16S
ATOM	32004	C5*	G	A1517	199.285	83.992	-31.146	1.00	82.11	A16S
ATOM	32005	C4*	G	A1517	198.893	83.799	-29.704	1.00	82.11	A16S
ATOM	32006	O4*	G	A1517	200.023	84.042	-28.833	1.00	82.11	A16S
ATOM	32007	C1*	G	A1517	199.571	84.614	-27.620	1.00	82.11	A16S
ATOM	32008	N9	G	A1517	200.172	85.940	-27.501	1.00	96.09	A16S
ATOM	32009	C4	G	A1517	200.148	86.760	-26.393	1.00	96.09	A16S
ATOM	32010	N3	G	A1517	199.541	86.488	-25.214	1.00	96.09	A16S
ATOM	32011	C2	G	A1517	199.705	87.462	-24.336	1.00	96.09	A16S
ATOM	32012	N2	G	A1517	199.168	87.357	-23.113	1.00	96.09	A16S
ATOM	32013	N1	G	A1517	200.410	88.612	-24.589	1.00	96.09	A16S
ATOM	32014	C6	G	A1517	201.048	88.916	-25.791	1.00	96.09	A16S
ATOM	32015	O6	G	A1517	201.682	89.987	-25.908	1.00	96.09	A16S
ATOM	32016	C5	G	A1517	200.870	87.879	-26.752	1.00	96.09	A16S
ATOM	32017	N7	G	A1517	201.318	87.778	-28.063	1.00	96.09	A16S
ATOM	32018	C8	G	A1517	200.881	86.616	-28.467	1.00	96.09	A16S
ATOM	32019	C2*	G	A1517	198.043	84.664	-27.680	1.00	82.11	A16S
ATOM	32020	O2*	G	A1517	197.481	83.499	-27.093	1.00	82.11	A16S
ATOM	32021	C3*	G	A1517	197.812	84.719	-29.179	1.00	82.11	A16S
ATOM	32022	O3*	G	A1517	196.512	84.320	-29.549	1.00	82.11	A16S
ATOM	32023	P	A	A1518	195.485	85.432	-30.083	1.00	77.59	A16S
ATOM	32024	O1P	A	A1518	194.247	84.739	-30.520	1.00	76.83	A16S
ATOM	32025	O2P	A	A1518	196.200	86.345	-31.030	1.00	76.83	A16S



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ATOM	32026	O5*	A	A1518	195.160	86.296	-28.787	1.00	77.59	A16S
ATOM	32027	C5*	A	A1518	194.421	85.748	-27.679	1.00	77.59	A16S
ATOM	32028	C4*	A	A1518	194.399	86.749	-26.559	1.00	77.59	A16S
ATOM	32029	O4*	A	A1518	195.772	86.970	-26.152	1.00	77.59	A16S
ATOM	32030	C1*	A	A1518	195.990	88.348	-25.916	1.00	77.59	A16S
ATOM	32031	N9	A	A1518	197.008	88.825	-26.862	1.00	76.83	A16S
ATOM	32032	C4	A	A1518	197.775	89.964	-26.749	1.00	76.83	A16S
ATOM	32033	N3	A	A1518	197.767	90.857	-25.744	1.00	76.83	A16S
ATOM	32034	C2	A	A1518	198.641	91.834	-25.976	1.00	76.83	A16S
ATOM	32035	N1	A	A1518	199.463	92.011	-27.026	1.00	76.83	A16S
ATOM	32036	C6	A	A1518	199.449	91.095	-28.022	1.00	76.83	A16S
ATOM	32037	N6	A	A1518	200.274	91.268	-29.063	1.00	76.83	A16S
ATOM	32038	C5	A	A1518	198.560	90.006	-27.892	1.00	76.83	A16S
ATOM	32039	N7	A	A1518	198.303	88.910	-28.704	1.00	76.83	A16S
ATOM	32040	C8	A	A1518	197.384	88.242	-28.051	1.00	76.83	A16S
ATOM	32041	C2*	A	A1518	194.637	89.057	-26.050	1.00	77.59	A16S
ATOM	32042	O2*	A	A1518	194.014	89.120	-24.785	1.00	77.59	A16S
ATOM	32043	C3*	A	A1518	193.881	88.120	-26.975	1.00	77.59	A16S
ATOM	32044	O3*	A	A1518	192.465	88.227	-26.801	1.00	77.59	A16S
ATOM	32045	P	A	A1519	191.571	88.971	-27.920	1.00	73.71	A16S
ATOM	32046	O1P	A	A1519	190.161	88.504	-27.759	1.00	76.95	A16S
ATOM	32047	O2P	A	A1519	192.249	88.843	-29.226	1.00	76.95	A16S
ATOM	32048	O5*	A	A1519	191.629	90.510	-27.536	1.00	73.71	A16S
ATOM	32049	C5*	A	A1519	190.936	90.975	-26.390	1.00	73.71	A16S
ATOM	32050	C4*	A	A1519	191.705	92.082	-25.736	1.00	73.71	A16S
ATOM	32051	O4*	A	A1519	193.104	91.705	-25.618	1.00	73.71	A16S
ATOM	32052	C1*	A	A1519	193.906	92.871	-25.602	1.00	73.71	A16S
ATOM	32053	N9	A	A1519	194.877	92.829	-26.701	1.00	76.95	A16S
ATOM	32054	C4	A	A1519	195.989	93.639	-26.780	1.00	76.95	A16S
ATOM	32055	N3	A	A1519	196.417	94.520	-25.862	1.00	76.95	A16S
ATOM	32056	C2	A	A1519	197.489	95.173	-26.297	1.00	76.95	A16S
ATOM	32057	N1	A	A1519	198.143	95.063	-27.461	1.00	76.95	A16S
ATOM	32058	C6	A	A1519	197.698	94.172	-28.369	1.00	76.95	A16S
ATOM	32059	N6	A	A1519	198.348	94.085	-29.531	1.00	76.95	A16S
ATOM	32060	C5	A	A1519	196.554	93.393	-28.020	1.00	76.95	A16S
ATOM	32061	N7	A	A1519	195.845	92.397	-28.689	1.00	76.95	A16S
ATOM	32062	C8	A	A1519	194.871	92.088	-27.859	1.00	76.95	A16S
ATOM	32063	C2*	A	A1519	192.959	94.059	-25.781	1.00	73.71	A16S
ATOM	32064	O2*	A	A1519	192.609	94.555	-24.500	1.00	73.71	A16S
ATOM	32065	C3*	A	A1519	191.772	93.403	-26.467	1.00	73.71	A16S
ATOM	32066	O3*	A	A1519	190.600	94.162	-26.283	1.00	73.71	A16S
ATOM	32067	P	G	A1520	189.984	94.986	-27.516	1.00	66.06	A16S
ATOM	32068	O1P	G	A1520	189.864	96.412	-27.105	1.00	70.01	A16S
ATOM	32069	O2P	G	A1520	188.793	94.269	-28.009	1.00	70.01	A16S
ATOM	32070	O5*	G	A1520	191.086	94.909	-28.665	1.00	66.06	A16S
ATOM	32071	C5*	G	A1520	192.193	95.832	-28.695	1.00	66.06	A16S
ATOM	32072	C4*	G	A1520	193.218	95.403	-29.726	1.00	66.06	A16S
ATOM	32073	O4*	G	A1520	193.242	93.955	-29.804	1.00	66.06	A16S
ATOM	32074	C1*	G	A1520	193.509	93.555	-31.131	1.00	66.06	A16S
ATOM	32075	N9	G	A1520	192.371	92.783	-31.622	1.00	70.01	A16S
ATOM	32076	C4	G	A1520	192.327	92.022	-32.770	1.00	70.01	A16S
ATOM	32077	N3	G	A1520	193.326	91.875	-33.661	1.00	70.01	A16S
ATOM	32078	C2	G	A1520	192.983	91.076	-34.655	1.00	70.01	A16S
ATOM	32079	N2	G	A1520	193.847	90.837	-35.640	1.00	70.01	A16S
ATOM	32080	N1	G	A1520	191.763	90.454	-34.764	1.00	70.01	A16S
ATOM	32081	C6	G	A1520	190.722	90.582	-33.856	1.00	70.01	A16S
ATOM	32082	O6	G	A1520	189.665	89.959	-34.040	1.00	70.01	A16S
ATOM	32083	C5	G	A1520	191.071	91.459	-32.788	1.00	70.01	A16S
ATOM	32084	N7	G	A1520	190.334	91.874	-31.691	1.00	70.01	A16S
ATOM	32085	C8	G	A1520	191.142	92.656	-31.030	1.00	70.01	A16S
ATOM	32086	C2*	G	A1520	193.778	94.814	-31.947	1.00	66.06	A16S
ATOM	32087	O2*	G	A1520	195.173	95.018	-31.897	1.00	66.06	A16S
ATOM	32088	C3*	G	A1520	193.009	95.867	-31.161	1.00	66.06	A16S
ATOM	32089	O3*	G	A1520	193.569	97.169	-31.342	1.00	66.06	A16S
ATOM	32090	P	G	A1521	193.319	97.972	-32.717	1.00	66.50	A16S
ATOM	32091	O1P	G	A1521	194.084	99.248	-32.636	1.00	82.44	A16S
ATOM	32092	O2P	G	A1521	191.861	98.012	-33.014	1.00	82.44	A16S
ATOM	32093	O5*	G	A1521	193.998	97.054	-33.823	1.00	66.50	A16S
ATOM	32094	C5*	G	A1521	195.429	96.947	-33.915	1.00	66.50	A16S
ATOM	32095	C4*	G	A1521	195.818	96.280	-35.209	1.00	66.50	A16S
ATOM	32096	O4*	G	A1521	195.403	94.890	-35.197	1.00	66.50	A16S
ATOM	32097	C1*	G	A1521	194.965	94.516	-36.493	1.00	66.50	A16S
ATOM	32098	N9	G	A1521	193.574	94.067	-36.392	1.00	82.44	A16S
ATOM	32099	C4	G	A1521	192.906	93.216	-37.252	1.00	82.44	A16S
ATOM	32100	N3	G	A1521	193.414	92.641	-38.361	1.00	82.44	A16S
ATOM	32101	C2	G	A1521	192.539	91.840	-38.946	1.00	82.44	A16S
ATOM	32102	N2	G	A1521	192.888	91.160	-40.039	1.00	82.44	A16S



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ATOM	32103	N1	G	A1521	191.262	91.637	-38.495	1.00	82.44	A16S
ATOM	32104	C6	G	A1521	190.713	92.223	-37.363	1.00	82.44	A16S
ATOM	32105	O6	G	A1521	189.546	91.970	-37.040	1.00	82.44	A16S
ATOM	32106	C5	G	A1521	191.645	93.072	-36.713	1.00	82.44	A16S
ATOM	32107	N7	G	A1521	191.516	93.820	-35.553	1.00	82.44	A16S
ATOM	32108	C8	G	A1521	192.678	94.396	-35.406	1.00	82.44	A16S
ATOM	32109	C2*	G	A1521	195.170	95.723	-37.417	1.00	66.50	A16S
ATOM	32110	O2*	G	A1521	196.440	95.667	-38.031	1.00	66.50	A16S
ATOM	32111	C3*	G	A1521	195.150	96.871	-36.433	1.00	66.50	A16S
ATOM	32112	O3*	G	A1521	195.866	97.970	-36.936	1.00	66.50	A16S
ATOM	32113	P	U	A1522	195.069	99.124	-37.695	1.00	62.00	A16S
ATOM	32114	O1P	U	A1522	195.985	100.271	-37.920	1.00	66.51	A16S
ATOM	32115	O2P	U	A1522	193.798	99.329	-36.942	1.00	66.51	A16S
ATOM	32116	O5*	U	A1522	194.708	98.466	-39.099	1.00	62.00	A16S
ATOM	32117	C5*	U	A1522	195.746	98.093	-40.003	1.00	62.00	A16S
ATOM	32118	C4*	U	A1522	195.209	97.199	-41.088	1.00	62.00	A16S
ATOM	32119	O4*	U	A1522	194.797	95.918	-40.540	1.00	62.00	A16S
ATOM	32120	C1*	U	A1522	193.733	95.397	-41.313	1.00	62.00	A16S
ATOM	32121	N1	U	A1522	192.556	95.259	-40.452	1.00	66.51	A16S
ATOM	32122	C6	U	A1522	192.445	95.948	-39.275	1.00	66.51	A16S
ATOM	32123	C2	U	A1522	191.546	94.444	-40.892	1.00	66.51	A16S
ATOM	32124	O2	U	A1522	191.628	93.790	-41.903	1.00	66.51	A16S
ATOM	32125	N3	U	A1522	190.427	94.434	-40.109	1.00	66.51	A16S
ATOM	32126	C4	U	A1522	190.219	95.152	-38.954	1.00	66.51	A16S
ATOM	32127	O4	U	A1522	189.071	95.268	-38.525	1.00	66.51	A16S
ATOM	32128	C5	U	A1522	191.343	95.925	-38.531	1.00	66.51	A16S
ATOM	32129	C2*	U	A1522	193.442	96.399	-42.431	1.00	62.00	A16S
ATOM	32130	O2*	U	A1522	194.158	96.017	-43.583	1.00	62.00	A16S
ATOM	32131	C3*	U	A1522	193.994	97.691	-41.848	1.00	62.00	A16S
ATOM	32132	O3*	U	A1522	194.346	98.601	-42.875	1.00	62.00	A16S
ATOM	32133	P	G	A1523	193.220	99.570	-43.475	1.00	53.73	A16S
ATOM	32134	O1P	G	A1523	193.818	100.530	-44.447	1.00	67.20	A16S
ATOM	32135	O2P	G	A1523	192.490	100.084	-42.302	1.00	67.20	A16S
ATOM	32136	O5*	G	A1523	192.248	98.566	-44.249	1.00	53.73	A16S
ATOM	32137	C5*	G	A1523	192.740	97.801	-45.367	1.00	53.73	A16S
ATOM	32138	C4*	G	A1523	191.625	97.044	-46.043	1.00	53.73	A16S
ATOM	32139	O4*	G	A1523	191.171	95.948	-45.223	1.00	53.73	A16S
ATOM	32140	C1*	G	A1523	189.809	95.685	-45.502	1.00	53.73	A16S
ATOM	32141	N9	G	A1523	189.060	95.724	-44.245	1.00	67.20	A16S
ATOM	32142	C4	G	A1523	187.826	95.154	-44.001	1.00	67.20	A16S
ATOM	32143	N3	G	A1523	187.085	94.460	-44.883	1.00	67.20	A16S
ATOM	32144	C2	G	A1523	185.964	94.025	-44.347	1.00	67.20	A16S
ATOM	32145	N2	G	A1523	185.116	93.288	-45.076	1.00	67.20	A16S
ATOM	32146	N1	G	A1523	185.591	94.269	-43.060	1.00	67.20	A16S
ATOM	32147	C6	G	A1523	186.331	94.984	-42.136	1.00	67.20	A16S
ATOM	32148	O6	G	A1523	185.894	95.148	-40.994	1.00	67.20	A16S
ATOM	32149	C5	G	A1523	187.543	95.442	-42.685	1.00	67.20	A16S
ATOM	32150	N7	G	A1523	188.569	96.178	-42.107	1.00	67.20	A16S
ATOM	32151	C8	G	A1523	189.444	96.324	-43.067	1.00	67.20	A16S
ATOM	32152	C2*	G	A1523	189.351	96.700	-46.552	1.00	53.73	A16S
ATOM	32153	O2*	G	A1523	189.472	96.118	-47.833	1.00	53.73	A16S
ATOM	32154	C3*	G	A1523	190.369	97.811	-46.375	1.00	53.73	A16S
ATOM	32155	O3*	G	A1523	190.550	98.515	-47.575	1.00	53.73	A16S
ATOM	32156	P	C	A1524	190.066	100.040	-47.673	1.00	52.29	A16S
ATOM	32157	O1P	C	A1524	190.645	100.604	-48.914	1.00	74.75	A16S
ATOM	32158	O2P	C	A1524	190.360	100.684	-46.361	1.00	74.75	A16S
ATOM	32159	O5*	C	A1524	188.496	99.909	-47.903	1.00	52.29	A16S
ATOM	32160	C5*	C	A1524	188.012	99.066	-48.959	1.00	52.29	A16S
ATOM	32161	C4*	C	A1524	186.545	98.762	-48.786	1.00	52.29	A16S
ATOM	32162	O4*	C	A1524	186.327	97.721	-47.809	1.00	52.29	A16S
ATOM	32163	C1*	C	A1524	185.054	97.900	-47.220	1.00	52.29	A16S
ATOM	32164	N1	C	A1524	185.214	97.980	-45.760	1.00	74.75	A16S
ATOM	32165	C6	C	A1524	186.402	98.346	-45.200	1.00	74.75	A16S
ATOM	32166	C2	C	A1524	184.125	97.669	-44.950	1.00	74.75	A16S
ATOM	32167	O2	C	A1524	183.055	97.379	-45.479	1.00	74.75	A16S
ATOM	32168	N3	C	A1524	184.261	97.705	-43.615	1.00	74.75	A16S
ATOM	32169	C4	C	A1524	185.422	98.061	-43.079	1.00	74.75	A16S
ATOM	32170	N4	C	A1524	185.512	98.095	-41.750	1.00	74.75	A16S
ATOM	32171	C5	C	A1524	186.547	98.402	-43.878	1.00	74.75	A16S
ATOM	32172	C2*	C	A1524	184.420	99.156	-47.824	1.00	52.29	A16S
ATOM	32173	O2*	C	A1524	183.518	98.778	-48.843	1.00	52.29	A16S
ATOM	32174	C3*	C	A1524	185.638	99.901	-48.361	1.00	52.29	A16S
ATOM	32175	O3*	C	A1524	185.315	100.744	-49.465	1.00	52.29	A16S
ATOM	32176	P	G	A1525	185.263	102.343	-49.261	1.00	61.07	A16S
ATOM	32177	O1P	G	A1525	185.096	102.968	-50.607	1.00	67.88	A16S
ATOM	32178	O2P	G	A1525	186.399	102.776	-48.386	1.00	67.88	A16S
ATOM	32179	O5*	G	A1525	183.881	102.543	-48.500	1.00	61.07	A16S



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ATOM	32180	C5*	G	A1525	182.665	102.304	-49.205	1.00	61.07	A16S
ATOM	32181	C4*	G	A1525	181.504	102.201	-48.262	1.00	61.07	A16S
ATOM	32182	O4*	G	A1525	181.616	101.012	-47.455	1.00	61.07	A16S
ATOM	32183	C1*	G	A1525	180.936	101.219	-46.235	1.00	61.07	A16S
ATOM	32184	N9	G	A1525	181.897	101.134	-45.150	1.00	67.88	A16S
ATOM	32185	C4	G	A1525	181.624	100.778	-43.858	1.00	67.88	A16S
ATOM	32186	N3	G	A1525	180.427	100.397	-43.381	1.00	67.88	A16S
ATOM	32187	C2	G	A1525	180.484	100.103	-42.097	1.00	67.88	A16S
ATOM	32188	N2	G	A1525	179.389	99.645	-41.463	1.00	67.88	A16S
ATOM	32189	N1	G	A1525	181.619	100.217	-41.335	1.00	67.88	A16S
ATOM	32190	C6	G	A1525	182.854	100.624	-41.808	1.00	67.88	A16S
ATOM	32191	O6	G	A1525	183.808	100.708	-41.040	1.00	67.88	A16S
ATOM	32192	C5	G	A1525	182.815	100.902	-43.187	1.00	67.88	A16S
ATOM	32193	N7	G	A1525	183.823	101.308	-44.046	1.00	67.88	A16S
ATOM	32194	C8	G	A1525	183.231	101.427	-45.200	1.00	67.88	A16S
ATOM	32195	C2*	G	A1525	180.360	102.629	-46.267	1.00	61.07	A16S
ATOM	32196	O2*	G	A1525	179.022	102.571	-46.744	1.00	61.07	A16S
ATOM	32197	C3*	G	A1525	181.304	103.302	-47.244	1.00	61.07	A16S
ATOM	32198	O3*	G	A1525	180.730	104.456	-47.804	1.00	61.07	A16S
ATOM	32199	P	G	A1526	181.004	105.880	-47.115	1.00	65.81	A16S
ATOM	32200	O1P	G	A1526	180.424	106.901	-48.040	1.00	70.09	A16S
ATOM	32201	O2P	G	A1526	182.437	105.967	-46.710	1.00	70.09	A16S
ATOM	32202	O5*	G	A1526	180.106	105.840	-45.803	1.00	65.81	A16S
ATOM	32203	C5*	G	A1526	178.703	105.605	-45.910	1.00	65.81	A16S
ATOM	32204	C4*	G	A1526	178.129	105.263	-44.567	1.00	65.81	A16S
ATOM	32205	O4*	G	A1526	178.762	104.067	-44.054	1.00	65.81	A16S
ATOM	32206	C1*	G	A1526	178.812	104.122	-42.642	1.00	65.81	A16S
ATOM	32207	N9	G	A1526	180.208	104.051	-42.222	1.00	70.09	A16S
ATOM	32208	C4	G	A1526	180.684	103.973	-40.930	1.00	70.09	A16S
ATOM	32209	N3	G	A1526	179.942	103.950	-39.808	1.00	70.09	A16S
ATOM	32210	C2	G	A1526	180.690	103.899	-38.721	1.00	70.09	A16S
ATOM	32211	N2	G	A1526	180.119	103.879	-37.509	1.00	70.09	A16S
ATOM	32212	N1	G	A1526	182.052	103.863	-38.737	1.00	70.09	A16S
ATOM	32213	C6	G	A1526	182.836	103.878	-39.878	1.00	70.09	A16S
ATOM	32214	O6	G	A1526	184.064	103.841	-39.780	1.00	70.09	A16S
ATOM	32215	C5	G	A1526	182.051	103.941	-41.048	1.00	70.09	A16S
ATOM	32216	N7	G	A1526	182.433	103.993	-42.380	1.00	70.09	A16S
ATOM	32217	C8	G	A1526	181.310	104.056	-43.037	1.00	70.09	A16S
ATOM	32218	C2*	G	A1526	178.136	105.424	-42.224	1.00	65.81	A16S
ATOM	32219	O2*	G	A1526	176.756	105.161	-42.032	1.00	65.81	A16S
ATOM	32220	C3*	G	A1526	178.325	106.277	-43.462	1.00	65.81	A16S
ATOM	32221	O3*	G	A1526	177.350	107.295	-43.508	1.00	65.81	A16S
ATOM	32222	P	C	A1527	177.707	108.745	-42.924	1.00	61.66	A16S
ATOM	32223	O1P	C	A1527	176.676	109.712	-43.411	1.00	57.38	A16S
ATOM	32224	O2P	C	A1527	179.141	108.992	-43.216	1.00	57.38	A16S
ATOM	32225	O5*	C	A1527	177.610	108.565	-41.346	1.00	61.66	A16S
ATOM	32226	C5*	C	A1527	176.368	108.249	-40.702	1.00	61.66	A16S
ATOM	32227	C4*	C	A1527	176.557	108.269	-39.210	1.00	61.66	A16S
ATOM	32228	O4*	C	A1527	177.378	107.146	-38.805	1.00	61.66	A16S
ATOM	32229	C1*	C	A1527	178.263	107.548	-37.770	1.00	61.66	A16S
ATOM	32230	N1	C	A1527	179.652	107.385	-38.237	1.00	57.38	A16S
ATOM	32231	C6	C	A1527	179.960	107.377	-39.570	1.00	57.38	A16S
ATOM	32232	C2	C	A1527	180.660	107.239	-37.284	1.00	57.38	A16S
ATOM	32233	O2	C	A1527	180.357	107.271	-36.082	1.00	57.38	A16S
ATOM	32234	N3	C	A1527	181.936	107.075	-37.693	1.00	57.38	A16S
ATOM	32235	C4	C	A1527	182.220	107.063	-38.991	1.00	57.38	A16S
ATOM	32236	N4	C	A1527	183.479	106.896	-39.340	1.00	57.38	A16S
ATOM	32237	C5	C	A1527	181.219	107.222	-39.984	1.00	57.38	A16S
ATOM	32238	C2*	C	A1527	177.944	108.999	-37.420	1.00	61.66	A16S
ATOM	32239	O2*	C	A1527	177.039	108.998	-36.341	1.00	61.66	A16S
ATOM	32240	C3*	C	A1527	177.305	109.490	-38.708	1.00	61.66	A16S
ATOM	32241	O3*	C	A1527	176.414	110.559	-38.491	1.00	61.66	A16S
ATOM	32242	P	U	A1528	176.988	112.048	-38.379	1.00	63.38	A16S
ATOM	32243	O1P	U	A1528	175.783	112.905	-38.372	1.00	70.01	A16S
ATOM	32244	O2P	U	A1528	178.020	112.253	-39.422	1.00	70.01	A16S
ATOM	32245	O5*	U	A1528	177.690	112.077	-36.948	1.00	63.38	A16S
ATOM	32246	C5*	U	A1528	176.944	111.770	-35.747	1.00	63.38	A16S
ATOM	32247	C4*	U	A1528	177.787	112.047	-34.526	1.00	63.38	A16S
ATOM	32248	O4*	U	A1528	178.967	111.203	-34.570	1.00	63.38	A16S
ATOM	32249	C1*	U	A1528	180.149	111.993	-34.589	1.00	63.38	A16S
ATOM	32250	N1	U	A1528	181.063	111.393	-35.571	1.00	70.01	A16S
ATOM	32251	C6	U	A1528	180.711	111.308	-36.896	1.00	70.01	A16S
ATOM	32252	C2	U	A1528	182.282	110.898	-35.124	1.00	70.01	A16S
ATOM	32253	O2	U	A1528	182.647	110.950	-33.956	1.00	70.01	A16S
ATOM	32254	N3	U	A1528	183.061	110.330	-36.100	1.00	70.01	A16S
ATOM	32255	C4	U	A1528	182.758	110.208	-37.440	1.00	70.01	A16S
ATOM	32256	O4	U	A1528	183.560	109.655	-38.194	1.00	70.01	A16S



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ATOM	32257	C5	U	A1528	181.492	110.747	-37.816	1.00	70.01	A16S
ATOM	32258	C2*	U	A1528	179.755	113.425	-34.945	1.00	63.38	A16S
ATOM	32259	O2*	U	A1528	180.603	114.313	-34.268	1.00	63.38	A16S
ATOM	32260	C3*	U	A1528	178.317	113.466	-34.454	1.00	63.38	A16S
ATOM	32261	O3*	U	A1528	177.602	114.556	-33.838	1.00	63.38	A16S
ATOM	32262	P	G	A1529	177.717	114.825	-32.247	1.00	64.39	A16S
ATOM	32263	O1P	G	A1529	176.595	115.751	-31.926	1.00	57.49	A16S
ATOM	32264	O2P	G	A1529	179.108	115.198	-31.860	1.00	57.49	A16S
ATOM	32265	O5*	G	A1529	177.402	113.415	-31.576	1.00	64.39	A16S
ATOM	32266	C5*	G	A1529	177.441	113.298	-30.162	1.00	64.39	A16S
ATOM	32267	C4*	G	A1529	178.542	112.370	-29.736	1.00	64.39	A16S
ATOM	32268	O4*	G	A1529	177.967	111.097	-29.363	1.00	64.39	A16S
ATOM	32269	C1*	G	A1529	178.682	110.074	-29.986	1.00	64.39	A16S
ATOM	32270	N9	G	A1529	177.800	108.922	-30.175	1.00	57.49	A16S
ATOM	32271	C4	G	A1529	176.739	108.802	-31.040	1.00	57.49	A16S
ATOM	32272	N3	G	A1529	176.272	109.761	-31.855	1.00	57.49	A16S
ATOM	32273	C2	G	A1529	175.267	109.327	-32.598	1.00	57.49	A16S
ATOM	32274	N2	G	A1529	174.674	110.166	-33.466	1.00	57.49	A16S
ATOM	32275	N1	G	A1529	174.769	108.047	-32.547	1.00	57.49	A16S
ATOM	32276	C6	G	A1529	175.245	107.042	-31.721	1.00	57.49	A16S
ATOM	32277	O6	G	A1529	174.746	105.914	-31.773	1.00	57.49	A16S
ATOM	32278	C5	G	A1529	176.306	107.501	-30.908	1.00	57.49	A16S
ATOM	32279	N7	G	A1529	177.044	106.834	-29.948	1.00	57.49	A16S
ATOM	32280	C8	G	A1529	177.909	107.715	-29.534	1.00	57.49	A16S
ATOM	32281	C2*	G	A1529	179.312	110.697	-31.235	1.00	64.39	A16S
ATOM	32282	O2*	G	A1529	180.461	109.958	-31.611	1.00	64.39	A16S
ATOM	32283	C3*	G	A1529	179.663	112.105	-30.738	1.00	64.39	A16S
ATOM	32284	O3*	G	A1529	180.956	112.041	-30.095	1.00	64.39	A16S
ATOM	32285	P	G	A1530	181.685	113.383	-29.561	1.00	85.86	A16S
ATOM	32286	O1P	G	A1530	183.043	112.962	-29.106	1.00	97.10	A16S
ATOM	32287	O2P	G	A1530	180.789	114.100	-28.622	1.00	97.10	A16S
ATOM	32288	O5*	G	A1530	181.848	114.321	-30.832	1.00	85.86	A16S
ATOM	32289	C5*	G	A1530	182.522	113.850	-31.992	1.00	85.86	A16S
ATOM	32290	C4*	G	A1530	184.021	113.936	-31.811	1.00	85.86	A16S
ATOM	32291	O4*	G	A1530	184.580	112.896	-32.636	1.00	85.86	A16S
ATOM	32292	C1*	G	A1530	185.781	113.343	-33.209	1.00	85.86	A16S
ATOM	32293	N9	G	A1530	185.633	113.322	-34.655	1.00	97.10	A16S
ATOM	32294	C4	G	A1530	186.653	113.155	-35.536	1.00	97.10	A16S
ATOM	32295	N3	G	A1530	187.948	113.001	-35.205	1.00	97.10	A16S
ATOM	32296	C2	G	A1530	188.708	112.857	-36.257	1.00	97.10	A16S
ATOM	32297	N2	G	A1530	190.021	112.702	-36.091	1.00	97.10	A16S
ATOM	32298	N1	G	A1530	188.236	112.859	-37.549	1.00	97.10	A16S
ATOM	32299	C6	G	A1530	186.901	113.022	-37.918	1.00	97.10	A16S
ATOM	32300	O6	G	A1530	186.577	113.019	-39.120	1.00	97.10	A16S
ATOM	32301	C5	G	A1530	186.072	113.179	-36.783	1.00	97.10	A16S
ATOM	32302	N7	G	A1530	184.697	113.367	-36.684	1.00	97.10	A16S
ATOM	32303	C8	G	A1530	184.482	113.449	-35.401	1.00	97.10	A16S
ATOM	32304	C2*	G	A1530	186.112	114.719	-32.642	1.00	85.86	A16S
ATOM	32305	O2*	G	A1530	186.979	114.510	-31.549	1.00	85.86	A16S
ATOM	32306	C3*	G	A1530	184.739	115.228	-32.221	1.00	85.86	A16S
ATOM	32307	O3*	G	A1530	184.868	116.174	-31.140	1.00	85.86	A16S
ATOM	32308	P	A	A1531	185.397	117.677	-31.429	1.00122.62	A16S	
ATOM	32309	O1P	A	A1531	184.660	118.579	-30.505	1.00105.36	A16S	
ATOM	32310	O2P	A	A1531	185.393	117.957	-32.893	1.00105.36	A16S	
ATOM	32311	O5*	A	A1531	186.918	117.666	-30.956	1.00122.62	A16S	
ATOM	32312	C5*	A	A1531	187.286	117.650	-29.553	1.00122.62	A16S	
ATOM	32313	C4*	A	A1531	188.801	117.704	-29.404	1.00122.62	A16S	
ATOM	32314	O4*	A	A1531	189.371	116.563	-30.107	1.00122.62	A16S	
ATOM	32315	C1*	A	A1531	190.532	116.961	-30.827	1.00122.62	A16S	
ATOM	32316	N9	A	A1531	190.218	116.896	-32.262	1.00105.36	A16S	
ATOM	32317	C4	A	A1531	191.093	116.647	-33.292	1.00105.36	A16S	
ATOM	32318	N3	A	A1531	192.418	116.408	-33.205	1.00105.36	A16S	
ATOM	32319	C2	A	A1531	192.939	116.212	-34.417	1.00105.36	A16S	
ATOM	32320	N1	A	A1531	192.330	116.226	-35.620	1.00105.36	A16S	
ATOM	32321	C6	A	A1531	190.995	116.472	-35.671	1.00105.36	A16S	
ATOM	32322	N6	A	A1531	190.378	116.489	-36.864	1.00105.36	A16S	
ATOM	32323	C5	A	A1531	190.328	116.697	-34.455	1.00105.36	A16S	
ATOM	32324	N7	A	A1531	189.000	116.975	-34.163	1.00105.36	A16S	
ATOM	32325	C8	A	A1531	188.984	117.084	-32.859	1.00105.36	A16S	
ATOM	32326	C2*	A	A1531	190.870	118.384	-30.382	1.00122.62	A16S	
ATOM	32327	O2*	A	A1531	191.766	118.353	-29.284	1.00122.62	A16S	
ATOM	32328	C3*	A	A1531	189.490	118.921	-30.018	1.00122.62	A16S	
ATOM	32329	O3*	A	A1531	189.567	120.043	-29.141	1.00122.62	A16S	
ATOM	32330	P	U	A1532	189.668	121.527	-29.759	1.00132.89	A16S	
ATOM	32331	O1P	U	A1532	190.043	122.453	-28.660	1.00138.67	A16S	
ATOM	32332	O2P	U	A1532	188.439	121.789	-30.553	1.00138.67	A16S	
ATOM	32333	O5*	U	A1532	190.891	121.441	-30.776	1.00132.89	A16S	



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ATOM	32334	C5*	U	A1532	192.256	121.570	-30.329	1.00132.89	A16S	
ATOM	32335	C4*	U	A1532	193.171	121.715	-31.522	1.00132.89	A16S	
ATOM	32336	O4*	U	A1532	193.039	120.517	-32.337	1.00132.89	A16S	
ATOM	32337	C1*	U	A1532	193.046	120.864	-33.717	1.00132.89	A16S	
ATOM	32338	N1	U	A1532	191.715	120.566	-34.284	1.00138.67	A16S	
ATOM	32339	C6	U	A1532	190.556	120.814	-33.568	1.00138.67	A16S	
ATOM	32340	C2	U	A1532	191.650	120.044	-35.571	1.00138.67	A16S	
ATOM	32341	O2	U	A1532	192.638	119.788	-36.242	1.00138.67	A16S	
ATOM	32342	N3	U	A1532	190.379	119.828	-36.041	1.00138.67	A16S	
ATOM	32343	C4	U	A1532	189.197	120.060	-35.377	1.00138.67	A16S	
ATOM	32344	O4	U	A1532	188.139	119.791	-35.931	1.00138.67	A16S	
ATOM	32345	C5	U	A1532	189.339	120.585	-34.060	1.00138.67	A16S	
ATOM	32346	C2*	U	A1532	193.363	122.357	-33.808	1.00132.89	A16S	
ATOM	32347	O2*	U	A1532	194.756	122.546	-33.982	1.00132.89	A16S	
ATOM	32348	C3*	U	A1532	192.826	122.860	-32.472	1.00132.89	A16S	
ATOM	32349	O3*	U	A1532	193.344	124.139	-32.085	1.00132.89	A16S	
ATOM	32350	P	C	A1533	192.566	125.480	-32.532	1.00188.38	A16S	
ATOM	32351	O1P	C	A1533	191.133	125.314	-32.173	1.00197.77	A16S	
ATOM	32352	O2P	C	A1533	193.316	126.647	-32.009	1.00197.77	A16S	
ATOM	32353	O5*	C	A1533	192.708	125.474	-34.122	1.00188.38	A16S	
ATOM	32354	C5*	C	A1533	191.551	125.458	-35.000	1.00188.38	A16S	
ATOM	32355	C4*	C	A1533	191.982	125.715	-36.433	1.00188.38	A16S	
ATOM	32356	O4*	C	A1533	192.725	126.967	-36.455	1.00188.38	A16S	
ATOM	32357	C1*	C	A1533	193.926	126.812	-37.199	1.00188.38	A16S	
ATOM	32358	N1	C	A1533	195.059	126.897	-36.233	1.00197.77	A16S	
ATOM	32359	C6	C	A1533	194.933	127.674	-35.111	1.00197.77	A16S	
ATOM	32360	C2	C	A1533	196.267	126.164	-36.458	1.00197.77	A16S	
ATOM	32361	O2	C	A1533	196.398	125.477	-37.491	1.00197.77	A16S	
ATOM	32362	N3	C	A1533	197.256	126.237	-35.534	1.00197.77	A16S	
ATOM	32363	C4	C	A1533	197.099	126.988	-34.438	1.00197.77	A16S	
ATOM	32364	N4	C	A1533	198.094	127.012	-33.552	1.00197.77	A16S	
ATOM	32365	C5	C	A1533	195.913	127.745	-34.200	1.00197.77	A16S	
ATOM	32366	C2*	C	A1533	193.801	125.490	-37.966	1.00188.38	A16S	
ATOM	32367	O2*	C	A1533	193.211	125.706	-39.234	1.00188.38	A16S	
ATOM	32368	C3*	C	A1533	192.928	124.672	-37.025	1.00188.38	A16S	
ATOM	32369	O3*	C	A1533	192.252	123.609	-37.705	1.00188.38	A16S	
ATOM	32370	P	A	A1534	193.040	122.243	-38.024	0.00125.45	A16S	
ATOM	32371	O1P	A	A1534	192.069	121.279	-38.602	0.00125.45	A16S	
ATOM	32372	O2P	A	A1534	193.814	121.870	-36.813	0.00125.45	A16S	
ATOM	32373	O5*	A	A1534	194.095	122.640	-39.151	0.00125.45	A16S	
ATOM	32374	C5*	A	A1534	193.671	123.086	-40.454	0.00125.45	A16S	
ATOM	32375	C4*	A	A1534	194.872	123.288	-41.351	0.00125.45	A16S	
ATOM	32376	O4*	A	A1534	195.770	124.253	-40.744	0.00125.45	A16S	
ATOM	32377	C1*	A	A1534	197.115	123.909	-41.042	0.00125.45	A16S	
ATOM	32378	N9	A	A1534	197.833	123.726	-39.779	0.00125.45	A16S	
ATOM	32379	C4	A	A1534	198.992	124.362	-39.400	0.00125.45	A16S	
ATOM	32380	N3	A	A1534	199.694	125.270	-40.102	0.00125.45	A16S	
ATOM	32381	C2	A	A1534	200.763	125.669	-39.416	0.00125.45	A16S	
ATOM	32382	N1	A	A1534	201.180	125.293	-38.201	0.00125.45	A16S	
ATOM	32383	C6	A	A1534	200.453	124.380	-37.522	0.00125.45	A16S	
ATOM	32384	N6	A	A1534	200.868	124.005	-36.310	0.00125.45	A16S	
ATOM	32385	C5	A	A1534	199.294	123.877	-38.140	0.00125.45	A16S	
ATOM	32386	N7	A	A1534	198.345	122.951	-37.729	0.00125.45	A16S	
ATOM	32387	C8	A	A1534	197.503	122.897	-38.733	0.00125.45	A16S	
ATOM	32388	C2*	A	A1534	197.098	122.656	-41.924	0.00125.45	A16S	
ATOM	32389	O2*	A	A1534	197.188	123.050	-43.279	0.00125.45	A16S	
ATOM	32390	C3*	A	A1534	195.741	122.061	-41.572	0.00125.45	A16S	
ATOM	32391	O3*	A	A1534	195.197	120.996	-42.361	0.00125.45	A16S	
TER	32391	A		A1534					A16S	
ATOM	32392	O5*	UNK	X	1	210.354	110.817	-34.393	1.00145.71	XMES
ATOM	32393	C5*	UNK	X	1	209.337	111.263	-35.294	1.00145.71	XMES
ATOM	32394	C4*	UNK	X	1	208.489	110.134	-35.840	1.00145.71	XMES
ATOM	32395	O4*	UNK	X	1	209.301	109.289	-36.698	1.00145.71	XMES
ATOM	32396	C1*	UNK	X	1	208.897	107.929	-36.564	1.00145.71	XMES
ATOM	32397	N1	UNK	X	1	210.056	107.123	-36.096	1.00112.60	XMES
ATOM	32398	C6	UNK	X	1	211.225	107.731	-35.712	1.00112.60	XMES
ATOM	32399	C2	UNK	X	1	209.941	105.707	-36.041	1.00112.60	XMES
ATOM	32400	O2	UNK	X	1	208.873	105.161	-36.404	1.00112.60	XMES
ATOM	32401	N3	UNK	X	1	210.998	104.979	-35.593	1.00112.60	XMES
ATOM	32402	C4	UNK	X	1	212.128	105.595	-35.218	1.00112.60	XMES
ATOM	32403	N4	UNK	X	1	213.142	104.837	-34.777	1.00112.60	XMES
ATOM	32404	C5	UNK	X	1	212.271	107.015	-35.274	1.00112.60	XMES
ATOM	32405	C2*	UNK	X	1	207.705	107.896	-35.603	1.00145.71	XMES
ATOM	32406	O2*	UNK	X	1	206.494	107.869	-36.338	1.00145.71	XMES
ATOM	32407	C3*	UNK	X	1	207.912	109.180	-34.804	1.00145.71	XMES
ATOM	32408	O3*	UNK	X	1	206.714	109.662	-34.196	1.00145.71	XMES
ATOM	32409	P	UNK	X	2	206.516	109.507	-32.603	1.00176.63	XMES



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ATOM	32410	O1P	UNK	X	2	205.238	110.165	-32.214	1.00134.34	XMES
ATOM	32411	O2P	UNK	X	2	207.785	109.942	-31.967	1.00134.34	XMES
ATOM	32412	O5*	UNK	X	2	206.363	107.934	-32.380	1.00176.63	XMES
ATOM	32413	C5*	UNK	X	2	205.433	107.156	-33.168	1.00176.63	XMES
ATOM	32414	C4*	UNK	X	2	205.747	105.678	-33.056	1.00176.63	XMES
ATOM	32415	O4*	UNK	X	2	207.073	105.418	-33.583	1.00176.63	XMES
ATOM	32416	C1*	UNK	X	2	207.695	104.390	-32.829	1.00176.63	XMES
ATOM	32417	N1	UNK	X	2	208.944	104.917	-32.251	1.00134.34	XMES
ATOM	32418	C6	UNK	X	2	209.272	106.256	-32.327	1.00134.34	XMES
ATOM	32419	C2	UNK	X	2	209.799	104.015	-31.634	1.00134.34	XMES
ATOM	32420	O2	UNK	X	2	209.534	102.833	-31.506	1.00134.34	XMES
ATOM	32421	N3	UNK	X	2	210.974	104.553	-31.163	1.00134.34	XMES
ATOM	32422	C4	UNK	X	2	211.371	105.874	-31.229	1.00134.34	XMES
ATOM	32423	O4	UNK	X	2	212.486	106.192	-30.811	1.00134.34	XMES
ATOM	32424	C5	UNK	X	2	210.423	106.751	-31.849	1.00134.34	XMES
ATOM	32425	C2*	UNK	X	2	206.693	103.901	-31.783	1.00176.63	XMES
ATOM	32426	O2*	UNK	X	2	206.020	102.756	-32.272	1.00176.63	XMES
ATOM	32427	C3*	UNK	X	2	205.779	105.110	-31.646	1.00176.63	XMES
ATOM	32428	O3*	UNK	X	2	204.486	104.735	-31.201	1.00176.63	XMES
ATOM	32429	P	UNK	X	3	203.904	105.370	-29.846	1.00168.95	XMES
ATOM	32430	O1P	UNK	X	3	202.747	104.513	-29.425	1.00111.51	XMES
ATOM	32431	O2P	UNK	X	3	203.705	106.834	-30.078	1.00111.51	XMES
ATOM	32432	O5*	UNK	X	3	205.102	105.235	-28.800	1.00168.95	XMES
ATOM	32433	C5*	UNK	X	3	205.593	103.948	-28.370	1.00168.95	XMES
ATOM	32434	C4*	UNK	X	3	206.772	104.123	-27.434	1.00168.95	XMES
ATOM	32435	O4*	UNK	X	3	207.903	104.656	-28.163	1.00168.95	XMES
ATOM	32436	C1*	UNK	X	3	208.642	105.522	-27.325	1.00168.95	XMES
ATOM	32437	N1	UNK	X	3	208.794	106.812	-28.015	1.00111.51	XMES
ATOM	32438	C6	UNK	X	3	207.707	107.505	-28.508	1.00111.51	XMES
ATOM	32439	C2	UNK	X	3	210.086	107.304	-28.176	1.00111.51	XMES
ATOM	32440	O2	UNK	X	3	211.079	106.739	-27.740	1.00111.51	XMES
ATOM	32441	N3	UNK	X	3	210.175	108.484	-28.869	1.00111.51	XMES
ATOM	32442	C4	UNK	X	3	209.137	109.213	-29.407	1.00111.51	XMES
ATOM	32443	O4	UNK	X	3	209.394	110.226	-30.064	1.00111.51	XMES
ATOM	32444	C5	UNK	X	3	207.830	108.655	-29.181	1.00111.51	XMES
ATOM	32445	C2*	UNK	X	3	207.968	105.564	-25.950	1.00168.95	XMES
ATOM	32446	O2*	UNK	X	3	208.662	104.693	-25.081	1.00168.95	XMES
ATOM	32447	C3*	UNK	X	3	206.554	105.083	-26.273	1.00168.95	XMES
ATOM	32448	O3*	UNK	X	3	205.963	104.388	-25.177	1.00168.95	XMES
ATOM	32449	P	U	X	4	204.582	104.912	-24.541	1.00 87.89	XMES
ATOM	32450	O1P	U	X	4	203.616	105.123	-25.640	1.00 79.28	XMES
ATOM	32451	O2P	U	X	4	204.915	106.042	-23.628	1.00 79.28	XMES
ATOM	32452	O5*	U	X	4	204.063	103.659	-23.707	1.00 87.89	XMES
ATOM	32453	C5*	U	X	4	203.590	102.488	-24.394	1.00 87.89	XMES
ATOM	32454	C4*	U	X	4	203.893	101.242	-23.600	1.00 87.89	XMES
ATOM	32455	O4*	U	X	4	205.322	100.991	-23.572	1.00 87.89	XMES
ATOM	32456	C1*	U	X	4	205.680	100.437	-22.314	1.00 87.89	XMES
ATOM	32457	N1	U	X	4	206.611	101.349	-21.630	1.00 79.28	XMES
ATOM	32458	C6	U	X	4	206.765	102.658	-22.029	1.00 79.28	XMES
ATOM	32459	C2	U	X	4	207.317	100.849	-20.548	1.00 79.28	XMES
ATOM	32460	O2	U	X	4	207.220	99.686	-20.169	1.00 79.28	XMES
ATOM	32461	N3	U	X	4	208.135	101.761	-19.921	1.00 79.28	XMES
ATOM	32462	C4	U	X	4	208.316	103.089	-20.259	1.00 79.28	XMES
ATOM	32463	O4	U	X	4	209.050	103.801	-19.568	1.00 79.28	XMES
ATOM	32464	C5	U	X	4	207.568	103.519	-21.397	1.00 79.28	XMES
ATOM	32465	C2*	U	X	4	204.399	100.265	-21.498	1.00 87.89	XMES
ATOM	32466	O2*	U	X	4	203.948	98.935	-21.635	1.00 87.89	XMES
ATOM	32467	C3*	U	X	4	203.482	101.297	-22.142	1.00 87.89	XMES
ATOM	32468	O3*	U	X	4	202.105	100.998	-21.986	1.00 87.89	XMES
ATOM	32469	P	C	X	5	201.245	101.765	-20.863	1.00 86.40	XMES
ATOM	32470	O1P	C	X	5	199.839	101.268	-20.977	1.00 68.78	XMES
ATOM	32471	O2P	C	X	5	201.524	103.223	-20.987	1.00 68.78	XMES
ATOM	32472	O5*	C	X	5	201.835	101.206	-19.493	1.00 86.40	XMES
ATOM	32473	C5*	C	X	5	201.699	99.812	-19.179	1.00 86.40	XMES
ATOM	32474	C4*	C	X	5	202.538	99.441	-17.987	1.00 86.40	XMES
ATOM	32475	O4*	C	X	5	203.926	99.762	-18.248	1.00 86.40	XMES
ATOM	32476	C1*	C	X	5	204.559	100.146	-17.038	1.00 86.40	XMES
ATOM	32477	N1	C	X	5	205.081	101.524	-17.181	1.00 68.78	XMES
ATOM	32478	C6	C	X	5	204.831	102.265	-18.303	1.00 68.78	XMES
ATOM	32479	C2	C	X	5	205.856	102.067	-16.137	1.00 68.78	XMES
ATOM	32480	O2	C	X	5	206.060	101.375	-15.102	1.00 68.78	XMES
ATOM	32481	N3	C	X	5	206.362	103.324	-16.274	1.00 68.78	XMES
ATOM	32482	C4	C	X	5	206.116	104.027	-17.379	1.00 68.78	XMES
ATOM	32483	N4	C	X	5	206.632	105.246	-17.467	1.00 68.78	XMES
ATOM	32484	C5	C	X	5	205.326	103.507	-18.441	1.00 68.78	XMES
ATOM	32485	C2*	C	X	5	203.523	100.026	-15.921	1.00 86.40	XMES
ATOM	32486	O2*	C	X	5	203.640	98.757	-15.296	1.00 86.40	XMES



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ATOM	32487	C3*	C	X	5	202.228	100.173	-16.699	1.00	86.40	XMES
ATOM	32488	O3*	C	X	5	201.138	99.606	-16.013	1.00	86.40	XMES
ATOM	32489	P	U	X	6	200.148	100.563	-15.198	1.00	97.38	XMES
ATOM	32490	O1P	U	X	6	199.110	99.668	-14.634	1.00	70.98	XMES
ATOM	32491	O2P	U	X	6	199.756	101.712	-16.060	1.00	70.98	XMES
ATOM	32492	O5*	U	X	6	201.034	101.122	-14.001	1.00	97.38	XMES
ATOM	32493	C5*	U	X	6	201.428	100.267	-12.910	1.00	97.38	XMES
ATOM	32494	C4*	U	X	6	202.268	101.039	-11.920	1.00	97.38	XMES
ATOM	32495	O4*	U	X	6	203.495	101.486	-12.559	1.00	97.38	XMES
ATOM	32496	C1*	U	X	6	203.874	102.749	-12.032	1.00	97.38	XMES
ATOM	32497	N1	U	X	6	203.909	103.727	-13.133	1.00	70.98	XMES
ATOM	32498	C6	U	X	6	203.103	103.590	-14.238	1.00	70.98	XMES
ATOM	32499	C2	U	X	6	204.773	104.803	-13.021	1.00	70.98	XMES
ATOM	32500	O2	U	X	6	205.513	104.967	-12.066	1.00	70.98	XMES
ATOM	32501	N3	U	X	6	204.738	105.690	-14.071	1.00	70.98	XMES
ATOM	32502	C4	U	X	6	203.948	105.615	-15.197	1.00	70.98	XMES
ATOM	32503	O4	U	X	6	204.007	106.511	-16.046	1.00	70.98	XMES
ATOM	32504	C5	U	X	6	203.093	104.472	-15.243	1.00	70.98	XMES
ATOM	32505	C2*	U	X	6	202.857	103.125	-10.950	1.00	97.38	XMES
ATOM	32506	O2*	U	X	6	203.351	102.692	-9.703	1.00	97.38	XMES
ATOM	32507	C3*	U	X	6	201.645	102.315	-11.380	1.00	97.38	XMES
ATOM	32508	O3*	U	X	6	200.547	102.210	-10.478	1.00	97.38	XMES
TER	32508		U	X	6						XMES
ATOM	32509	CB	VAL	B	7	150.507	170.952	-20.219	1.00	83.75	BS2
ATOM	32510	CG1	VAL	B	7	151.743	171.465	-19.467	1.00	83.75	BS2
ATOM	32511	CG2	VAL	B	7	149.237	171.506	-19.561	1.00	83.75	BS2
ATOM	32512	C	VAL	B	7	149.649	170.494	-22.591	1.00	147.00	BS2
ATOM	32513	O	VAL	B	7	148.503	170.243	-22.215	1.00	147.00	BS2
ATOM	32514	N	VAL	B	7	150.248	172.818	-21.905	1.00	147.00	BS2
ATOM	32515	CA	VAL	B	7	150.579	171.375	-21.739	1.00	147.00	BS2
ATOM	32516	N	LYS	B	8	150.151	170.041	-23.745	1.00	100.27	BS2
ATOM	32517	CA	LYS	B	8	149.385	169.191	-24.674	1.00	100.27	BS2
ATOM	32518	CB	LYS	B	8	147.991	169.800	-24.893	1.00	181.57	BS2
ATOM	32519	CG	LYS	B	8	147.979	171.335	-25.026	1.00	181.57	BS2
ATOM	32520	CD	LYS	B	8	148.934	171.832	-26.115	1.00	181.57	BS2
ATOM	32521	CE	LYS	B	8	148.932	173.348	-26.256	1.00	181.57	BS2
ATOM	32522	NZ	LYS	B	8	149.840	173.792	-27.355	1.00	181.57	BS2
ATOM	32523	C	LYS	B	8	150.081	168.997	-26.044	1.00	100.27	BS2
ATOM	32524	O	LYS	B	8	151.271	168.656	-26.111	1.00	100.27	BS2
ATOM	32525	N	GLU	B	9	149.295	169.195	-27.111	1.00	141.64	BS2
ATOM	32526	CA	GLU	B	9	149.722	169.131	-28.518	1.00	141.64	BS2
ATOM	32527	CB	GLU	B	9	151.225	169.377	-28.611	1.00	143.24	BS2
ATOM	32528	CG	GLU	B	9	151.590	170.516	-29.531	1.00	143.24	BS2
ATOM	32529	CD	GLU	B	9	152.116	170.017	-30.853	1.00	143.24	BS2
ATOM	32530	OE1	GLU	B	9	151.417	169.222	-31.513	1.00	143.24	BS2
ATOM	32531	OE2	GLU	B	9	153.236	170.414	-31.230	1.00	143.24	BS2
ATOM	32532	C	GLU	B	9	149.340	167.892	-29.337	1.00	141.64	BS2
ATOM	32533	O	GLU	B	9	149.560	166.767	-28.908	1.00	141.64	BS2
ATOM	32534	N	LEU	B	10	148.769	168.126	-30.522	1.00	94.71	BS2
ATOM	32535	CA	LEU	B	10	148.326	167.067	-31.457	1.00	94.71	BS2
ATOM	32536	CB	LEU	B	10	146.829	167.214	-31.781	1.00	134.79	BS2
ATOM	32537	CG	LEU	B	10	145.752	166.507	-30.951	1.00	134.79	BS2
ATOM	32538	CD1	LEU	B	10	144.387	167.042	-31.337	1.00	134.79	BS2
ATOM	32539	CD2	LEU	B	10	145.807	165.010	-31.187	1.00	134.79	BS2
ATOM	32540	C	LEU	B	10	149.104	167.107	-32.776	1.00	94.71	BS2
ATOM	32541	O	LEU	B	10	149.356	166.074	-33.401	1.00	94.71	BS2
ATOM	32542	N	LEU	B	11	149.441	168.320	-33.209	1.00	121.41	BS2
ATOM	32543	CA	LEU	B	11	150.208	168.528	-34.431	1.00	121.41	BS2
ATOM	32544	CB	LEU	B	11	150.050	169.962	-34.950	1.00	161.98	BS2
ATOM	32545	CG	LEU	B	11	148.868	170.305	-35.862	1.00	161.98	BS2
ATOM	32546	CD1	LEU	B	11	148.879	171.796	-36.175	1.00	161.98	BS2
ATOM	32547	CD2	LEU	B	11	148.962	169.494	-37.145	1.00	161.98	BS2
ATOM	32548	C	LEU	B	11	151.657	168.288	-34.063	1.00	121.41	BS2
ATOM	32549	O	LEU	B	11	152.550	169.063	-34.422	1.00	121.41	BS2
ATOM	32550	N	GLU	B	12	151.888	167.217	-33.316	1.00	113.69	BS2
ATOM	32551	CA	GLU	B	12	153.242	166.921	-32.930	1.00	113.69	BS2
ATOM	32552	CB	GLU	B	12	153.311	166.228	-31.579	1.00	142.39	BS2
ATOM	32553	CG	GLU	B	12	154.627	166.560	-30.933	1.00	142.39	BS2
ATOM	32554	CD	GLU	B	12	155.246	167.808	-31.572	1.00	142.39	BS2
ATOM	32555	OE1	GLU	B	12	155.834	167.699	-32.671	1.00	142.39	BS2
ATOM	32556	OE2	GLU	B	12	155.124	168.902	-30.988	1.00	142.39	BS2
ATOM	32557	C	GLU	B	12	153.956	166.094	-33.974	1.00	113.69	BS2
ATOM	32558	O	GLU	B	12	155.037	165.554	-33.729	1.00	113.69	BS2
ATOM	32559	N	ALA	B	13	153.339	166.004	-35.148	1.00	128.36	BS2
ATOM	32560	CA	ALA	B	13	153.937	165.283	-36.258	1.00	128.36	BS2
ATOM	32561	CB	ALA	B	13	153.043	165.377	-37.500	1.00	21.46	BS2
ATOM	32562	C	ALA	B	13	155.247	166.020	-36.487	1.00	128.36	BS2



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ATOM	32563	O	ALA	B	13	156.129	165.551	-37.206	1.00128.36	BS2
ATOM	32564	N	GLY	B	14	155.349	167.185	-35.850	1.00 93.66	BS2
ATOM	32565	CA	GLY	B	14	156.531	168.010	-35.956	1.00 93.66	BS2
ATOM	32566	C	GLY	B	14	157.797	167.270	-35.582	1.00 93.66	BS2
ATOM	32567	O	GLY	B	14	158.885	167.745	-35.909	1.00 93.66	BS2
ATOM	32568	N	VAL	B	15	157.678	166.124	-34.901	1.00113.97	BS2
ATOM	32569	CA	VAL	B	15	158.870	165.361	-34.511	1.00113.97	BS2
ATOM	32570	CB	VAL	B	15	159.498	165.902	-33.204	1.00 86.05	BS2
ATOM	32571	CG1	VAL	B	15	160.928	165.410	-33.109	1.00 86.05	BS2
ATOM	32572	CG2	VAL	B	15	159.427	167.421	-33.141	1.00 86.05	BS2
ATOM	32573	C	VAL	B	15	158.782	163.833	-34.317	1.00113.97	BS2
ATOM	32574	O	VAL	B	15	159.441	163.074	-35.027	1.00113.97	BS2
ATOM	32575	N	HIS	B	16	157.984	163.388	-33.348	1.00150.89	BS2
ATOM	32576	CA	HIS	B	16	157.871	161.965	-33.018	1.00150.89	BS2
ATOM	32577	CB	HIS	B	16	157.032	161.796	-31.758	1.00198.53	BS2
ATOM	32578	CG	HIS	B	16	157.673	162.382	-30.545	1.00198.53	BS2
ATOM	32579	CD2	HIS	B	16	158.173	161.801	-29.430	1.00198.53	BS2
ATOM	32580	ND1	HIS	B	16	157.926	163.731	-30.423	1.00198.53	BS2
ATOM	32581	CE1	HIS	B	16	158.559	163.956	-29.286	1.00198.53	BS2
ATOM	32582	NE2	HIS	B	16	158.723	162.802	-28.666	1.00198.53	BS2
ATOM	32583	C	HIS	B	16	157.409	160.946	-34.040	1.00150.89	BS2
ATOM	32584	O	HIS	B	16	158.151	160.601	-34.954	1.00150.89	BS2
ATOM	32585	N	PHE	B	17	156.182	160.465	-33.864	1.00138.63	BS2
ATOM	32586	CA	PHE	B	17	155.600	159.422	-34.707	1.00138.63	BS2
ATOM	32587	CB	PHE	B	17	154.810	159.987	-35.921	1.00102.80	BS2
ATOM	32588	CG	PHE	B	17	155.649	160.655	-36.996	1.00102.80	BS2
ATOM	32589	CD1	PHE	B	17	156.880	160.131	-37.408	1.00102.80	BS2
ATOM	32590	CD2	PHE	B	17	155.154	161.773	-37.659	1.00102.80	BS2
ATOM	32591	CE1	PHE	B	17	157.601	160.706	-38.461	1.00102.80	BS2
ATOM	32592	CE2	PHE	B	17	155.858	162.355	-38.706	1.00102.80	BS2
ATOM	32593	CZ	PHE	B	17	157.087	161.819	-39.110	1.00102.80	BS2
ATOM	32594	C	PHE	B	17	156.634	158.398	-35.160	1.00138.63	BS2
ATOM	32595	O	PHE	B	17	157.705	158.279	-34.559	1.00138.63	BS2
ATOM	32596	N	GLY	B	18	156.297	157.658	-36.211	1.00109.25	BS2
ATOM	32597	CA	GLY	B	18	157.178	156.635	-36.752	1.00109.25	BS2
ATOM	32598	C	GLY	B	18	158.682	156.710	-36.526	1.00109.25	BS2
ATOM	32599	O	GLY	B	18	159.296	157.788	-36.561	1.00109.25	BS2
ATOM	32600	N	HIS	B	19	159.264	155.530	-36.304	1.00 92.48	BS2
ATOM	32601	CA	HIS	B	19	160.697	155.366	-36.080	1.00 92.48	BS2
ATOM	32602	CB	HIS	B	19	161.089	155.880	-34.688	1.00155.30	BS2
ATOM	32603	CG	HIS	B	19	162.565	155.854	-34.426	1.00155.30	BS2
ATOM	32604	CD2	HIS	B	19	163.273	155.404	-33.364	1.00155.30	BS2
ATOM	32605	ND1	HIS	B	19	163.491	156.341	-35.323	1.00155.30	BS2
ATOM	32606	CE1	HIS	B	19	164.706	156.188	-34.827	1.00155.30	BS2
ATOM	32607	NE2	HIS	B	19	164.601	155.622	-33.638	1.00155.30	BS2
ATOM	32608	C	HIS	B	19	161.029	153.881	-36.219	1.00 92.48	BS2
ATOM	32609	O	HIS	B	19	160.123	153.050	-36.266	1.00 92.48	BS2
ATOM	32610	N	GLU	B	20	162.322	153.561	-36.289	1.00114.52	BS2
ATOM	32611	CA	GLU	B	20	162.809	152.184	-36.439	1.00114.52	BS2
ATOM	32612	CB	GLU	B	20	162.429	151.318	-35.231	1.00 93.44	BS2
ATOM	32613	CG	GLU	B	20	162.855	151.864	-33.862	1.00 93.44	BS2
ATOM	32614	CD	GLU	B	20	164.341	152.186	-33.766	1.00 93.44	BS2
ATOM	32615	OE1	GLU	B	20	165.087	151.794	-34.693	1.00 93.44	BS2
ATOM	32616	OE2	GLU	B	20	164.752	152.824	-32.761	1.00 93.44	BS2
ATOM	32617	C	GLU	B	20	162.246	151.545	-37.702	1.00114.52	BS2
ATOM	32618	O	GLU	B	20	161.060	151.681	-38.010	1.00114.52	BS2
ATOM	32619	N	ARG	B	21	163.097	150.839	-38.433	1.00114.15	BS2
ATOM	32620	CA	ARG	B	21	162.657	150.205	-39.664	1.00114.15	BS2
ATOM	32621	CB	ARG	B	21	163.867	149.717	-40.460	1.00152.82	BS2
ATOM	32622	CG	ARG	B	21	164.969	149.111	-39.612	1.00152.82	BS2
ATOM	32623	CD	ARG	B	21	166.256	149.901	-39.771	1.00152.82	BS2
ATOM	32624	NE	ARG	B	21	167.384	149.281	-39.082	1.00152.82	BS2
ATOM	32625	CZ	ARG	B	21	167.945	148.130	-39.443	1.00152.82	BS2
ATOM	32626	NH1	ARG	B	21	167.484	147.461	-40.491	1.00152.82	BS2
ATOM	32627	NH2	ARG	B	21	168.972	147.649	-38.755	1.00152.82	BS2
ATOM	32628	C	ARG	B	21	161.675	149.061	-39.428	1.00114.15	BS2
ATOM	32629	O	ARG	B	21	160.645	149.240	-38.777	1.00114.15	BS2
ATOM	32630	N	LYS	B	22	162.000	147.890	-39.965	1.00102.22	BS2
ATOM	32631	CA	LYS	B	22	161.153	146.707	-39.841	1.00102.22	BS2
ATOM	32632	CB	LYS	B	22	160.567	146.361	-41.212	1.00132.02	BS2
ATOM	32633	CG	LYS	B	22	159.465	145.316	-41.222	1.00132.02	BS2
ATOM	32634	CD	LYS	B	22	158.986	145.121	-42.656	1.00132.02	BS2
ATOM	32635	CE	LYS	B	22	157.911	144.062	-42.785	1.00132.02	BS2
ATOM	32636	NZ	LYS	B	22	157.451	143.968	-44.198	1.00132.02	BS2
ATOM	32637	C	LYS	B	22	161.983	145.546	-39.295	1.00102.22	BS2
ATOM	32638	O	LYS	B	22	162.714	144.864	-40.011	1.00102.22	BS2
ATOM	32639	N	ARG	B	23	161.865	145.352	-37.997	1.00171.59	BS2



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ATOM	32640	CA	ARG	B	23	162.578	144.311	-37.290	1.00171.59	BS2
ATOM	32641	CB	ARG	B	23	164.081	144.597	-37.331	1.00111.16	BS2
ATOM	32642	CG	ARG	B	23	164.412	146.084	-37.401	1.00111.16	BS2
ATOM	32643	CD	ARG	B	23	163.852	146.830	-36.202	1.00111.16	BS2
ATOM	32644	NE	ARG	B	23	164.473	146.369	-34.961	1.00111.16	BS2
ATOM	32645	CZ	ARG	B	23	163.838	146.248	-33.797	1.00111.16	BS2
ATOM	32646	NH1	ARG	B	23	162.552	146.551	-33.707	1.00111.16	BS2
ATOM	32647	NH2	ARG	B	23	164.490	145.828	-32.717	1.00111.16	BS2
ATOM	32648	C	ARG	B	23	161.989	144.478	-35.900	1.00171.59	BS2
ATOM	32649	O	ARG	B	23	162.434	143.881	-34.926	1.00171.59	BS2
ATOM	32650	N	TRP	B	24	160.967	145.332	-35.876	1.00 89.57	BS2
ATOM	32651	CA	TRP	B	24	160.140	145.710	-34.731	1.00 89.57	BS2
ATOM	32652	CB	TRP	B	24	158.700	145.873	-35.223	1.00 69.66	BS2
ATOM	32653	CG	TRP	B	24	158.068	144.544	-35.538	1.00 69.66	BS2
ATOM	32654	CD2	TRP	B	24	156.674	144.249	-35.632	1.00 69.66	BS2
ATOM	32655	CE2	TRP	B	24	156.558	142.869	-35.940	1.00 69.66	BS2
ATOM	32656	CE3	TRP	B	24	155.508	145.009	-35.486	1.00 69.66	BS2
ATOM	32657	CD1	TRP	B	24	158.722	143.369	-35.786	1.00 69.66	BS2
ATOM	32658	NE1	TRP	B	24	157.826	142.360	-36.025	1.00 69.66	BS2
ATOM	32659	CZ2	TRP	B	24	155.316	142.234	-36.107	1.00 69.66	BS2
ATOM	32660	CZ3	TRP	B	24	154.271	144.377	-35.650	1.00 69.66	BS2
ATOM	32661	CH2	TRP	B	24	154.189	143.001	-35.959	1.00 69.66	BS2
ATOM	32662	C	TRP	B	24	160.098	144.756	-33.543	1.00 89.57	BS2
ATOM	32663	O	TRP	B	24	161.022	144.008	-33.256	1.00 89.57	BS2
ATOM	32664	N	ASN	B	25	158.971	144.834	-32.849	1.00 79.96	BS2
ATOM	32665	CA	ASN	B	25	158.661	143.981	-31.721	1.00 79.96	BS2
ATOM	32666	CB	ASN	B	25	158.999	144.630	-30.392	1.00 66.91	BS2
ATOM	32667	CG	ASN	B	25	158.732	143.701	-29.240	1.00 66.91	BS2
ATOM	32668	OD1	ASN	B	25	159.492	143.666	-28.267	1.00 66.91	BS2
ATOM	32669	ND2	ASN	B	25	157.648	142.924	-29.345	1.00 66.91	BS2
ATOM	32670	C	ASN	B	25	157.162	143.779	-31.831	1.00 79.96	BS2
ATOM	32671	O	ASN	B	25	156.374	144.650	-31.483	1.00 79.96	BS2
ATOM	32672	N	PRO	B	26	156.759	142.614	-32.330	1.00 63.66	BS2
ATOM	32673	CD	PRO	B	26	157.646	141.447	-32.443	1.00 83.23	BS2
ATOM	32674	CA	PRO	B	26	155.370	142.222	-32.534	1.00 63.66	BS2
ATOM	32675	CB	PRO	B	26	155.450	140.704	-32.538	1.00 83.23	BS2
ATOM	32676	CG	PRO	B	26	156.778	140.465	-33.169	1.00 83.23	BS2
ATOM	32677	C	PRO	B	26	154.392	142.750	-31.498	1.00 63.66	BS2
ATOM	32678	O	PRO	B	26	153.254	143.074	-31.844	1.00 63.66	BS2
ATOM	32679	N	LYS	B	27	154.836	142.830	-30.239	1.00 60.28	BS2
ATOM	32680	CA	LYS	B	27	154.000	143.308	-29.128	1.00 60.28	BS2
ATOM	32681	CB	LYS	B	27	154.693	143.023	-27.792	1.00 86.57	BS2
ATOM	32682	CG	LYS	B	27	154.736	141.550	-27.413	1.00 86.57	BS2
ATOM	32683	CD	LYS	B	27	155.289	141.360	-26.010	1.00 86.57	BS2
ATOM	32684	CE	LYS	B	27	154.994	139.965	-25.491	1.00 86.57	BS2
ATOM	32685	NZ	LYS	B	27	155.327	139.824	-24.044	1.00 86.57	BS2
ATOM	32686	C	LYS	B	27	153.650	144.799	-29.208	1.00 60.28	BS2
ATOM	32687	O	LYS	B	27	152.618	145.242	-28.701	1.00 60.28	BS2
ATOM	32688	N	PHE	B	28	154.520	145.564	-29.851	1.00 68.78	BS2
ATOM	32689	CA	PHE	B	28	154.324	146.993	-30.021	1.00 68.78	BS2
ATOM	32690	CB	PHE	B	28	155.666	147.644	-30.327	1.00 90.55	BS2
ATOM	32691	CG	PHE	B	28	155.678	149.120	-30.141	1.00 90.55	BS2
ATOM	32692	CD1	PHE	B	28	155.939	149.668	-28.892	1.00 90.55	BS2
ATOM	32693	CD2	PHE	B	28	155.436	149.968	-31.215	1.00 90.55	BS2
ATOM	32694	CE1	PHE	B	28	155.964	151.043	-28.715	1.00 90.55	BS2
ATOM	32695	CE2	PHE	B	28	155.456	151.343	-31.055	1.00 90.55	BS2
ATOM	32696	CZ	PHE	B	28	155.721	151.887	-29.802	1.00 90.55	BS2
ATOM	32697	C	PHE	B	28	153.365	147.214	-31.195	1.00 68.78	BS2
ATOM	32698	O	PHE	B	28	153.068	148.352	-31.570	1.00 68.78	BS2
ATOM	32699	N	ALA	B	29	152.890	146.111	-31.766	1.00 80.01	BS2
ATOM	32700	CA	ALA	B	29	151.980	146.134	-32.907	1.00 80.01	BS2
ATOM	32701	CB	ALA	B	29	151.409	144.740	-33.138	1.00 87.86	BS2
ATOM	32702	C	ALA	B	29	150.839	147.126	-32.767	1.00 80.01	BS2
ATOM	32703	O	ALA	B	29	150.495	147.835	-33.725	1.00 80.01	BS2
ATOM	32704	N	ARG	B	30	150.257	147.163	-31.571	1.00106.42	BS2
ATOM	32705	CA	ARG	B	30	149.128	148.036	-31.281	1.00106.42	BS2
ATOM	32706	CB	ARG	B	30	148.682	147.841	-29.828	1.00 99.47	BS2
ATOM	32707	CG	ARG	B	30	149.631	148.400	-28.796	1.00 99.47	BS2
ATOM	32708	CD	ARG	B	30	149.186	148.074	-27.365	1.00 99.47	BS2
ATOM	32709	NE	ARG	B	30	149.673	146.773	-26.903	1.00 99.47	BS2
ATOM	32710	CZ	ARG	B	30	150.360	146.585	-25.775	1.00 99.47	BS2
ATOM	32711	NH1	ARG	B	30	150.644	147.617	-24.983	1.00 99.47	BS2
ATOM	32712	NH2	ARG	B	30	150.775	145.365	-25.442	1.00 99.47	BS2
ATOM	32713	C	ARG	B	30	149.374	149.520	-31.563	1.00106.42	BS2
ATOM	32714	O	ARG	B	30	148.517	150.192	-32.132	1.00106.42	BS2
ATOM	32715	N	TYR	B	31	150.545	150.027	-31.190	1.00 94.75	BS2
ATOM	32716	CA	TYR	B	31	150.863	151.439	-31.400	1.00 94.75	BS2



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ATOM	32717	CB	TYR	B	31	151.875	151.901	-30.358	1.00	96.15	BS2
ATOM	32718	CG	TYR	B	31	151.387	151.726	-28.951	1.00	96.15	BS2
ATOM	32719	CD1	TYR	B	31	152.263	151.354	-27.938	1.00	96.15	BS2
ATOM	32720	CE1	TYR	B	31	151.815	151.132	-26.653	1.00	96.15	BS2
ATOM	32721	CD2	TYR	B	31	150.042	151.883	-28.639	1.00	96.15	BS2
ATOM	32722	CE2	TYR	B	31	149.580	151.666	-27.360	1.00	96.15	BS2
ATOM	32723	CZ	TYR	B	31	150.470	151.284	-26.368	1.00	96.15	BS2
ATOM	32724	OH	TYR	B	31	150.010	151.007	-25.100	1.00	96.15	BS2
ATOM	32725	C	TYR	B	31	151.393	151.806	-32.779	1.00	94.75	BS2
ATOM	32726	O	TYR	B	31	151.723	152.964	-33.020	1.00	94.75	BS2
ATOM	32727	N	ILE	B	32	151.486	150.840	-33.683	1.00	102.25	BS2
ATOM	32728	CA	ILE	B	32	151.999	151.141	-35.012	1.00	102.25	BS2
ATOM	32729	CB	ILE	B	32	152.835	149.976	-35.575	1.00	74.08	BS2
ATOM	32730	CG2	ILE	B	32	153.308	150.312	-36.988	1.00	74.08	BS2
ATOM	32731	CG1	ILE	B	32	154.044	149.725	-34.667	1.00	74.08	BS2
ATOM	32732	CD1	ILE	B	32	154.890	148.542	-35.081	1.00	74.08	BS2
ATOM	32733	C	ILE	B	32	150.885	151.476	-35.987	1.00	102.25	BS2
ATOM	32734	O	ILE	B	32	149.810	150.876	-35.957	1.00	102.25	BS2
ATOM	32735	N	TYR	B	33	151.162	152.444	-36.853	1.00	94.72	BS2
ATOM	32736	CA	TYR	B	33	150.197	152.894	-37.840	1.00	94.72	BS2
ATOM	32737	CB	TYR	B	33	150.185	154.424	-37.883	1.00	121.71	BS2
ATOM	32738	CG	TYR	B	33	149.108	154.994	-38.770	1.00	121.71	BS2
ATOM	32739	CD1	TYR	B	33	147.786	154.568	-38.652	1.00	121.71	BS2
ATOM	32740	CE1	TYR	B	33	146.793	155.075	-39.480	1.00	121.71	BS2
ATOM	32741	CD2	TYR	B	33	149.409	155.950	-39.739	1.00	121.71	BS2
ATOM	32742	CE2	TYR	B	33	148.420	156.466	-40.573	1.00	121.71	BS2
ATOM	32743	CZ	TYR	B	33	147.119	156.021	-40.437	1.00	121.71	BS2
ATOM	32744	OH	TYR	B	33	146.146	156.508	-41.270	1.00	121.71	BS2
ATOM	32745	C	TYR	B	33	150.471	152.315	-39.229	1.00	94.72	BS2
ATOM	32746	O	TYR	B	33	149.540	151.893	-39.921	1.00	94.72	BS2
ATOM	32747	N	ALA	B	34	151.738	152.296	-39.643	1.00	93.30	BS2
ATOM	32748	CA	ALA	B	34	152.087	151.735	-40.951	1.00	93.30	BS2
ATOM	32749	CB	ALA	B	34	151.251	152.402	-42.046	1.00	61.03	BS2
ATOM	32750	C	ALA	B	34	153.573	151.788	-41.327	1.00	93.30	BS2
ATOM	32751	O	ALA	B	34	154.390	152.420	-40.651	1.00	93.30	BS2
ATOM	32752	N	GLU	B	35	153.908	151.096	-42.412	1.00	123.71	BS2
ATOM	32753	CA	GLU	B	35	155.273	151.053	-42.919	1.00	123.71	BS2
ATOM	32754	CB	GLU	B	35	155.634	149.656	-43.429	1.00	145.56	BS2
ATOM	32755	CG	GLU	B	35	155.824	148.589	-42.368	1.00	145.56	BS2
ATOM	32756	CD	GLU	B	35	156.353	147.289	-42.953	1.00	145.56	BS2
ATOM	32757	OE1	GLU	B	35	157.487	147.288	-43.479	1.00	145.56	BS2
ATOM	32758	OE2	GLU	B	35	155.633	146.270	-42.891	1.00	145.56	BS2
ATOM	32759	C	GLU	B	35	155.381	152.015	-44.084	1.00	123.71	BS2
ATOM	32760	O	GLU	B	35	154.574	151.961	-45.010	1.00	123.71	BS2
ATOM	32761	N	ARG	B	36	156.374	152.893	-44.040	1.00	138.59	BS2
ATOM	32762	CA	ARG	B	36	156.583	153.840	-45.122	1.00	138.59	BS2
ATOM	32763	CB	ARG	B	36	156.121	155.234	-44.708	1.00	139.89	BS2
ATOM	32764	CG	ARG	B	36	154.615	155.307	-44.549	1.00	139.89	BS2
ATOM	32765	CD	ARG	B	36	154.096	156.713	-44.757	1.00	139.89	BS2
ATOM	32766	NE	ARG	B	36	152.659	156.715	-45.020	1.00	139.89	BS2
ATOM	32767	CZ	ARG	B	36	151.966	157.792	-45.380	1.00	139.89	BS2
ATOM	32768	NH1	ARG	B	36	152.577	158.962	-45.520	1.00	139.89	BS2
ATOM	32769	NH2	ARG	B	36	150.661	157.701	-45.608	1.00	139.89	BS2
ATOM	32770	C	ARG	B	36	158.048	153.840	-45.526	1.00	138.59	BS2
ATOM	32771	O	ARG	B	36	158.899	154.430	-44.856	1.00	138.59	BS2
ATOM	32772	N	ASN	B	37	158.325	153.151	-46.630	1.00	158.07	BS2
ATOM	32773	CA	ASN	B	37	159.674	153.015	-47.162	1.00	158.07	BS2
ATOM	32774	CB	ASN	B	37	160.299	154.389	-47.415	1.00	165.87	BS2
ATOM	32775	CG	ASN	B	37	159.709	155.080	-48.632	1.00	165.87	BS2
ATOM	32776	OD1	ASN	B	37	159.779	154.561	-49.749	1.00	165.87	BS2
ATOM	32777	ND2	ASN	B	37	159.123	156.257	-48.423	1.00	165.87	BS2
ATOM	32778	C	ASN	B	37	160.533	152.206	-46.203	1.00	158.07	BS2
ATOM	32779	O	ASN	B	37	161.732	152.452	-46.065	1.00	158.07	BS2
ATOM	32780	N	GLY	B	38	159.900	151.243	-45.537	1.00	152.31	BS2
ATOM	32781	CA	GLY	B	38	160.607	150.380	-44.607	1.00	152.31	BS2
ATOM	32782	C	GLY	B	38	160.653	150.825	-43.157	1.00	152.31	BS2
ATOM	32783	O	GLY	B	38	161.442	150.297	-42.373	1.00	152.31	BS2
ATOM	32784	N	ILE	B	39	159.819	151.789	-42.786	1.00	106.53	BS2
ATOM	32785	CA	ILE	B	39	159.804	152.262	-41.410	1.00	106.53	BS2
ATOM	32786	CB	ILE	B	39	160.424	153.657	-41.293	1.00	104.60	BS2
ATOM	32787	CG2	ILE	B	39	160.453	154.092	-39.835	1.00	104.60	BS2
ATOM	32788	CG1	ILE	B	39	161.838	153.635	-41.868	1.00	104.60	BS2
ATOM	32789	CD1	ILE	B	39	162.535	154.976	-41.831	1.00	104.60	BS2
ATOM	32790	C	ILE	B	39	158.395	152.306	-40.840	1.00	106.53	BS2
ATOM	32791	O	ILE	B	39	157.451	152.758	-41.499	1.00	106.53	BS2
ATOM	32792	N	HIS	B	40	158.262	151.821	-39.610	1.00	107.08	BS2
ATOM	32793	CA	HIS	B	40	156.974	151.800	-38.928	1.00	107.08	BS2



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ATOM	32794	CB	HIS	B	40	157.025	150.860	-37.713	1.00103.37	BS2
ATOM	32795	CG	HIS	B	40	156.765	149.421	-38.036	1.00103.37	BS2
ATOM	32796	CD2	HIS	B	40	155.925	148.843	-38.927	1.00103.37	BS2
ATOM	32797	ND1	HIS	B	40	157.395	148.387	-37.377	1.00103.37	BS2
ATOM	32798	CE1	HIS	B	40	156.956	147.233	-37.850	1.00103.37	BS2
ATOM	32799	NE2	HIS	B	40	156.063	147.482	-38.791	1.00103.37	BS2
ATOM	32800	C	HIS	B	40	156.621	153.207	-38.468	1.00107.08	BS2
ATOM	32801	O	HIS	B	40	157.475	153.948	-37.973	1.00107.08	BS2
ATOM	32802	N	ILE	B	41	155.358	153.571	-38.638	1.00 94.84	BS2
ATOM	32803	CA	ILE	B	41	154.895	154.880	-38.226	1.00 94.84	BS2
ATOM	32804	CB	ILE	B	41	154.138	155.588	-39.366	1.00109.62	BS2
ATOM	32805	CG2	ILE	B	41	153.311	156.741	-38.813	1.00109.62	BS2
ATOM	32806	CG1	ILE	B	41	155.141	156.081	-40.409	1.00109.62	BS2
ATOM	32807	CD1	ILE	B	41	154.547	157.010	-41.454	1.00109.62	BS2
ATOM	32808	C	ILE	B	41	153.990	154.773	-37.011	1.00 94.84	BS2
ATOM	32809	O	ILE	B	41	152.897	154.214	-37.091	1.00 94.84	BS2
ATOM	32810	N	ILE	B	42	154.457	155.313	-35.888	1.00 80.52	BS2
ATOM	32811	CA	ILE	B	42	153.697	155.293	-34.641	1.00 80.52	BS2
ATOM	32812	CB	ILE	B	42	154.552	155.813	-33.465	1.00 73.51	BS2
ATOM	32813	CG2	ILE	B	42	153.789	155.649	-32.149	1.00 73.51	BS2
ATOM	32814	CG1	ILE	B	42	155.885	155.062	-33.417	1.00 73.51	BS2
ATOM	32815	CD1	ILE	B	42	156.801	155.500	-32.278	1.00 73.51	BS2
ATOM	32816	C	ILE	B	42	152.428	156.152	-34.719	1.00 80.52	BS2
ATOM	32817	O	ILE	B	42	152.491	157.340	-35.048	1.00 80.52	BS2
ATOM	32818	N	ASP	B	43	151.283	155.547	-34.406	1.00 92.65	BS2
ATOM	32819	CA	ASP	B	43	149.994	156.246	-34.421	1.00 92.65	BS2
ATOM	32820	CB	ASP	B	43	148.847	155.242	-34.284	1.00104.65	BS2
ATOM	32821	CG	ASP	B	43	147.488	155.901	-34.365	1.00104.65	BS2
ATOM	32822	OD1	ASP	B	43	147.350	157.036	-33.859	1.00104.65	BS2
ATOM	32823	OD2	ASP	B	43	146.557	155.284	-34.927	1.00104.65	BS2
ATOM	32824	C	ASP	B	43	149.898	157.266	-33.280	1.00 92.65	BS2
ATOM	32825	O	ASP	B	43	149.593	156.911	-32.134	1.00 92.65	BS2
ATOM	32826	N	LEU	B	44	150.128	158.533	-33.607	1.00 94.34	BS2
ATOM	32827	CA	LEU	B	44	150.099	159.596	-32.610	1.00 94.34	BS2
ATOM	32828	CB	LEU	B	44	150.621	160.886	-33.230	1.00 77.81	BS2
ATOM	32829	CG	LEU	B	44	152.020	160.806	-33.840	1.00 77.81	BS2
ATOM	32830	CD1	LEU	B	44	152.259	162.068	-34.628	1.00 77.81	BS2
ATOM	32831	CD2	LEU	B	44	153.079	160.625	-32.766	1.00 77.81	BS2
ATOM	32832	C	LEU	B	44	148.726	159.837	-31.983	1.00 94.34	BS2
ATOM	32833	O	LEU	B	44	148.631	160.314	-30.849	1.00 94.34	BS2
ATOM	32834	N	GLN	B	45	147.666	159.519	-32.718	1.00 98.72	BS2
ATOM	32835	CA	GLN	B	45	146.317	159.694	-32.192	1.00 98.72	BS2
ATOM	32836	CB	GLN	B	45	145.294	159.174	-33.206	1.00195.10	BS2
ATOM	32837	CG	GLN	B	45	145.366	159.879	-34.556	1.00195.10	BS2
ATOM	32838	CD	GLN	B	45	145.456	158.916	-35.729	1.00195.10	BS2
ATOM	32839	OE1	GLN	B	45	144.569	158.087	-35.936	1.00195.10	BS2
ATOM	32840	NE2	GLN	B	45	146.532	159.024	-36.506	1.00195.10	BS2
ATOM	32841	C	GLN	B	45	146.214	158.915	-30.874	1.00 98.72	BS2
ATOM	32842	O	GLN	B	45	145.472	159.295	-29.969	1.00 98.72	BS2
ATOM	32843	N	LYS	B	46	146.980	157.828	-30.782	1.00 83.83	BS2
ATOM	32844	CA	LYS	B	46	147.019	156.975	-29.597	1.00 83.83	BS2
ATOM	32845	CB	LYS	B	46	147.419	155.548	-29.976	1.00100.65	BS2
ATOM	32846	CG	LYS	B	46	146.365	154.822	-30.784	1.00100.65	BS2
ATOM	32847	CD	LYS	B	46	146.883	153.516	-31.341	1.00100.65	BS2
ATOM	32848	CE	LYS	B	46	145.837	152.864	-32.241	1.00100.65	BS2
ATOM	32849	NZ	LYS	B	46	146.365	151.688	-33.007	1.00100.65	BS2
ATOM	32850	C	LYS	B	46	148.046	157.554	-28.660	1.00 83.83	BS2
ATOM	32851	O	LYS	B	46	147.836	157.592	-27.450	1.00 83.83	BS2
ATOM	32852	N	THR	B	47	149.158	158.002	-29.237	1.00 77.03	BS2
ATOM	32853	CA	THR	B	47	150.242	158.615	-28.477	1.00 77.03	BS2
ATOM	32854	CB	THR	B	47	151.322	159.189	-29.421	1.00 72.54	BS2
ATOM	32855	OG1	THR	B	47	151.756	158.164	-30.321	1.00 72.54	BS2
ATOM	32856	CG2	THR	B	47	152.521	159.679	-28.629	1.00 72.54	BS2
ATOM	32857	C	THR	B	47	149.651	159.745	-27.626	1.00 77.03	BS2
ATOM	32858	O	THR	B	47	150.267	160.233	-26.673	1.00 77.03	BS2
ATOM	32859	N	MET	B	48	148.446	160.161	-27.988	1.00 96.63	BS2
ATOM	32860	CA	MET	B	48	147.751	161.198	-27.248	1.00 96.63	BS2
ATOM	32861	CB	MET	B	48	146.713	161.873	-28.141	1.00124.63	BS2
ATOM	32862	CG	MET	B	48	147.312	162.809	-29.163	1.00124.63	BS2
ATOM	32863	SD	MET	B	48	148.214	164.129	-28.341	1.00124.63	BS2
ATOM	32864	CE	MET	B	48	146.886	165.314	-28.040	1.00124.63	BS2
ATOM	32865	C	MET	B	48	147.058	160.515	-26.080	1.00 96.63	BS2
ATOM	32866	O	MET	B	48	147.322	160.821	-24.915	1.00 96.63	BS2
ATOM	32867	N	GLU	B	49	146.178	159.575	-26.413	1.00 84.39	BS2
ATOM	32868	CA	GLU	B	49	145.440	158.827	-25.417	1.00 84.39	BS2
ATOM	32869	CB	GLU	B	49	144.718	157.659	-26.072	1.00158.88	BS2
ATOM	32870	CG	GLU	B	49	143.765	158.112	-27.150	1.00158.88	BS2



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ATOM	32871	CD	GLU	B	49	143.002	156.972	-27.783	1.00158.88	BS2
ATOM	32872	OE1	GLU	B	49	142.241	156.288	-27.062	1.00158.88	BS2
ATOM	32873	OE2	GLU	B	49	143.162	156.763	-29.005	1.00158.88	BS2
ATOM	32874	C	GLU	B	49	146.393	158.327	-24.355	1.00 84.39	BS2
ATOM	32875	O	GLU	B	49	146.015	158.199	-23.194	1.00 84.39	BS2
ATOM	32876	N	GLU	B	50	147.636	158.059	-24.744	1.00 84.50	BS2
ATOM	32877	CA	GLU	B	50	148.629	157.580	-23.791	1.00 84.50	BS2
ATOM	32878	CB	GLU	B	50	149.694	156.747	-24.496	1.00115.46	BS2
ATOM	32879	CG	GLU	B	50	149.290	155.294	-24.702	1.00115.46	BS2
ATOM	32880	CD	GLU	B	50	148.787	154.628	-23.425	1.00115.46	BS2
ATOM	32881	OE1	GLU	B	50	149.413	154.817	-22.355	1.00115.46	BS2
ATOM	32882	OE2	GLU	B	50	147.769	153.904	-23.498	1.00115.46	BS2
ATOM	32883	C	GLU	B	50	149.292	158.689	-22.981	1.00 84.50	BS2
ATOM	32884	O	GLU	B	50	149.452	158.557	-21.766	1.00 84.50	BS2
ATOM	32885	N	LEU	B	51	149.694	159.770	-23.640	1.00 88.01	BS2
ATOM	32886	CA	LEU	B	51	150.304	160.883	-22.925	1.00 88.01	BS2
ATOM	32887	CB	LEU	B	51	150.526	162.055	-23.866	1.00 68.15	BS2
ATOM	32888	CG	LEU	B	51	151.902	162.122	-24.518	1.00 68.15	BS2
ATOM	32889	CD1	LEU	B	51	151.783	162.771	-25.894	1.00 68.15	BS2
ATOM	32890	CD2	LEU	B	51	152.861	162.884	-23.609	1.00 68.15	BS2
ATOM	32891	C	LEU	B	51	149.350	161.300	-21.815	1.00 88.01	BS2
ATOM	32892	O	LEU	B	51	149.755	161.465	-20.663	1.00 88.01	BS2
ATOM	32893	N	GLU	B	52	148.076	161.463	-22.179	1.00108.16	BS2
ATOM	32894	CA	GLU	B	52	147.028	161.850	-21.234	1.00108.16	BS2
ATOM	32895	CB	GLU	B	52	145.649	161.653	-21.867	1.00178.84	BS2
ATOM	32896	CG	GLU	B	52	144.487	161.922	-20.922	1.00178.84	BS2
ATOM	32897	CD	GLU	B	52	143.150	161.497	-21.503	1.00178.84	BS2
ATOM	32898	OE1	GLU	B	52	142.108	161.769	-20.868	1.00178.84	BS2
ATOM	32899	OE2	GLU	B	52	143.142	160.887	-22.593	1.00178.84	BS2
ATOM	32900	C	GLU	B	52	147.130	160.984	-19.989	1.00108.16	BS2
ATOM	32901	O	GLU	B	52	147.470	161.458	-18.901	1.00108.16	BS2
ATOM	32902	N	ARG	B	53	146.828	159.705	-20.174	1.00 85.38	BS2
ATOM	32903	CA	ARG	B	53	146.876	158.722	-19.107	1.00 85.38	BS2
ATOM	32904	CB	ARG	B	53	146.652	157.327	-19.694	1.00 94.25	BS2
ATOM	32905	CG	ARG	B	53	146.908	156.222	-18.704	1.00 94.25	BS2
ATOM	32906	CD	ARG	B	53	146.590	154.844	-19.251	1.00 94.25	BS2
ATOM	32907	NE	ARG	B	53	146.875	153.841	-18.233	1.00 94.25	BS2
ATOM	32908	CZ	ARG	B	53	148.091	153.608	-17.756	1.00 94.25	BS2
ATOM	32909	NH1	ARG	B	53	149.124	154.299	-18.219	1.00 94.25	BS2
ATOM	32910	NH2	ARG	B	53	148.273	152.709	-16.801	1.00 94.25	BS2
ATOM	32911	C	ARG	B	53	148.206	158.759	-18.349	1.00 85.38	BS2
ATOM	32912	O	ARG	B	53	148.231	158.683	-17.118	1.00 85.38	BS2
ATOM	32913	N	THR	B	54	149.303	158.882	-19.094	1.00 90.06	BS2
ATOM	32914	CA	THR	B	54	150.645	158.909	-18.516	1.00 90.06	BS2
ATOM	32915	CB	THR	B	54	151.728	158.619	-19.589	1.00 79.76	BS2
ATOM	32916	OG1	THR	B	54	151.679	157.234	-19.970	1.00 79.76	BS2
ATOM	32917	CG2	THR	B	54	153.115	158.940	-19.046	1.00 79.76	BS2
ATOM	32918	C	THR	B	54	150.993	160.219	-17.822	1.00 90.06	BS2
ATOM	32919	O	THR	B	54	151.428	160.215	-16.670	1.00 90.06	BS2
ATOM	32920	N	PHE	B	55	150.824	161.337	-18.521	1.00 89.47	BS2
ATOM	32921	CA	PHE	B	55	151.132	162.629	-17.926	1.00 89.47	BS2
ATOM	32922	CB	PHE	B	55	150.897	163.752	-18.932	1.00 81.76	BS2
ATOM	32923	CG	PHE	B	55	152.152	164.216	-19.605	1.00 81.76	BS2
ATOM	32924	CD1	PHE	B	55	153.089	163.296	-20.064	1.00 81.76	BS2
ATOM	32925	CD2	PHE	B	55	152.414	165.566	-19.762	1.00 81.76	BS2
ATOM	32926	CE1	PHE	B	55	154.278	163.716	-20.668	1.00 81.76	BS2
ATOM	32927	CE2	PHE	B	55	153.602	165.998	-20.367	1.00 81.76	BS2
ATOM	32928	CZ	PHE	B	55	154.535	165.069	-20.821	1.00 81.76	BS2
ATOM	32929	C	PHE	B	55	150.264	162.804	-16.703	1.00 89.47	BS2
ATOM	32930	O	PHE	B	55	150.718	163.306	-15.666	1.00 89.47	BS2
ATOM	32931	N	ARG	B	56	149.015	162.364	-16.836	1.00 91.77	BS2
ATOM	32932	CA	ARG	B	56	148.052	162.421	-15.749	1.00 91.77	BS2
ATOM	32933	CB	ARG	B	56	146.817	161.601	-16.107	1.00112.82	BS2
ATOM	32934	CG	ARG	B	56	145.565	161.977	-15.353	1.00112.82	BS2
ATOM	32935	CD	ARG	B	56	144.524	160.887	-15.509	1.00112.82	BS2
ATOM	32936	NE	ARG	B	56	144.370	160.458	-16.899	1.00112.82	BS2
ATOM	32937	CZ	ARG	B	56	143.835	159.293	-17.271	1.00112.82	BS2
ATOM	32938	NH1	ARG	B	56	143.397	158.432	-16.358	1.00112.82	BS2
ATOM	32939	NH2	ARG	B	56	143.745	158.981	-18.558	1.00112.82	BS2
ATOM	32940	C	ARG	B	56	148.757	161.798	-14.550	1.00 91.77	BS2
ATOM	32941	O	ARG	B	56	148.906	162.434	-13.506	1.00 91.77	BS2
ATOM	32942	N	PHE	B	57	149.208	160.555	-14.721	1.00 77.40	BS2
ATOM	32943	CA	PHE	B	57	149.916	159.837	-13.661	1.00 77.40	BS2
ATOM	32944	CB	PHE	B	57	150.416	158.468	-14.145	1.00 71.93	BS2
ATOM	32945	CG	PHE	B	57	151.409	157.832	-13.209	1.00 71.93	BS2
ATOM	32946	CD1	PHE	B	57	151.015	157.377	-11.952	1.00 71.93	BS2
ATOM	32947	CD2	PHE	B	57	152.752	157.755	-13.548	1.00 71.93	BS2



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ATOM	32948	CE1	PHE	B	57	151.948	156.863	-11.042	1.00	71.93	BS2
ATOM	32949	CE2	PHE	B	57	153.691	157.243	-12.639	1.00	71.93	BS2
ATOM	32950	CZ	PHE	B	57	153.284	156.797	-11.388	1.00	71.93	BS2
ATOM	32951	C	PHE	B	57	151.108	160.628	-13.138	1.00	77.40	BS2
ATOM	32952	O	PHE	B	57	151.555	160.400	-12.018	1.00	77.40	BS2
ATOM	32953	N	ILE	B	58	151.637	161.546	-13.936	1.00	78.11	BS2
ATOM	32954	CA	ILE	B	58	152.768	162.317	-13.451	1.00	78.11	BS2
ATOM	32955	CB	ILE	B	58	153.572	162.947	-14.598	1.00	81.06	BS2
ATOM	32956	CG2	ILE	B	58	154.805	163.665	-14.030	1.00	81.06	BS2
ATOM	32957	CG1	ILE	B	58	154.027	161.846	-15.560	1.00	81.06	BS2
ATOM	32958	CD1	ILE	B	58	155.018	162.298	-16.616	1.00	81.06	BS2
ATOM	32959	C	ILE	B	58	152.328	163.394	-12.456	1.00	78.11	BS2
ATOM	32960	O	ILE	B	58	152.877	163.459	-11.351	1.00	78.11	BS2
ATOM	32961	N	GLU	B	59	151.350	164.226	-12.831	1.00	89.87	BS2
ATOM	32962	CA	GLU	B	59	150.849	165.262	-11.919	1.00	89.87	BS2
ATOM	32963	CB	GLU	B	59	149.454	165.742	-12.316	1.00	152.19	BS2
ATOM	32964	CG	GLU	B	59	149.321	166.354	-13.682	1.00	152.19	BS2
ATOM	32965	CD	GLU	B	59	147.924	166.905	-13.910	1.00	152.19	BS2
ATOM	32966	OE1	GLU	B	59	147.539	167.856	-13.197	1.00	152.19	BS2
ATOM	32967	OE2	GLU	B	59	147.207	166.387	-14.794	1.00	152.19	BS2
ATOM	32968	C	GLU	B	59	150.714	164.585	-10.568	1.00	89.87	BS2
ATOM	32969	O	GLU	B	59	151.172	165.086	-9.540	1.00	89.87	BS2
ATOM	32970	N	ASP	B	60	150.053	163.435	-10.605	1.00	79.46	BS2
ATOM	32971	CA	ASP	B	60	149.818	162.605	-9.439	1.00	79.46	BS2
ATOM	32972	CB	ASP	B	60	149.497	161.186	-9.922	1.00	198.65	BS2
ATOM	32973	CG	ASP	B	60	149.104	160.254	-8.802	1.00	198.65	BS2
ATOM	32974	OD1	ASP	B	60	149.956	159.957	-7.940	1.00	198.65	BS2
ATOM	32975	OD2	ASP	B	60	147.938	159.811	-8.793	1.00	198.65	BS2
ATOM	32976	C	ASP	B	60	151.048	162.604	-8.512	1.00	79.46	BS2
ATOM	32977	O	ASP	B	60	151.037	163.245	-7.459	1.00	79.46	BS2
ATOM	32978	N	LEU	B	61	152.106	161.894	-8.911	1.00	77.47	BS2
ATOM	32979	CA	LEU	B	61	153.320	161.810	-8.107	1.00	77.47	BS2
ATOM	32980	CB	LEU	B	61	154.247	160.700	-8.617	1.00	165.52	BS2
ATOM	32981	CG	LEU	B	61	153.892	159.250	-8.273	1.00	165.52	BS2
ATOM	32982	CD1	LEU	B	61	154.975	158.326	-8.814	1.00	165.52	BS2
ATOM	32983	CD2	LEU	B	61	153.762	159.085	-6.758	1.00	165.52	BS2
ATOM	32984	C	LEU	B	61	154.070	163.125	-8.112	1.00	77.47	BS2
ATOM	32985	O	LEU	B	61	155.108	163.259	-7.457	1.00	77.47	BS2
ATOM	32986	N	ALA	B	62	153.550	164.094	-8.860	1.00	83.98	BS2
ATOM	32987	CA	ALA	B	62	154.179	165.408	-8.943	1.00	83.98	BS2
ATOM	32988	CB	ALA	B	62	153.778	166.105	-10.240	1.00	153.64	BS2
ATOM	32989	C	ALA	B	62	153.749	166.237	-7.744	1.00	83.98	BS2
ATOM	32990	O	ALA	B	62	154.567	166.560	-6.877	1.00	83.98	BS2
ATOM	32991	N	MET	B	63	152.459	166.562	-7.697	1.00	91.11	BS2
ATOM	32992	CA	MET	B	63	151.904	167.346	-6.604	1.00	91.11	BS2
ATOM	32993	CB	MET	B	63	150.441	167.684	-6.873	1.00	162.20	BS2
ATOM	32994	CG	MET	B	63	149.548	166.472	-6.986	1.00	162.20	BS2
ATOM	32995	SD	MET	B	63	147.819	166.931	-6.900	1.00	162.20	BS2
ATOM	32996	CE	MET	B	63	147.501	166.672	-5.152	1.00	162.20	BS2
ATOM	32997	C	MET	B	63	152.011	166.573	-5.297	1.00	91.11	BS2
ATOM	32998	O	MET	B	63	151.807	167.128	-4.222	1.00	91.11	BS2
ATOM	32999	N	ARG	B	64	152.329	165.288	-5.403	1.00	85.75	BS2
ATOM	33000	CA	ARG	B	64	152.471	164.420	-4.240	1.00	85.75	BS2
ATOM	33001	CB	ARG	B	64	152.360	162.964	-4.669	1.00	132.21	BS2
ATOM	33002	CG	ARG	B	64	151.957	162.016	-3.572	1.00	132.21	BS2
ATOM	33003	CD	ARG	B	64	150.883	161.139	-4.135	1.00	132.21	BS2
ATOM	33004	NE	ARG	B	64	150.040	161.943	-5.018	1.00	132.21	BS2
ATOM	33005	CZ	ARG	B	64	149.030	161.470	-5.738	1.00	132.21	BS2
ATOM	33006	NH1	ARG	B	64	148.721	160.180	-5.681	1.00	132.21	BS2
ATOM	33007	NH2	ARG	B	64	148.343	162.287	-6.530	1.00	132.21	BS2
ATOM	33008	C	ARG	B	64	153.837	164.646	-3.604	1.00	85.75	BS2
ATOM	33009	O	ARG	B	64	154.074	164.250	-2.453	1.00	85.75	BS2
ATOM	33010	N	GLY	B	65	154.729	165.289	-4.360	1.00	108.78	BS2
ATOM	33011	CA	GLY	B	65	156.075	165.543	-3.878	1.00	108.78	BS2
ATOM	33012	C	GLY	B	65	156.898	164.282	-4.047	1.00	108.78	BS2
ATOM	33013	O	GLY	B	65	157.872	164.052	-3.327	1.00	108.78	BS2
ATOM	33014	N	GLY	B	66	156.483	163.458	-5.008	1.00	89.32	BS2
ATOM	33015	CA	GLY	B	66	157.164	162.207	-5.285	1.00	89.32	BS2
ATOM	33016	C	GLY	B	66	158.368	162.417	-6.175	1.00	89.32	BS2
ATOM	33017	O	GLY	B	66	158.524	163.483	-6.771	1.00	89.32	BS2
ATOM	33018	N	THR	B	67	159.220	161.404	-6.271	1.00	90.94	BS2
ATOM	33019	CA	THR	B	67	160.415	161.514	-7.089	1.00	90.94	BS2
ATOM	33020	CB	THR	B	67	161.645	161.157	-6.320	1.00	91.34	BS2
ATOM	33021	OG1	THR	B	67	161.502	161.605	-4.969	1.00	91.34	BS2
ATOM	33022	CG2	THR	B	67	162.845	161.819	-6.963	1.00	91.34	BS2
ATOM	33023	C	THR	B	67	160.417	160.614	-8.297	1.00	90.94	BS2
ATOM	33024	O	THR	B	67	159.874	159.514	-8.264	1.00	90.94	BS2



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ATOM	33025	N	ILE	B	68	161.062	161.081	-9.357	1.00	81.93	BS2
ATOM	33026	CA	ILE	B	68	161.157	160.315	-10.588	1.00	81.93	BS2
ATOM	33027	CB	ILE	B	68	160.353	160.965	-11.711	1.00	57.06	BS2
ATOM	33028	CG2	ILE	B	68	160.492	160.152	-12.983	1.00	57.06	BS2
ATOM	33029	CG1	ILE	B	68	158.886	161.059	-11.303	1.00	57.06	BS2
ATOM	33030	CD1	ILE	B	68	157.995	161.585	-12.407	1.00	57.06	BS2
ATOM	33031	C	ILE	B	68	162.609	160.229	-11.017	1.00	81.93	BS2
ATOM	33032	O	ILE	B	68	163.256	161.251	-11.229	1.00	81.93	BS2
ATOM	33033	N	LEU	B	69	163.126	159.010	-11.128	1.00	77.92	BS2
ATOM	33034	CA	LEU	B	69	164.509	158.832	-11.539	1.00	77.92	BS2
ATOM	33035	CB	LEU	B	69	165.095	157.544	-10.946	1.00	81.53	BS2
ATOM	33036	CG	LEU	B	69	166.624	157.388	-10.953	1.00	81.53	BS2
ATOM	33037	CD1	LEU	B	69	167.027	156.075	-10.292	1.00	81.53	BS2
ATOM	33038	CD2	LEU	B	69	167.136	157.422	-12.374	1.00	81.53	BS2
ATOM	33039	C	LEU	B	69	164.534	158.768	-13.057	1.00	77.92	BS2
ATOM	33040	O	LEU	B	69	164.097	157.781	-13.655	1.00	77.92	BS2
ATOM	33041	N	PHE	B	70	165.023	159.842	-13.672	1.00	91.89	BS2
ATOM	33042	CA	PHE	B	70	165.128	159.915	-15.119	1.00	91.89	BS2
ATOM	33043	CB	PHE	B	70	165.286	161.367	-15.570	1.00	82.02	BS2
ATOM	33044	CG	PHE	B	70	163.997	162.129	-15.632	1.00	82.02	BS2
ATOM	33045	CD1	PHE	B	70	163.361	162.548	-14.472	1.00	82.02	BS2
ATOM	33046	CD2	PHE	B	70	163.413	162.423	-16.862	1.00	82.02	BS2
ATOM	33047	CE1	PHE	B	70	162.159	163.251	-14.535	1.00	82.02	BS2
ATOM	33048	CE2	PHE	B	70	162.212	163.123	-16.939	1.00	82.02	BS2
ATOM	33049	CZ	PHE	B	70	161.582	163.538	-15.776	1.00	82.02	BS2
ATOM	33050	C	PHE	B	70	166.350	159.112	-15.550	1.00	91.89	BS2
ATOM	33051	O	PHE	B	70	167.462	159.350	-15.068	1.00	91.89	BS2
ATOM	33052	N	VAL	B	71	166.147	158.158	-16.454	1.00	80.06	BS2
ATOM	33053	CA	VAL	B	71	167.250	157.331	-16.922	1.00	80.06	BS2
ATOM	33054	CB	VAL	B	71	166.985	155.837	-16.653	1.00	78.64	BS2
ATOM	33055	CG1	VAL	B	71	168.267	155.070	-16.780	1.00	78.64	BS2
ATOM	33056	CG2	VAL	B	71	166.409	155.639	-15.270	1.00	78.64	BS2
ATOM	33057	C	VAL	B	71	167.493	157.521	-18.415	1.00	80.06	BS2
ATOM	33058	O	VAL	B	71	166.631	157.204	-19.241	1.00	80.06	BS2
ATOM	33059	N	GLY	B	72	168.674	158.043	-18.741	1.00	81.94	BS2
ATOM	33060	CA	GLY	B	72	169.043	158.278	-20.127	1.00	81.94	BS2
ATOM	33061	C	GLY	B	72	170.503	157.956	-20.423	1.00	81.94	BS2
ATOM	33062	O	GLY	B	72	171.380	158.827	-20.321	1.00	81.94	BS2
ATOM	33063	N	THR	B	73	170.765	156.698	-20.778	1.00	86.20	BS2
ATOM	33064	CA	THR	B	73	172.115	156.256	-21.107	1.00	86.20	BS2
ATOM	33065	CB	THR	B	73	172.334	154.768	-20.755	1.00151.13	BS2	
ATOM	33066	OG1	THR	B	73	172.192	154.580	-19.341	1.00151.13	BS2	
ATOM	33067	CG2	THR	B	73	173.726	154.324	-21.172	1.00151.13	BS2	
ATOM	33068	C	THR	B	73	172.320	156.450	-22.605	1.00	86.20	BS2
ATOM	33069	O	THR	B	73	173.388	156.885	-23.038	1.00	86.20	BS2
ATOM	33070	N	LYS	B	74	171.292	156.120	-23.386	1.00	90.27	BS2
ATOM	33071	CA	LYS	B	74	171.301	156.283	-24.846	1.00	90.27	BS2
ATOM	33072	CB	LYS	B	74	169.849	156.306	-25.323	1.00	96.69	BS2
ATOM	33073	CG	LYS	B	74	169.602	156.435	-26.804	1.00	96.69	BS2
ATOM	33074	CD	LYS	B	74	168.115	156.180	-27.062	1.00	96.69	BS2
ATOM	33075	CE	LYS	B	74	167.750	156.173	-28.541	1.00	96.69	BS2
ATOM	33076	NZ	LYS	B	74	167.876	157.522	-29.164	1.00	96.69	BS2
ATOM	33077	C	LYS	B	74	172.004	157.610	-25.160	1.00	90.27	BS2
ATOM	33078	O	LYS	B	74	171.781	158.600	-24.464	1.00	90.27	BS2
ATOM	33079	N	LYS	B	75	172.845	157.650	-26.192	1.00129.40	BS2	
ATOM	33080	CA	LYS	B	75	173.578	158.884	-26.505	1.00129.40	BS2	
ATOM	33081	CB	LYS	B	75	174.714	158.598	-27.492	1.00138.98	BS2	
ATOM	33082	CG	LYS	B	75	176.043	159.220	-27.073	1.00138.98	BS2	
ATOM	33083	CD	LYS	B	75	175.926	160.729	-26.896	1.00138.98	BS2	
ATOM	33084	CE	LYS	B	75	177.141	161.314	-26.182	1.00138.98	BS2	
ATOM	33085	NZ	LYS	B	75	178.435	161.011	-26.853	1.00138.98	BS2	
ATOM	33086	C	LYS	B	75	172.741	160.056	-27.023	1.00129.40	BS2	
ATOM	33087	O	LYS	B	75	172.985	161.208	-26.656	1.00129.40	BS2	
ATOM	33088	N	GLN	B	76	171.765	159.761	-27.877	1.00	99.68	BS2
ATOM	33089	CA	GLN	B	76	170.891	160.787	-28.435	1.00	99.68	BS2
ATOM	33090	CB	GLN	B	76	169.834	160.140	-29.333	1.00145.92	BS2	
ATOM	33091	CG	GLN	B	76	170.281	159.920	-30.760	1.00145.92	BS2	
ATOM	33092	CD	GLN	B	76	170.514	161.226	-31.495	1.00145.92	BS2	
ATOM	33093	OE1	GLN	B	76	171.436	161.979	-31.173	1.00145.92	BS2	
ATOM	33094	NE2	GLN	B	76	169.672	161.506	-32.484	1.00145.92	BS2	
ATOM	33095	C	GLN	B	76	170.193	161.619	-27.360	1.00	99.68	BS2
ATOM	33096	O	GLN	B	76	169.899	162.793	-27.567	1.00	99.68	BS2
ATOM	33097	N	ALA	B	77	169.921	161.009	-26.213	1.00	99.91	BS2
ATOM	33098	CA	ALA	B	77	169.251	161.716	-25.134	1.00	99.91	BS2
ATOM	33099	CB	ALA	B	77	168.008	160.958	-24.715	1.00105.91	BS2	
ATOM	33100	C	ALA	B	77	170.161	161.886	-23.936	1.00	99.91	BS2
ATOM	33101	O	ALA	B	77	169.748	162.426	-22.914	1.00	99.91	BS2



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ATOM	33102	N	GLN	B	78	171.400	161.434	-24.059	1.00	84.76	BS2
ATOM	33103	CA	GLN	B	78	172.331	161.519	-22.945	1.00	84.76	BS2
ATOM	33104	CB	GLN	B	78	173.704	160.989	-23.366	1.00131.33		BS2
ATOM	33105	CG	GLN	B	78	174.639	160.766	-22.193	1.00131.33		BS2
ATOM	33106	CD	GLN	B	78	175.863	159.962	-22.565	1.00131.33		BS2
ATOM	33107	OE1	GLN	B	78	176.552	160.280	-23.529	1.00131.33		BS2
ATOM	33108	NE2	GLN	B	78	176.145	158.915	-21.796	1.00131.33		BS2
ATOM	33109	C	GLN	B	78	172.468	162.914	-22.321	1.00	84.76	BS2
ATOM	33110	O	GLN	B	78	172.822	163.041	-21.155	1.00	84.76	BS2
ATOM	33111	N	ASP	B	79	172.185	163.965	-23.080	1.00103.71		BS2
ATOM	33112	CA	ASP	B	79	172.303	165.313	-22.529	1.00103.71		BS2
ATOM	33113	CB	ASP	B	79	172.990	166.236	-23.534	1.00140.22		BS2
ATOM	33114	CG	ASP	B	79	174.426	165.832	-23.796	1.00140.22		BS2
ATOM	33115	OD1	ASP	B	79	175.231	165.844	-22.839	1.00140.22		BS2
ATOM	33116	OD2	ASP	B	79	174.749	165.494	-24.954	1.00140.22		BS2
ATOM	33117	C	ASP	B	79	170.947	165.873	-22.145	1.00103.71		BS2
ATOM	33118	O	ASP	B	79	170.749	166.317	-21.014	1.00103.71		BS2
ATOM	33119	N	ILE	B	80	170.017	165.843	-23.093	1.00103.12		BS2
ATOM	33120	CA	ILE	B	80	168.662	166.333	-22.872	1.00103.12		BS2
ATOM	33121	CB	ILE	B	80	167.736	165.872	-24.016	1.00	95.49	BS2
ATOM	33122	CG2	ILE	B	80	166.268	166.043	-23.631	1.00	95.49	BS2
ATOM	33123	CG1	ILE	B	80	168.085	166.655	-25.283	1.00	95.49	BS2
ATOM	33124	CD1	ILE	B	80	167.264	166.258	-26.483	1.00	95.49	BS2
ATOM	33125	C	ILE	B	80	168.101	165.884	-21.523	1.00103.12		BS2
ATOM	33126	O	ILE	B	80	167.205	166.525	-20.967	1.00103.12		BS2
ATOM	33127	N	VAL	B	81	168.632	164.786	-20.996	1.00	87.03	BS2
ATOM	33128	CA	VAL	B	81	168.196	164.289	-19.702	1.00	87.03	BS2
ATOM	33129	CB	VAL	B	81	168.680	162.854	-19.461	1.00	80.97	BS2
ATOM	33130	CG1	VAL	B	81	168.475	162.465	-17.995	1.00	80.97	BS2
ATOM	33131	CG2	VAL	B	81	167.931	161.908	-20.384	1.00	80.97	BS2
ATOM	33132	C	VAL	B	81	168.745	165.192	-18.603	1.00	87.03	BS2
ATOM	33133	O	VAL	B	81	167.978	165.786	-17.849	1.00	87.03	BS2
ATOM	33134	N	ARG	B	82	170.066	165.299	-18.504	1.00	83.70	BS2
ATOM	33135	CA	ARG	B	82	170.658	166.157	-17.489	1.00	83.70	BS2
ATOM	33136	CB	ARG	B	82	172.131	166.416	-17.788	1.00125.01		BS2
ATOM	33137	CG	ARG	B	82	172.578	167.810	-17.381	1.00125.01		BS2
ATOM	33138	CD	ARG	B	82	174.071	167.924	-17.339	1.00125.01		BS2
ATOM	33139	NE	ARG	B	82	174.615	167.014	-16.343	1.00125.01		BS2
ATOM	33140	CZ	ARG	B	82	175.897	166.962	-16.011	1.00125.01		BS2
ATOM	33141	NH1	ARG	B	82	176.767	167.773	-16.598	1.00125.01		BS2
ATOM	33142	NH2	ARG	B	82	176.310	166.099	-15.093	1.00125.01		BS2
ATOM	33143	C	ARG	B	82	169.913	167.492	-17.426	1.00	83.70	BS2
ATOM	33144	O	ARG	B	82	169.662	168.014	-16.344	1.00	83.70	BS2
ATOM	33145	N	MET	B	83	169.567	168.049	-18.583	1.00100.20		BS2
ATOM	33146	CA	MET	B	83	168.841	169.317	-18.614	1.00100.20		BS2
ATOM	33147	CB	MET	B	83	168.465	169.682	-20.052	1.00152.25		BS2
ATOM	33148	CG	MET	B	83	169.629	170.150	-20.898	1.00152.25		BS2
ATOM	33149	SD	MET	B	83	170.330	171.684	-20.282	1.00152.25		BS2
ATOM	33150	CE	MET	B	83	169.629	172.871	-21.404	1.00152.25		BS2
ATOM	33151	C	MET	B	83	167.569	169.238	-17.768	1.00100.20		BS2
ATOM	33152	O	MET	B	83	167.503	169.795	-16.669	1.00100.20		BS2
ATOM	33153	N	GLU	B	84	166.566	168.538	-18.297	1.00	82.18	BS2
ATOM	33154	CA	GLU	B	84	165.281	168.369	-17.629	1.00	82.18	BS2
ATOM	33155	CB	GLU	B	84	164.418	167.384	-18.413	1.00122.35		BS2
ATOM	33156	CG	GLU	B	84	164.301	167.707	-19.881	1.00122.35		BS2
ATOM	33157	CD	GLU	B	84	163.966	169.156	-20.107	1.00122.35		BS2
ATOM	33158	OE1	GLU	B	84	162.923	169.614	-19.595	1.00122.35		BS2
ATOM	33159	OE2	GLU	B	84	164.753	169.838	-20.794	1.00122.35		BS2
ATOM	33160	C	GLU	B	84	165.436	167.859	-16.204	1.00	82.18	BS2
ATOM	33161	O	GLU	B	84	164.904	168.444	-15.257	1.00	82.18	BS2
ATOM	33162	N	ALA	B	85	166.163	166.758	-16.058	1.00	98.75	BS2
ATOM	33163	CA	ALA	B	85	166.376	166.147	-14.756	1.00	98.75	BS2
ATOM	33164	CB	ALA	B	85	167.337	164.978	-14.885	1.00134.26		BS2
ATOM	33165	C	ALA	B	85	166.882	167.138	-13.713	1.00	98.75	BS2
ATOM	33166	O	ALA	B	85	166.598	166.990	-12.527	1.00	98.75	BS2
ATOM	33167	N	GLU	B	86	167.630	168.147	-14.149	1.00	91.12	BS2
ATOM	33168	CA	GLU	B	86	168.147	169.145	-13.219	1.00	91.12	BS2
ATOM	33169	CB	GLU	B	86	169.479	169.712	-13.706	1.00128.41		BS2
ATOM	33170	CG	GLU	B	86	170.589	168.687	-13.751	1.00128.41		BS2
ATOM	33171	CD	GLU	B	86	171.890	169.261	-14.262	1.00128.41		BS2
ATOM	33172	OE1	GLU	B	86	171.862	169.985	-15.283	1.00128.41		BS2
ATOM	33173	OE2	GLU	B	86	172.939	168.978	-13.646	1.00128.41		BS2
ATOM	33174	C	GLU	B	86	167.139	170.263	-13.067	1.00	91.12	BS2
ATOM	33175	O	GLU	B	86	167.099	170.919	-12.029	1.00	91.12	BS2
ATOM	33176	N	ARG	B	87	166.333	170.481	-14.107	1.00	99.35	BS2
ATOM	33177	CA	ARG	B	87	165.297	171.509	-14.074	1.00	99.35	BS2
ATOM	33178	CB	ARG	B	87	164.549	171.559	-15.397	1.00106.84		BS2



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ATOM	33179	CG	ARG	B	87	165.131	172.544	-16.360	1.00106.84	BS2
ATOM	33180	CD	ARG	B	87	164.048	173.476	-16.809	1.00106.84	BS2
ATOM	33181	NE	ARG	B	87	163.018	172.751	-17.540	1.00106.84	BS2
ATOM	33182	CZ	ARG	B	87	161.784	173.202	-17.737	1.00106.84	BS2
ATOM	33183	NH1	ARG	B	87	161.423	174.381	-17.245	1.00106.84	BS2
ATOM	33184	NH2	ARG	B	87	160.915	172.476	-18.432	1.00106.84	BS2
ATOM	33185	C	ARG	B	87	164.325	171.194	-12.940	1.00 99.35	BS2
ATOM	33186	O	ARG	B	87	164.023	172.055	-12.114	1.00 99.35	BS2
ATOM	33187	N	ALA	B	88	163.819	169.966	-12.909	1.00109.36	BS2
ATOM	33188	CA	ALA	B	88	162.938	169.552	-11.826	1.00109.36	BS2
ATOM	33189	CB	ALA	B	88	162.007	168.457	-12.296	1.00 70.15	BS2
ATOM	33190	C	ALA	B	88	163.934	169.011	-10.808	1.00109.36	BS2
ATOM	33191	O	ALA	B	88	164.969	168.478	-11.196	1.00109.36	BS2
ATOM	33192	N	GLY	B	89	163.655	169.154	-9.520	1.00120.15	BS2
ATOM	33193	CA	GLY	B	89	164.601	168.660	-8.533	1.00120.15	BS2
ATOM	33194	C	GLY	B	89	164.802	167.155	-8.610	1.00120.15	BS2
ATOM	33195	O	GLY	B	89	165.120	166.513	-7.609	1.00120.15	BS2
ATOM	33196	N	MET	B	90	164.638	166.591	-9.802	1.00105.47	BS2
ATOM	33197	CA	MET	B	90	164.765	165.152	-10.000	1.00105.47	BS2
ATOM	33198	CB	MET	B	90	163.796	164.708	-11.101	1.00108.30	BS2
ATOM	33199	CG	MET	B	90	162.371	165.146	-10.819	1.00108.30	BS2
ATOM	33200	SD	MET	B	90	161.956	164.816	-9.089	1.00108.30	BS2
ATOM	33201	CE	MET	B	90	160.465	163.941	-9.296	1.00108.30	BS2
ATOM	33202	C	MET	B	90	166.168	164.641	-10.307	1.00105.47	BS2
ATOM	33203	O	MET	B	90	167.001	165.361	-10.857	1.00105.47	BS2
ATOM	33204	N	PRO	B	91	166.452	163.383	-9.922	1.00104.06	BS2
ATOM	33205	CD	PRO	B	91	165.694	162.584	-8.948	1.00116.03	BS2
ATOM	33206	CA	PRO	B	91	167.759	162.769	-10.160	1.00104.06	BS2
ATOM	33207	CB	PRO	B	91	167.840	161.673	-9.090	1.00116.03	BS2
ATOM	33208	CG	PRO	B	91	166.800	162.058	-8.077	1.00116.03	BS2
ATOM	33209	C	PRO	B	91	167.778	162.182	-11.564	1.00104.06	BS2
ATOM	33210	O	PRO	B	91	166.750	162.152	-12.254	1.00104.06	BS2
ATOM	33211	N	TYR	B	92	168.946	161.706	-11.979	1.00 84.22	BS2
ATOM	33212	CA	TYR	B	92	169.078	161.125	-13.302	1.00 84.22	BS2
ATOM	33213	CB	TYR	B	92	169.181	162.242	-14.348	1.00 93.03	BS2
ATOM	33214	CG	TYR	B	92	170.372	163.160	-14.149	1.00 93.03	BS2
ATOM	33215	CD1	TYR	B	92	171.670	162.720	-14.395	1.00 93.03	BS2
ATOM	33216	CE1	TYR	B	92	172.771	163.550	-14.184	1.00 93.03	BS2
ATOM	33217	CD2	TYR	B	92	170.203	164.457	-13.688	1.00 93.03	BS2
ATOM	33218	CE2	TYR	B	92	171.295	165.295	-13.475	1.00 93.03	BS2
ATOM	33219	CZ	TYR	B	92	172.575	164.835	-13.722	1.00 93.03	BS2
ATOM	33220	OH	TYR	B	92	173.652	165.658	-13.484	1.00 93.03	BS2
ATOM	33221	C	TYR	B	92	170.300	160.230	-13.405	1.00 84.22	BS2
ATOM	33222	O	TYR	B	92	171.261	160.386	-12.646	1.00 84.22	BS2
ATOM	33223	N	VAL	B	93	170.235	159.271	-14.327	1.00 79.21	BS2
ATOM	33224	CA	VAL	B	93	171.359	158.388	-14.614	1.00 79.21	BS2
ATOM	33225	CB	VAL	B	93	171.017	156.909	-14.446	1.00 70.76	BS2
ATOM	33226	CG1	VAL	B	93	171.956	156.065	-15.294	1.00 70.76	BS2
ATOM	33227	CG2	VAL	B	93	171.194	156.522	-12.985	1.00 70.76	BS2
ATOM	33228	C	VAL	B	93	171.686	158.701	-16.067	1.00 79.21	BS2
ATOM	33229	O	VAL	B	93	170.845	158.558	-16.966	1.00 79.21	BS2
ATOM	33230	N	ASN	B	94	172.918	159.151	-16.277	1.00103.26	BS2
ATOM	33231	CA	ASN	B	94	173.360	159.568	-17.591	1.00103.26	BS2
ATOM	33232	CB	ASN	B	94	173.852	161.003	-17.513	1.00111.13	BS2
ATOM	33233	CG	ASN	B	94	173.287	161.844	-18.601	1.00111.13	BS2
ATOM	33234	OD1	ASN	B	94	172.595	161.333	-19.486	1.00111.13	BS2
ATOM	33235	ND2	ASN	B	94	173.566	163.143	-18.559	1.00111.13	BS2
ATOM	33236	C	ASN	B	94	174.429	158.726	-18.249	1.00103.26	BS2
ATOM	33237	O	ASN	B	94	174.347	158.445	-19.441	1.00103.26	BS2
ATOM	33238	N	GLN	B	95	175.443	158.341	-17.487	1.00109.11	BS2
ATOM	33239	CA	GLN	B	95	176.511	157.543	-18.054	1.00109.11	BS2
ATOM	33240	CB	GLN	B	95	177.752	157.636	-17.172	1.00148.63	BS2
ATOM	33241	CG	GLN	B	95	178.405	158.999	-17.256	1.00148.63	BS2
ATOM	33242	CD	GLN	B	95	178.454	159.516	-18.684	1.00148.63	BS2
ATOM	33243	OE1	GLN	B	95	177.430	159.898	-19.256	1.00148.63	BS2
ATOM	33244	NE2	GLN	B	95	179.643	159.516	-19.273	1.00148.63	BS2
ATOM	33245	C	GLN	B	95	176.113	156.096	-18.286	1.00109.11	BS2
ATOM	33246	O	GLN	B	95	175.695	155.740	-19.390	1.00109.11	BS2
ATOM	33247	N	ARG	B	96	176.246	155.259	-17.260	1.00106.78	BS2
ATOM	33248	CA	ARG	B	96	175.877	153.857	-17.394	1.00106.78	BS2
ATOM	33249	CB	ARG	B	96	177.119	152.981	-17.588	1.00180.83	BS2
ATOM	33250	CG	ARG	B	96	177.117	152.245	-18.919	1.00180.83	BS2
ATOM	33251	CD	ARG	B	96	177.000	153.243	-20.062	1.00180.83	BS2
ATOM	33252	NE	ARG	B	96	176.599	152.633	-21.324	1.00180.83	BS2
ATOM	33253	CZ	ARG	B	96	176.364	153.323	-22.436	1.00180.83	BS2
ATOM	33254	NH1	ARG	B	96	176.491	154.644	-22.436	1.00180.83	BS2
ATOM	33255	NH2	ARG	B	96	175.995	152.696	-23.544	1.00180.83	BS2



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ATOM	33256	C	ARG	B	96	175.092	153.377	-16.192	1.00106.78	BS2
ATOM	33257	O	ARG	B	96	175.537	153.513	-15.056	1.00106.78	BS2
ATOM	33258	N	TRP	B	97	173.917	152.814	-16.448	1.00 70.73	BS2
ATOM	33259	CA	TRP	B	97	173.081	152.322	-15.371	1.00 70.73	BS2
ATOM	33260	CB	TRP	B	97	171.714	151.904	-15.911	1.00 93.59	BS2
ATOM	33261	CG	TRP	B	97	170.650	152.085	-14.893	1.00 93.59	BS2
ATOM	33262	CD2	TRP	B	97	170.204	151.111	-13.974	1.00 93.59	BS2
ATOM	33263	CE2	TRP	B	97	169.262	151.740	-13.116	1.00 93.59	BS2
ATOM	33264	CE3	TRP	B	97	170.505	149.761	-13.785	1.00 93.59	BS2
ATOM	33265	CD1	TRP	B	97	169.980	153.247	-14.577	1.00 93.59	BS2
ATOM	33266	NE1	TRP	B	97	169.146	153.045	-13.507	1.00 93.59	BS2
ATOM	33267	CZ2	TRP	B	97	168.631	151.064	-12.088	1.00 93.59	BS2
ATOM	33268	CZ3	TRP	B	97	169.884	149.092	-12.772	1.00 93.59	BS2
ATOM	33269	CH2	TRP	B	97	168.948	149.742	-11.928	1.00 93.59	BS2
ATOM	33270	C	TRP	B	97	173.752	151.140	-14.674	1.00 70.73	BS2
ATOM	33271	O	TRP	B	97	173.628	149.998	-15.122	1.00 70.73	BS2
ATOM	33272	N	LEU	B	98	174.468	151.425	-13.584	1.00 59.00	BS2
ATOM	33273	CA	LEU	B	98	175.159	150.399	-12.794	1.00 59.00	BS2
ATOM	33274	CB	LEU	B	98	175.817	151.026	-11.573	1.00 51.31	BS2
ATOM	33275	CG	LEU	B	98	176.473	152.398	-11.732	1.00 51.31	BS2
ATOM	33276	CD1	LEU	B	98	177.327	152.717	-10.501	1.00 51.31	BS2
ATOM	33277	CD2	LEU	B	98	177.312	152.399	-12.976	1.00 51.31	BS2
ATOM	33278	C	LEU	B	98	174.225	149.286	-12.310	1.00 59.00	BS2
ATOM	33279	O	LEU	B	98	173.071	149.525	-11.927	1.00 59.00	BS2
ATOM	33280	N	GLY	B	99	174.735	148.064	-12.317	1.00 74.22	BS2
ATOM	33281	CA	GLY	B	99	173.927	146.945	-11.884	1.00 74.22	BS2
ATOM	33282	C	GLY	B	99	173.549	147.072	-10.426	1.00 74.22	BS2
ATOM	33283	O	GLY	B	99	174.420	147.100	-9.546	1.00 74.22	BS2
ATOM	33284	N	GLY	B	100	172.248	147.171	-10.166	1.00 72.71	BS2
ATOM	33285	CA	GLY	B	100	171.773	147.274	-8.797	1.00 72.71	BS2
ATOM	33286	C	GLY	B	100	171.498	148.667	-8.263	1.00 72.71	BS2
ATOM	33287	O	GLY	B	100	171.382	148.844	-7.052	1.00 72.71	BS2
ATOM	33288	N	MET	B	101	171.396	149.660	-9.139	1.00 74.10	BS2
ATOM	33289	CA	MET	B	101	171.117	151.006	-8.667	1.00 74.10	BS2
ATOM	33290	CB	MET	B	101	170.953	151.964	-9.846	1.00 74.06	BS2
ATOM	33291	CG	MET	B	101	172.231	152.066	-10.688	1.00 74.06	BS2
ATOM	33292	SD	MET	B	101	172.513	153.664	-11.530	1.00 74.06	BS2
ATOM	33293	CE	MET	B	101	173.671	154.433	-10.410	1.00 74.06	BS2
ATOM	33294	C	MET	B	101	169.851	150.933	-7.821	1.00 74.10	BS2
ATOM	33295	O	MET	B	101	169.883	151.211	-6.619	1.00 74.10	BS2
ATOM	33296	N	LEU	B	102	168.739	150.536	-8.428	1.00 76.43	BS2
ATOM	33297	CA	LEU	B	102	167.501	150.404	-7.667	1.00 76.43	BS2
ATOM	33298	CB	LEU	B	102	166.319	150.250	-8.608	1.00 56.12	BS2
ATOM	33299	CG	LEU	B	102	165.774	151.547	-9.190	1.00 56.12	BS2
ATOM	33300	CD1	LEU	B	102	166.896	152.525	-9.505	1.00 56.12	BS2
ATOM	33301	CD2	LEU	B	102	164.980	151.199	-10.434	1.00 56.12	BS2
ATOM	33302	C	LEU	B	102	167.593	149.167	-6.789	1.00 76.43	BS2
ATOM	33303	O	LEU	B	102	167.597	149.237	-5.561	1.00 76.43	BS2
ATOM	33304	N	THR	B	103	167.673	148.030	-7.461	1.00 68.02	BS2
ATOM	33305	CA	THR	B	103	167.764	146.723	-6.849	1.00 68.02	BS2
ATOM	33306	CB	THR	B	103	168.004	145.704	-7.929	1.00 68.30	BS2
ATOM	33307	OG1	THR	B	103	166.733	145.306	-8.449	1.00 68.30	BS2
ATOM	33308	CG2	THR	B	103	168.790	144.518	-7.414	1.00 68.30	BS2
ATOM	33309	C	THR	B	103	168.790	146.548	-5.755	1.00 68.02	BS2
ATOM	33310	O	THR	B	103	168.582	145.756	-4.846	1.00 68.02	BS2
ATOM	33311	N	ASN	B	104	169.906	147.256	-5.841	1.00 80.69	BS2
ATOM	33312	CA	ASN	B	104	170.918	147.150	-4.798	1.00 80.69	BS2
ATOM	33313	CB	ASN	B	104	172.179	146.463	-5.326	1.00 68.52	BS2
ATOM	33314	CG	ASN	B	104	173.154	146.110	-4.217	1.00 68.52	BS2
ATOM	33315	OD1	ASN	B	104	172.922	146.432	-3.054	1.00 68.52	BS2
ATOM	33316	ND2	ASN	B	104	174.247	145.448	-4.572	1.00 68.52	BS2
ATOM	33317	C	ASN	B	104	171.249	148.558	-4.335	1.00 80.69	BS2
ATOM	33318	O	ASN	B	104	172.418	148.918	-4.191	1.00 80.69	BS2
ATOM	33319	N	PHE	B	105	170.197	149.341	-4.095	1.00 89.29	BS2
ATOM	33320	CA	PHE	B	105	170.301	150.741	-3.673	1.00 89.29	BS2
ATOM	33321	CB	PHE	B	105	168.907	151.321	-3.444	1.00 96.25	BS2
ATOM	33322	CG	PHE	B	105	168.897	152.809	-3.260	1.00 96.25	BS2
ATOM	33323	CD1	PHE	B	105	169.281	153.651	-4.295	1.00 96.25	BS2
ATOM	33324	CD2	PHE	B	105	168.491	153.373	-2.059	1.00 96.25	BS2
ATOM	33325	CE1	PHE	B	105	169.256	155.034	-4.141	1.00 96.25	BS2
ATOM	33326	CE2	PHE	B	105	168.464	154.756	-1.896	1.00 96.25	BS2
ATOM	33327	CZ	PHE	B	105	168.848	155.586	-2.943	1.00 96.25	BS2
ATOM	33328	C	PHE	B	105	171.155	151.050	-2.450	1.00 89.29	BS2
ATOM	33329	O	PHE	B	105	172.050	151.883	-2.526	1.00 89.29	BS2
ATOM	33330	N	LYS	B	106	170.881	150.408	-1.321	1.00 72.04	BS2
ATOM	33331	CA	LYS	B	106	171.669	150.699	-0.140	1.00 72.04	BS2
ATOM	33332	CB	LYS	B	106	171.369	149.740	1.014	1.00121.54	BS2



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ATOM	33333	CG	LYS	B	106	172.293	149.973	2.219	1.00121.54	BS2
ATOM	33334	CD	LYS	B	106	171.939	149.126	3.439	1.00121.54	BS2
ATOM	33335	CE	LYS	B	106	170.732	149.683	4.189	1.00121.54	BS2
ATOM	33336	NZ	LYS	B	106	170.393	148.884	5.410	1.00121.54	BS2
ATOM	33337	C	LYS	B	106	173.143	150.632	-0.460	1.00 72.04	BS2
ATOM	33338	O	LYS	B	106	173.930	151.384	0.111	1.00 72.04	BS2
ATOM	33339	N	THR	B	107	173.529	149.749	-1.376	1.00 73.05	BS2
ATOM	33340	CA	THR	B	107	174.945	149.630	-1.726	1.00 73.05	BS2
ATOM	33341	CB	THR	B	107	175.277	148.226	-2.283	1.00 71.32	BS2
ATOM	33342	OG1	THR	B	107	175.055	147.241	-1.267	1.00 71.32	BS2
ATOM	33343	CG2	THR	B	107	176.731	148.152	-2.698	1.00 71.32	BS2
ATOM	33344	C	THR	B	107	175.428	150.698	-2.714	1.00 73.05	BS2
ATOM	33345	O	THR	B	107	176.293	151.510	-2.369	1.00 73.05	BS2
ATOM	33346	N	ILE	B	108	174.884	150.699	-3.932	1.00 76.80	BS2
ATOM	33347	CA	ILE	B	108	175.274	151.687	-4.937	1.00 76.80	BS2
ATOM	33348	CB	ILE	B	108	174.404	151.573	-6.222	1.00127.40	BS2
ATOM	33349	CG2	ILE	B	108	174.403	152.884	-7.004	1.00127.40	BS2
ATOM	33350	CG1	ILE	B	108	174.948	150.457	-7.112	1.00127.40	BS2
ATOM	33351	CD1	ILE	B	108	174.301	150.394	-8.491	1.00127.40	BS2
ATOM	33352	C	ILE	B	108	175.162	153.099	-4.371	1.00 76.80	BS2
ATOM	33353	O	ILE	B	108	175.637	154.058	-4.977	1.00 76.80	BS2
ATOM	33354	N	SER	B	109	174.535	153.226	-3.204	1.00128.34	BS2
ATOM	33355	CA	SER	B	109	174.390	154.529	-2.560	1.00128.34	BS2
ATOM	33356	CB	SER	B	109	173.225	154.527	-1.571	1.00128.58	BS2
ATOM	33357	OG	SER	B	109	173.619	153.957	-0.332	1.00128.58	BS2
ATOM	33358	C	SER	B	109	175.676	154.826	-1.800	1.00128.34	BS2
ATOM	33359	O	SER	B	109	176.180	155.945	-1.829	1.00128.34	BS2
ATOM	33360	N	GLN	B	110	176.198	153.812	-1.115	1.00 83.80	BS2
ATOM	33361	CA	GLN	B	110	177.424	153.958	-0.347	1.00 83.80	BS2
ATOM	33362	CB	GLN	B	110	177.895	152.610	0.161	1.00141.50	BS2
ATOM	33363	CG	GLN	B	110	177.059	152.069	1.270	1.00141.50	BS2
ATOM	33364	CD	GLN	B	110	177.663	150.822	1.844	1.00141.50	BS2
ATOM	33365	OE1	GLN	B	110	177.847	149.830	1.133	1.00141.50	BS2
ATOM	33366	NE2	GLN	B	110	177.991	150.858	3.135	1.00141.50	BS2
ATOM	33367	C	GLN	B	110	178.527	154.585	-1.170	1.00 83.80	BS2
ATOM	33368	O	GLN	B	110	179.582	154.948	-0.642	1.00 83.80	BS2
ATOM	33369	N	ARG	B	111	178.287	154.691	-2.471	1.00128.03	BS2
ATOM	33370	CA	ARG	B	111	179.249	155.298	-3.373	1.00128.03	BS2
ATOM	33371	CB	ARG	B	111	179.098	154.710	-4.776	1.00 94.48	BS2
ATOM	33372	CG	ARG	B	111	179.764	153.347	-4.964	1.00 94.48	BS2
ATOM	33373	CD	ARG	B	111	181.281	153.466	-4.907	1.00 94.48	BS2
ATOM	33374	NE	ARG	B	111	181.818	153.112	-3.597	1.00 94.48	BS2
ATOM	33375	CZ	ARG	B	111	183.071	153.346	-3.221	1.00 94.48	BS2
ATOM	33376	NH1	ARG	B	111	183.912	153.941	-4.061	1.00 94.48	BS2
ATOM	33377	NH2	ARG	B	111	183.488	152.978	-2.014	1.00 94.48	BS2
ATOM	33378	C	ARG	B	111	179.009	156.804	-3.386	1.00128.03	BS2
ATOM	33379	O	ARG	B	111	179.934	157.589	-3.590	1.00128.03	BS2
ATOM	33380	N	VAL	B	112	177.761	157.203	-3.165	1.00 98.83	BS2
ATOM	33381	CA	VAL	B	112	177.427	158.617	-3.123	1.00 98.83	BS2
ATOM	33382	CB	VAL	B	112	175.898	158.858	-3.151	1.00 84.49	BS2
ATOM	33383	CG1	VAL	B	112	175.605	160.344	-3.235	1.00 84.49	BS2
ATOM	33384	CG2	VAL	B	112	175.281	158.157	-4.353	1.00 84.49	BS2
ATOM	33385	C	VAL	B	112	178.004	159.165	-1.825	1.00 98.83	BS2
ATOM	33386	O	VAL	B	112	178.594	160.241	-1.820	1.00 98.83	BS2
ATOM	33387	N	HIS	B	113	177.849	158.419	-0.730	1.00105.43	BS2
ATOM	33388	CA	HIS	B	113	178.385	158.846	0.565	1.00105.43	BS2
ATOM	33389	CB	HIS	B	113	178.232	157.752	1.624	1.00154.40	BS2
ATOM	33390	CG	HIS	B	113	176.811	157.461	1.994	1.00154.40	BS2
ATOM	33391	CD2	HIS	B	113	176.144	156.288	2.118	1.00154.40	BS2
ATOM	33392	ND1	HIS	B	113	175.906	158.452	2.306	1.00154.40	BS2
ATOM	33393	CE1	HIS	B	113	174.741	157.903	2.603	1.00154.40	BS2
ATOM	33394	NE2	HIS	B	113	174.859	156.591	2.497	1.00154.40	BS2
ATOM	33395	C	HIS	B	113	179.860	159.170	0.408	1.00105.43	BS2
ATOM	33396	O	HIS	B	113	180.319	160.237	0.818	1.00105.43	BS2
ATOM	33397	N	ARG	B	114	180.598	158.239	-0.188	1.00116.20	BS2
ATOM	33398	CA	ARG	B	114	182.026	158.418	-0.420	1.00116.20	BS2
ATOM	33399	CB	ARG	B	114	182.572	157.237	-1.217	1.00120.59	BS2
ATOM	33400	CG	ARG	B	114	183.684	156.472	-0.530	1.00120.59	BS2
ATOM	33401	CD	ARG	B	114	185.028	157.167	-0.649	1.00120.59	BS2
ATOM	33402	NE	ARG	B	114	186.101	156.273	-0.222	1.00120.59	BS2
ATOM	33403	CZ	ARG	B	114	187.393	156.572	-0.264	1.00120.59	BS2
ATOM	33404	NH1	ARG	B	114	187.788	157.755	-0.715	1.00120.59	BS2
ATOM	33405	NH2	ARG	B	114	188.290	155.681	0.141	1.00120.59	BS2
ATOM	33406	C	ARG	B	114	182.275	159.712	-1.189	1.00116.20	BS2
ATOM	33407	O	ARG	B	114	183.052	160.557	-0.755	1.00116.20	BS2
ATOM	33408	N	LEU	B	115	181.612	159.862	-2.332	1.00 93.53	BS2
ATOM	33409	CA	LEU	B	115	181.761	161.056	-3.154	1.00 93.53	BS2



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ATOM	33410	CB	LEU	B	115	180.679	161.100	-4.232	1.00	83.11	BS2
ATOM	33411	CG	LEU	B	115	180.510	162.467	-4.899	1.00	83.11	BS2
ATOM	33412	CD1	LEU	B	115	181.850	162.973	-5.387	1.00	83.11	BS2
ATOM	33413	CD2	LEU	B	115	179.541	162.366	-6.052	1.00	83.11	BS2
ATOM	33414	C	LEU	B	115	181.674	162.310	-2.303	1.00	93.53	BS2
ATOM	33415	O	LEU	B	115	182.610	163.106	-2.254	1.00	93.53	BS2
ATOM	33416	N	GLU	B	116	180.537	162.486	-1.640	1.00	99.96	BS2
ATOM	33417	CA	GLU	B	116	180.326	163.640	-0.779	1.00	99.96	BS2
ATOM	33418	CB	GLU	B	116	179.028	163.457	0.010	1.00	118.98	BS2
ATOM	33419	CG	GLU	B	116	177.841	163.104	-0.883	1.00	118.98	BS2
ATOM	33420	CD	GLU	B	116	176.532	162.938	-0.125	1.00	118.98	BS2
ATOM	33421	OE1	GLU	B	116	176.525	162.225	0.907	1.00	118.98	BS2
ATOM	33422	OE2	GLU	B	116	175.508	163.508	-0.574	1.00	118.98	BS2
ATOM	33423	C	GLU	B	116	181.518	163.764	0.165	1.00	99.96	BS2
ATOM	33424	O	GLU	B	116	182.083	164.846	0.336	1.00	99.96	BS2
ATOM	33425	N	GLU	B	117	181.907	162.640	0.758	1.00	111.95	BS2
ATOM	33426	CA	GLU	B	117	183.038	162.602	1.676	1.00	111.95	BS2
ATOM	33427	CB	GLU	B	117	183.196	161.197	2.255	1.00	147.36	BS2
ATOM	33428	CG	GLU	B	117	184.440	161.013	3.105	1.00	147.36	BS2
ATOM	33429	CD	GLU	B	117	184.607	159.585	3.583	1.00	147.36	BS2
ATOM	33430	OE1	GLU	B	117	184.648	158.674	2.727	1.00	147.36	BS2
ATOM	33431	OE2	GLU	B	117	184.699	159.373	4.812	1.00	147.36	BS2
ATOM	33432	C	GLU	B	117	184.352	163.027	1.014	1.00	111.95	BS2
ATOM	33433	O	GLU	B	117	185.130	163.778	1.604	1.00	111.95	BS2
ATOM	33434	N	LEU	B	118	184.606	162.545	-0.201	1.00	121.75	BS2
ATOM	33435	CA	LEU	B	118	185.836	162.896	-0.908	1.00	121.75	BS2
ATOM	33436	CB	LEU	B	118	186.049	161.996	-2.133	1.00	95.52	BS2
ATOM	33437	CG	LEU	B	118	186.599	160.591	-1.838	1.00	95.52	BS2
ATOM	33438	CD1	LEU	B	118	186.635	159.749	-3.108	1.00	95.52	BS2
ATOM	33439	CD2	LEU	B	118	187.992	160.709	-1.243	1.00	95.52	BS2
ATOM	33440	C	LEU	B	118	185.840	164.356	-1.330	1.00	121.75	BS2
ATOM	33441	O	LEU	B	118	186.899	164.953	-1.481	1.00	121.75	BS2
ATOM	33442	N	GLU	B	119	184.661	164.935	-1.519	1.00	90.52	BS2
ATOM	33443	CA	GLU	B	119	184.588	166.338	-1.899	1.00	90.52	BS2
ATOM	33444	CB	GLU	B	119	183.178	166.703	-2.331	1.00	149.60	BS2
ATOM	33445	CG	GLU	B	119	182.680	165.909	-3.501	1.00	149.60	BS2
ATOM	33446	CD	GLU	B	119	181.283	166.311	-3.880	1.00	149.60	BS2
ATOM	33447	OE1	GLU	B	119	180.437	166.383	-2.964	1.00	149.60	BS2
ATOM	33448	OE2	GLU	B	119	181.028	166.550	-5.081	1.00	149.60	BS2
ATOM	33449	C	GLU	B	119	184.978	167.172	-0.688	1.00	90.52	BS2
ATOM	33450	O	GLU	B	119	185.398	168.326	-0.818	1.00	90.52	BS2
ATOM	33451	N	ALA	B	120	184.830	166.572	0.490	1.00	134.43	BS2
ATOM	33452	CA	ALA	B	120	185.173	167.229	1.742	1.00	134.43	BS2
ATOM	33453	CB	ALA	B	120	184.720	166.383	2.915	1.00	89.31	BS2
ATOM	33454	C	ALA	B	120	186.677	167.436	1.805	1.00	134.43	BS2
ATOM	33455	O	ALA	B	120	187.150	168.557	1.977	1.00	134.43	BS2
ATOM	33456	N	LEU	B	121	187.427	166.348	1.661	1.00	140.63	BS2
ATOM	33457	CA	LEU	B	121	188.882	166.416	1.700	1.00	140.63	BS2
ATOM	33458	CB	LEU	B	121	189.483	165.025	1.495	1.00	129.61	BS2
ATOM	33459	CG	LEU	B	121	189.316	164.064	2.674	1.00	129.61	BS2
ATOM	33460	CD1	LEU	B	121	189.978	162.726	2.350	1.00	129.61	BS2
ATOM	33461	CD2	LEU	B	121	189.934	164.684	3.923	1.00	129.61	BS2
ATOM	33462	C	LEU	B	121	189.465	167.388	0.676	1.00	140.63	BS2
ATOM	33463	O	LEU	B	121	190.322	168.200	1.014	1.00	140.63	BS2
ATOM	33464	N	PHE	B	122	189.012	167.306	-0.572	1.00	130.56	BS2
ATOM	33465	CA	PHE	B	122	189.506	168.208	-1.609	1.00	130.56	BS2
ATOM	33466	CB	PHE	B	122	189.251	167.628	-3.004	1.00	127.41	BS2
ATOM	33467	CG	PHE	B	122	190.206	166.529	-3.394	1.00	127.41	BS2
ATOM	33468	CD1	PHE	B	122	190.384	165.412	-2.577	1.00	127.41	BS2
ATOM	33469	CD2	PHE	B	122	190.909	166.598	-4.591	1.00	127.41	BS2
ATOM	33470	CE1	PHE	B	122	191.249	164.379	-2.949	1.00	127.41	BS2
ATOM	33471	CE2	PHE	B	122	191.774	165.572	-4.971	1.00	127.41	BS2
ATOM	33472	CZ	PHE	B	122	191.944	164.459	-4.148	1.00	127.41	BS2
ATOM	33473	C	PHE	B	122	188.829	169.569	-1.480	1.00	130.56	BS2
ATOM	33474	O	PHE	B	122	188.021	169.963	-2.326	1.00	130.56	BS2
ATOM	33475	N	ALA	B	123	189.175	170.270	-0.402	1.00	171.98	BS2
ATOM	33476	CA	ALA	B	123	188.651	171.596	-0.084	1.00	171.98	BS2
ATOM	33477	CB	ALA	B	123	187.172	171.701	-0.486	1.00	60.83	BS2
ATOM	33478	C	ALA	B	123	188.814	171.830	1.420	1.00	171.98	BS2
ATOM	33479	O	ALA	B	123	188.596	172.935	1.918	1.00	171.98	BS2
ATOM	33480	N	SER	B	124	189.214	170.773	2.126	1.00	150.25	BS2
ATOM	33481	CA	SER	B	124	189.411	170.800	3.577	1.00	150.25	BS2
ATOM	33482	CB	SER	B	124	188.991	169.445	4.173	1.00	173.53	BS2
ATOM	33483	OG	SER	B	124	189.920	168.418	3.865	1.00	173.53	BS2
ATOM	33484	C	SER	B	124	190.873	171.118	3.931	1.00	150.25	BS2
ATOM	33485	O	SER	B	124	191.577	171.751	3.145	1.00	150.25	BS2
ATOM	33486	N	PRO	B	125	191.343	170.716	5.130	1.00	198.84	BS2



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ATOM	33487	CD	PRO	B	125	190.633	170.312	6.361	1.00173.59	BS2
ATOM	33488	CA	PRO	B	125	192.743	171.029	5.435	1.00198.84	BS2
ATOM	33489	CB	PRO	B	125	192.748	171.105	6.956	1.00173.59	BS2
ATOM	33490	CG	PRO	B	125	191.770	170.039	7.323	1.00173.59	BS2
ATOM	33491	C	PRO	B	125	193.699	169.960	4.914	1.00198.84	BS2
ATOM	33492	O	PRO	B	125	194.709	170.263	4.278	1.00198.84	BS2
ATOM	33493	N	GLU	B	126	193.357	168.707	5.189	1.00198.84	BS2
ATOM	33494	CA	GLU	B	126	194.154	167.555	4.787	1.00198.84	BS2
ATOM	33495	CB	GLU	B	126	193.450	166.280	5.233	1.00198.50	BS2
ATOM	33496	CG	GLU	B	126	193.073	166.277	6.693	1.00198.50	BS2
ATOM	33497	CD	GLU	B	126	191.943	165.322	6.976	1.00198.50	BS2
ATOM	33498	OE1	GLU	B	126	190.826	165.567	6.473	1.00198.50	BS2
ATOM	33499	OE2	GLU	B	126	192.170	164.325	7.693	1.00198.50	BS2
ATOM	33500	C	GLU	B	126	194.422	167.477	3.286	1.00198.84	BS2
ATOM	33501	O	GLU	B	126	195.008	166.503	2.809	1.00198.84	BS2
ATOM	33502	N	ILE	B	127	193.986	168.491	2.544	1.00197.45	BS2
ATOM	33503	CA	ILE	B	127	194.190	168.520	1.101	1.00197.45	BS2
ATOM	33504	CB	ILE	B	127	194.031	169.942	0.533	1.00123.91	BS2
ATOM	33505	CG2	ILE	B	127	194.064	169.897	-0.986	1.00123.91	BS2
ATOM	33506	CG1	ILE	B	127	192.715	170.553	1.005	1.00123.91	BS2
ATOM	33507	CD1	ILE	B	127	192.521	171.992	0.572	1.00123.91	BS2
ATOM	33508	C	ILE	B	127	195.604	168.056	0.790	1.00197.45	BS2
ATOM	33509	O	ILE	B	127	195.821	166.926	0.351	1.00197.45	BS2
ATOM	33510	N	GLU	B	128	196.562	168.945	1.036	1.00189.93	BS2
ATOM	33511	CA	GLU	B	128	197.969	168.664	0.791	1.00189.93	BS2
ATOM	33512	CB	GLU	B	128	198.755	169.974	0.690	1.00146.84	BS2
ATOM	33513	CG	GLU	B	128	198.537	170.761	-0.609	1.00146.84	BS2
ATOM	33514	CD	GLU	B	128	197.073	171.096	-0.885	1.00146.84	BS2
ATOM	33515	OE1	GLU	B	128	196.401	171.669	0.000	1.00146.84	BS2
ATOM	33516	OE2	GLU	B	128	196.596	170.792	-1.999	1.00146.84	BS2
ATOM	33517	C	GLU	B	128	198.571	167.781	1.877	1.00189.93	BS2
ATOM	33518	O	GLU	B	128	199.531	168.165	2.544	1.00189.93	BS2
ATOM	33519	N	GLU	B	129	197.991	166.599	2.056	1.00191.50	BS2
ATOM	33520	CA	GLU	B	129	198.478	165.646	3.044	1.00191.50	BS2
ATOM	33521	CB	GLU	B	129	197.514	165.536	4.227	1.00197.12	BS2
ATOM	33522	CG	GLU	B	129	197.918	166.370	5.431	1.00197.12	BS2
ATOM	33523	CD	GLU	B	129	197.244	165.904	6.708	1.00197.12	BS2
ATOM	33524	OE1	GLU	B	129	195.998	165.960	6.779	1.00197.12	BS2
ATOM	33525	OE2	GLU	B	129	197.963	165.478	7.638	1.00197.12	BS2
ATOM	33526	C	GLU	B	129	198.661	164.275	2.410	1.00191.50	BS2
ATOM	33527	O	GLU	B	129	197.943	163.914	1.474	1.00191.50	BS2
ATOM	33528	N	ARG	B	130	199.624	163.518	2.932	1.00174.73	BS2
ATOM	33529	CA	ARG	B	130	199.933	162.184	2.426	1.00174.73	BS2
ATOM	33530	CB	ARG	B	130	198.674	161.307	2.419	1.00193.67	BS2
ATOM	33531	CG	ARG	B	130	198.147	160.909	3.798	1.00193.67	BS2
ATOM	33532	CD	ARG	B	130	199.087	159.946	4.522	1.00193.67	BS2
ATOM	33533	NE	ARG	B	130	198.423	159.296	5.651	1.00193.67	BS2
ATOM	33534	CZ	ARG	B	130	198.989	158.388	6.441	1.00193.67	BS2
ATOM	33535	NH1	ARG	B	130	200.243	158.011	6.239	1.00193.67	BS2
ATOM	33536	NH2	ARG	B	130	198.292	157.846	7.429	1.00193.67	BS2
ATOM	33537	C	ARG	B	130	200.507	162.284	1.011	1.00174.73	BS2
ATOM	33538	O	ARG	B	130	200.275	163.266	0.302	1.00174.73	BS2
ATOM	33539	N	PRO	B	131	201.260	161.261	0.579	1.00190.89	BS2
ATOM	33540	CD	PRO	B	131	201.395	159.912	1.157	1.00154.59	BS2
ATOM	33541	CA	PRO	B	131	201.836	161.308	-0.768	1.00190.89	BS2
ATOM	33542	CB	PRO	B	131	202.445	159.915	-0.930	1.00154.59	BS2
ATOM	33543	CG	PRO	B	131	201.555	159.056	-0.076	1.00154.59	BS2
ATOM	33544	C	PRO	B	131	200.784	161.608	-1.826	1.00190.89	BS2
ATOM	33545	O	PRO	B	131	199.610	161.283	-1.649	1.00190.89	BS2
ATOM	33546	N	LYS	B	132	201.197	162.240	-2.919	1.00189.75	BS2
ATOM	33547	CA	LYS	B	132	200.256	162.537	-3.985	1.00189.75	BS2
ATOM	33548	CB	LYS	B	132	200.880	163.457	-5.035	1.00113.59	BS2
ATOM	33549	CG	LYS	B	132	201.173	164.841	-4.502	1.00113.59	BS2
ATOM	33550	CD	LYS	B	132	201.265	165.860	-5.617	1.00113.59	BS2
ATOM	33551	CE	LYS	B	132	201.413	167.270	-5.050	1.00113.59	BS2
ATOM	33552	NZ	LYS	B	132	201.414	168.324	-6.110	1.00113.59	BS2
ATOM	33553	C	LYS	B	132	199.820	161.226	-4.618	1.00189.75	BS2
ATOM	33554	O	LYS	B	132	198.988	161.210	-5.520	1.00189.75	BS2
ATOM	33555	N	LYS	B	133	200.389	160.123	-4.133	1.00198.84	BS2
ATOM	33556	CA	LYS	B	133	200.031	158.797	-4.627	1.00198.84	BS2
ATOM	33557	CB	LYS	B	133	200.998	157.730	-4.097	1.00193.59	BS2
ATOM	33558	CG	LYS	B	133	202.356	157.722	-4.787	1.00193.59	BS2
ATOM	33559	CD	LYS	B	133	203.152	156.477	-4.430	1.00193.59	BS2
ATOM	33560	CE	LYS	B	133	204.432	156.392	-5.247	1.00193.59	BS2
ATOM	33561	NZ	LYS	B	133	205.181	155.138	-4.962	1.00193.59	BS2
ATOM	33562	C	LYS	B	133	198.615	158.503	-4.147	1.00198.84	BS2
ATOM	33563	O	LYS	B	133	198.112	157.387	-4.273	1.00198.84	BS2



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ATOM	33564	N	GLU	B	134	197.990	159.531	-3.584	1.00192.63	BS2
ATOM	33565	CA	GLU	B	134	196.627	159.461	-3.082	1.00192.63	BS2
ATOM	33566	CB	GLU	B	134	196.625	159.379	-1.561	1.00142.56	BS2
ATOM	33567	CG	GLU	B	134	197.528	158.310	-1.007	1.00142.56	BS2
ATOM	33568	CD	GLU	B	134	197.251	158.048	0.449	1.00142.56	BS2
ATOM	33569	OE1	GLU	B	134	197.259	159.015	1.238	1.00142.56	BS2
ATOM	33570	OE2	GLU	B	134	197.021	156.874	0.807	1.00142.56	BS2
ATOM	33571	C	GLU	B	134	195.983	160.761	-3.529	1.00192.63	BS2
ATOM	33572	O	GLU	B	134	194.816	160.799	-3.919	1.00192.63	BS2
ATOM	33573	N	GLN	B	135	196.771	161.830	-3.467	1.00110.92	BS2
ATOM	33574	CA	GLN	B	135	196.326	163.150	-3.886	1.00110.92	BS2
ATOM	33575	CB	GLN	B	135	197.383	164.197	-3.506	1.00169.42	BS2
ATOM	33576	CG	GLN	B	135	197.034	165.636	-3.868	1.00169.42	BS2
ATOM	33577	CD	GLN	B	135	197.938	166.646	-3.178	1.00169.42	BS2
ATOM	33578	OE1	GLN	B	135	199.161	166.517	-3.198	1.00169.42	BS2
ATOM	33579	NE2	GLN	B	135	197.336	167.661	-2.570	1.00169.42	BS2
ATOM	33580	C	GLN	B	135	196.145	163.076	-5.401	1.00110.92	BS2
ATOM	33581	O	GLN	B	135	195.797	164.058	-6.059	1.00110.92	BS2
ATOM	33582	N	VAL	B	136	196.395	161.885	-5.937	1.00172.45	BS2
ATOM	33583	CA	VAL	B	136	196.257	161.614	-7.359	1.00172.45	BS2
ATOM	33584	CB	VAL	B	136	197.614	161.250	-7.997	1.00163.15	BS2
ATOM	33585	CG1	VAL	B	136	197.414	160.794	-9.433	1.00163.15	BS2
ATOM	33586	CG2	VAL	B	136	198.539	162.458	-7.956	1.00163.15	BS2
ATOM	33587	C	VAL	B	136	195.276	160.458	-7.552	1.00172.45	BS2
ATOM	33588	O	VAL	B	136	194.490	160.463	-8.497	1.00172.45	BS2
ATOM	33589	N	ARG	B	137	195.320	159.473	-6.656	1.00164.21	BS2
ATOM	33590	CA	ARG	B	137	194.406	158.334	-6.737	1.00164.21	BS2
ATOM	33591	CB	ARG	B	137	194.863	157.194	-5.826	1.00159.51	BS2
ATOM	33592	CG	ARG	B	137	196.123	156.475	-6.265	1.00159.51	BS2
ATOM	33593	CD	ARG	B	137	196.297	155.151	-5.508	1.00159.51	BS2
ATOM	33594	NE	ARG	B	137	196.166	155.295	-4.055	1.00159.51	BS2
ATOM	33595	CZ	ARG	B	137	195.012	155.284	-3.392	1.00159.51	BS2
ATOM	33596	NH1	ARG	B	137	193.867	155.131	-4.042	1.00159.51	BS2
ATOM	33597	NH2	ARG	B	137	195.001	155.434	-2.075	1.00159.51	BS2
ATOM	33598	C	ARG	B	137	193.001	158.766	-6.317	1.00164.21	BS2
ATOM	33599	O	ARG	B	137	192.019	158.489	-7.011	1.00164.21	BS2
ATOM	33600	N	LEU	B	138	192.913	159.429	-5.167	1.00132.07	BS2
ATOM	33601	CA	LEU	B	138	191.635	159.912	-4.666	1.00132.07	BS2
ATOM	33602	CB	LEU	B	138	191.829	160.666	-3.344	1.00 97.24	BS2
ATOM	33603	CG	LEU	B	138	192.483	159.922	-2.168	1.00 97.24	BS2
ATOM	33604	CD1	LEU	B	138	192.409	160.802	-0.939	1.00 97.24	BS2
ATOM	33605	CD2	LEU	B	138	191.786	158.605	-1.890	1.00 97.24	BS2
ATOM	33606	C	LEU	B	138	191.057	160.841	-5.728	1.00132.07	BS2
ATOM	33607	O	LEU	B	138	189.890	160.725	-6.100	1.00132.07	BS2
ATOM	33608	N	LYS	B	139	191.891	161.754	-6.216	1.00 93.94	BS2
ATOM	33609	CA	LYS	B	139	191.502	162.700	-7.257	1.00 93.94	BS2
ATOM	33610	CB	LYS	B	139	192.746	163.328	-7.883	1.00164.12	BS2
ATOM	33611	CG	LYS	B	139	192.730	164.837	-7.955	1.00164.12	BS2
ATOM	33612	CD	LYS	B	139	191.421	165.369	-8.491	1.00164.12	BS2
ATOM	33613	CE	LYS	B	139	191.497	166.875	-8.605	1.00164.12	BS2
ATOM	33614	NZ	LYS	B	139	192.069	167.477	-7.366	1.00164.12	BS2
ATOM	33615	C	LYS	B	139	190.722	161.980	-8.353	1.00 93.94	BS2
ATOM	33616	O	LYS	B	139	189.803	162.546	-8.944	1.00 93.94	BS2
ATOM	33617	N	HIS	B	140	191.115	160.735	-8.628	1.00191.12	BS2
ATOM	33618	CA	HIS	B	140	190.463	159.914	-9.647	1.00191.12	BS2
ATOM	33619	CB	HIS	B	140	191.224	158.599	-9.872	1.00173.97	BS2
ATOM	33620	CG	HIS	B	140	192.535	158.758	-10.579	1.00173.97	BS2
ATOM	33621	CD2	HIS	B	140	193.777	158.319	-10.263	1.00173.97	BS2
ATOM	33622	ND1	HIS	B	140	192.657	159.407	-11.790	1.00173.97	BS2
ATOM	33623	CE1	HIS	B	140	193.916	159.362	-12.188	1.00173.97	BS2
ATOM	33624	NE2	HIS	B	140	194.617	158.707	-11.279	1.00173.97	BS2
ATOM	33625	C	HIS	B	140	189.044	159.582	-9.218	1.00191.12	BS2
ATOM	33626	O	HIS	B	140	188.087	159.915	-9.911	1.00191.12	BS2
ATOM	33627	N	GLU	B	141	188.918	158.914	-8.074	1.00119.43	BS2
ATOM	33628	CA	GLU	B	141	187.610	158.536	-7.553	1.00119.43	BS2
ATOM	33629	CB	GLU	B	141	187.692	158.238	-6.065	1.00112.03	BS2
ATOM	33630	CG	GLU	B	141	188.403	156.960	-5.748	1.00112.03	BS2
ATOM	33631	CD	GLU	B	141	188.197	156.560	-4.312	1.00112.03	BS2
ATOM	33632	OE1	GLU	B	141	188.698	157.274	-3.421	1.00112.03	BS2
ATOM	33633	OE2	GLU	B	141	187.522	155.537	-4.073	1.00112.03	BS2
ATOM	33634	C	GLU	B	141	186.582	159.625	-7.778	1.00119.43	BS2
ATOM	33635	O	GLU	B	141	185.496	159.366	-8.289	1.00119.43	BS2
ATOM	33636	N	LEU	B	142	186.922	160.846	-7.386	1.00 97.48	BS2
ATOM	33637	CA	LEU	B	142	186.003	161.950	-7.577	1.00 97.48	BS2
ATOM	33638	CB	LEU	B	142	186.604	163.258	-7.059	1.00136.64	BS2
ATOM	33639	CG	LEU	B	142	186.475	163.493	-5.549	1.00136.64	BS2
ATOM	33640	CD1	LEU	B	142	187.254	164.729	-5.157	1.00136.64	BS2



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ATOM	33641	CD2	LEU	B	142	185.016	163.657	-5.169	1.00136.64	BS2
ATOM	33642	C	LEU	B	142	185.688	162.063	-9.056	1.00 97.48	BS2
ATOM	33643	O	LEU	B	142	184.520	162.090	-9.446	1.00 97.48	BS2
ATOM	33644	N	GLU	B	143	186.731	162.112	-9.879	1.00131.80	BS2
ATOM	33645	CA	GLU	B	143	186.552	162.217	-11.322	1.00131.80	BS2
ATOM	33646	CB	GLU	B	143	187.833	161.802	-12.060	1.00139.61	BS2
ATOM	33647	CG	GLU	B	143	189.067	162.618	-11.711	1.00139.61	BS2
ATOM	33648	CD	GLU	B	143	188.889	164.099	-11.987	1.00139.61	BS2
ATOM	33649	OE1	GLU	B	143	188.614	164.460	-13.151	1.00139.61	BS2
ATOM	33650	OE2	GLU	B	143	189.027	164.899	-11.038	1.00139.61	BS2
ATOM	33651	C	GLU	B	143	185.403	161.317	-11.766	1.00131.80	BS2
ATOM	33652	O	GLU	B	143	184.393	161.799	-12.282	1.00131.80	BS2
ATOM	33653	N	ARG	B	144	185.559	160.014	-11.537	1.00128.49	BS2
ATOM	33654	CA	ARG	B	144	184.554	159.027	-11.927	1.00128.49	BS2
ATOM	33655	CB	ARG	B	144	185.154	157.614	-11.873	1.00132.62	BS2
ATOM	33656	CG	ARG	B	144	185.403	157.064	-10.475	1.00132.62	BS2
ATOM	33657	CD	ARG	B	144	184.591	155.796	-10.258	1.00132.62	BS2
ATOM	33658	NE	ARG	B	144	184.899	154.788	-11.270	1.00132.62	BS2
ATOM	33659	CZ	ARG	B	144	184.214	153.662	-11.444	1.00132.62	BS2
ATOM	33660	NH1	ARG	B	144	183.168	153.386	-10.673	1.00132.62	BS2
ATOM	33661	NH2	ARG	B	144	184.577	152.814	-12.393	1.00132.62	BS2
ATOM	33662	C	ARG	B	144	183.265	159.078	-11.103	1.00128.49	BS2
ATOM	33663	O	ARG	B	144	182.170	159.114	-11.668	1.00128.49	BS2
ATOM	33664	N	LEU	B	145	183.390	159.069	-9.778	1.00 84.20	BS2
ATOM	33665	CA	LEU	B	145	182.218	159.121	-8.918	1.00 84.20	BS2
ATOM	33666	CB	LEU	B	145	182.619	159.384	-7.472	1.00 64.39	BS2
ATOM	33667	CG	LEU	B	145	183.063	158.119	-6.738	1.00 64.39	BS2
ATOM	33668	CD1	LEU	B	145	183.695	158.456	-5.386	1.00 64.39	BS2
ATOM	33669	CD2	LEU	B	145	181.849	157.220	-6.559	1.00 64.39	BS2
ATOM	33670	C	LEU	B	145	181.309	160.220	-9.406	1.00 84.20	BS2
ATOM	33671	O	LEU	B	145	180.092	160.059	-9.429	1.00 84.20	BS2
ATOM	33672	N	GLN	B	146	181.913	161.330	-9.816	1.00 97.16	BS2
ATOM	33673	CA	GLN	B	146	181.167	162.474	-10.323	1.00 97.16	BS2
ATOM	33674	CB	GLN	B	146	182.043	163.728	-10.275	1.00123.83	BS2
ATOM	33675	CG	GLN	B	146	182.489	164.099	-8.871	1.00123.83	BS2
ATOM	33676	CD	GLN	B	146	183.374	165.329	-8.837	1.00123.83	BS2
ATOM	33677	OE1	GLN	B	146	182.983	166.397	-9.305	1.00123.83	BS2
ATOM	33678	NE2	GLN	B	146	184.571	165.187	-8.275	1.00123.83	BS2
ATOM	33679	C	GLN	B	146	180.673	162.236	-11.752	1.00 97.16	BS2
ATOM	33680	O	GLN	B	146	179.773	162.936	-12.235	1.00 97.16	BS2
ATOM	33681	N	LYS	B	147	181.264	161.248	-12.421	1.00111.78	BS2
ATOM	33682	CA	LYS	B	147	180.886	160.911	-13.790	1.00111.78	BS2
ATOM	33683	CB	LYS	B	147	182.017	160.156	-14.501	1.00140.31	BS2
ATOM	33684	CG	LYS	B	147	183.260	160.971	-14.798	1.00140.31	BS2
ATOM	33685	CD	LYS	B	147	184.358	160.102	-15.423	1.00140.31	BS2
ATOM	33686	CE	LYS	B	147	185.661	160.888	-15.613	1.00140.31	BS2
ATOM	33687	NZ	LYS	B	147	186.786	160.033	-16.086	1.00140.31	BS2
ATOM	33688	C	LYS	B	147	179.643	160.036	-13.821	1.00111.78	BS2
ATOM	33689	O	LYS	B	147	178.747	160.246	-14.638	1.00111.78	BS2
ATOM	33690	N	TYR	B	148	179.597	159.058	-12.920	1.00104.32	BS2
ATOM	33691	CA	TYR	B	148	178.495	158.093	-12.857	1.00104.32	BS2
ATOM	33692	CB	TYR	B	148	179.096	156.703	-12.589	1.00116.52	BS2
ATOM	33693	CG	TYR	B	148	180.211	156.353	-13.564	1.00116.52	BS2
ATOM	33694	CD1	TYR	B	148	181.259	155.505	-13.200	1.00116.52	BS2
ATOM	33695	CE1	TYR	B	148	182.292	155.222	-14.096	1.00116.52	BS2
ATOM	33696	CD2	TYR	B	148	180.225	156.900	-14.850	1.00116.52	BS2
ATOM	33697	CE2	TYR	B	148	181.245	156.625	-15.745	1.00116.52	BS2
ATOM	33698	CZ	TYR	B	148	182.272	155.792	-15.367	1.00116.52	BS2
ATOM	33699	OH	TYR	B	148	183.275	155.563	-16.274	1.00116.52	BS2
ATOM	33700	C	TYR	B	148	177.403	158.418	-11.832	1.00104.32	BS2
ATOM	33701	O	TYR	B	148	176.234	158.067	-12.004	1.00104.32	BS2
ATOM	33702	N	LEU	B	149	177.792	159.108	-10.773	1.00 83.86	BS2
ATOM	33703	CA	LEU	B	149	176.860	159.462	-9.730	1.00 83.86	BS2
ATOM	33704	CB	LEU	B	149	177.436	159.021	-8.387	1.00 66.44	BS2
ATOM	33705	CG	LEU	B	149	177.771	157.539	-8.195	1.00 66.44	BS2
ATOM	33706	CD1	LEU	B	149	178.359	157.346	-6.801	1.00 66.44	BS2
ATOM	33707	CD2	LEU	B	149	176.520	156.675	-8.355	1.00 66.44	BS2
ATOM	33708	C	LEU	B	149	176.555	160.962	-9.697	1.00 83.86	BS2
ATOM	33709	O	LEU	B	149	176.321	161.524	-8.631	1.00 83.86	BS2
ATOM	33710	N	SER	B	150	176.550	161.622	-10.849	1.00 91.35	BS2
ATOM	33711	CA	SER	B	150	176.263	163.056	-10.853	1.00 91.35	BS2
ATOM	33712	CB	SER	B	150	176.634	163.682	-12.201	1.00 89.09	BS2
ATOM	33713	OG	SER	B	150	175.555	163.593	-13.121	1.00 89.09	BS2
ATOM	33714	C	SER	B	150	174.778	163.305	-10.566	1.00 91.35	BS2
ATOM	33715	O	SER	B	150	174.430	164.120	-9.706	1.00 91.35	BS2
ATOM	33716	N	GLY	B	151	173.915	162.597	-11.296	1.00 90.46	BS2
ATOM	33717	CA	GLY	B	151	172.476	162.736	-11.129	1.00 90.46	BS2



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ATOM	33718	C	GLY	B	151	171.882	161.737	-10.155	1.00	90.46	BS2
ATOM	33719	O	GLY	B	151	170.747	161.891	-9.696	1.00	90.46	BS2
ATOM	33720	N	PHE	B	152	172.653	160.701	-9.845	1.00	81.07	BS2
ATOM	33721	CA	PHE	B	152	172.215	159.682	-8.906	1.00	81.07	BS2
ATOM	33722	CB	PHE	B	152	172.963	158.384	-9.159	1.00	84.69	BS2
ATOM	33723	CG	PHE	B	152	172.388	157.224	-8.426	1.00	84.69	BS2
ATOM	33724	CD1	PHE	B	152	171.202	156.641	-8.860	1.00	84.69	BS2
ATOM	33725	CD2	PHE	B	152	173.012	156.730	-7.284	1.00	84.69	BS2
ATOM	33726	CE1	PHE	B	152	170.644	155.583	-8.171	1.00	84.69	BS2
ATOM	33727	CE2	PHE	B	152	172.463	155.671	-6.584	1.00	84.69	BS2
ATOM	33728	CZ	PHE	B	152	171.274	155.094	-7.029	1.00	84.69	BS2
ATOM	33729	C	PHE	B	152	172.534	160.202	-7.508	1.00	81.07	BS2
ATOM	33730	O	PHE	B	152	172.608	159.455	-6.527	1.00	81.07	BS2
ATOM	33731	N	ARG	B	153	172.731	161.511	-7.457	1.00	98.44	BS2
ATOM	33732	CA	ARG	B	153	173.058	162.242	-6.248	1.00	98.44	BS2
ATOM	33733	CB	ARG	B	153	173.588	163.619	-6.638	1.00	145.84	BS2
ATOM	33734	CG	ARG	B	153	175.083	163.760	-6.646	1.00	145.84	BS2
ATOM	33735	CD	ARG	B	153	175.558	164.149	-5.271	1.00	145.84	BS2
ATOM	33736	NE	ARG	B	153	176.978	164.464	-5.271	1.00	145.84	BS2
ATOM	33737	CZ	ARG	B	153	177.650	164.868	-4.201	1.00	145.84	BS2
ATOM	33738	NH1	ARG	B	153	177.029	165.012	-3.036	1.00	145.84	BS2
ATOM	33739	NH2	ARG	B	153	178.945	165.113	-4.298	1.00	145.84	BS2
ATOM	33740	C	ARG	B	153	171.841	162.429	-5.359	1.00	98.44	BS2
ATOM	33741	O	ARG	B	153	171.818	161.982	-4.208	1.00	98.44	BS2
ATOM	33742	N	LEU	B	154	170.843	163.109	-5.921	1.00	98.89	BS2
ATOM	33743	CA	LEU	B	154	169.601	163.436	-5.236	1.00	98.89	BS2
ATOM	33744	CB	LEU	B	154	168.626	164.075	-6.217	1.00	92.76	BS2
ATOM	33745	CG	LEU	B	154	169.194	165.210	-7.072	1.00	92.76	BS2
ATOM	33746	CD1	LEU	B	154	168.028	165.909	-7.767	1.00	92.76	BS2
ATOM	33747	CD2	LEU	B	154	169.995	166.198	-6.219	1.00	92.76	BS2
ATOM	33748	C	LEU	B	154	168.909	162.291	-4.518	1.00	98.89	BS2
ATOM	33749	O	LEU	B	154	168.498	162.447	-3.366	1.00	98.89	BS2
ATOM	33750	N	LEU	B	155	168.760	161.152	-5.188	1.00	85.02	BS2
ATOM	33751	CA	LEU	B	155	168.109	160.010	-4.559	1.00	85.02	BS2
ATOM	33752	CB	LEU	B	155	168.334	158.740	-5.376	1.00	65.23	BS2
ATOM	33753	CG	LEU	B	155	167.404	158.546	-6.569	1.00	65.23	BS2
ATOM	33754	CD1	LEU	B	155	167.546	157.126	-7.090	1.00	65.23	BS2
ATOM	33755	CD2	LEU	B	155	165.969	158.800	-6.150	1.00	65.23	BS2
ATOM	33756	C	LEU	B	155	168.578	159.757	-3.129	1.00	85.02	BS2
ATOM	33757	O	LEU	B	155	169.777	159.684	-2.861	1.00	85.02	BS2
ATOM	33758	N	LYS	B	156	167.627	159.636	-2.210	1.00	99.86	BS2
ATOM	33759	CA	LYS	B	156	167.943	159.354	-0.817	1.00	99.86	BS2
ATOM	33760	CB	LYS	B	156	167.537	160.534	0.079	1.00	164.28	BS2
ATOM	33761	CG	LYS	B	156	167.910	160.373	1.557	1.00	164.28	BS2
ATOM	33762	CD	LYS	B	156	166.812	159.660	2.348	1.00	164.28	BS2
ATOM	33763	CE	LYS	B	156	167.265	159.277	3.753	1.00	164.28	BS2
ATOM	33764	NZ	LYS	B	156	168.309	158.208	3.743	1.00	164.28	BS2
ATOM	33765	C	LYS	B	156	167.180	158.078	-0.437	1.00	99.86	BS2
ATOM	33766	O	LYS	B	156	167.492	157.417	0.557	1.00	99.86	BS2
ATOM	33767	N	ARG	B	157	166.188	157.735	-1.256	1.00	68.53	BS2
ATOM	33768	CA	ARG	B	157	165.368	156.540	-1.061	1.00	68.53	BS2
ATOM	33769	CB	ARG	B	157	164.055	156.916	-0.366	1.00	96.70	BS2
ATOM	33770	CG	ARG	B	157	162.892	157.111	-1.343	1.00	96.70	BS2
ATOM	33771	CD	ARG	B	157	161.740	157.902	-0.767	1.00	96.70	BS2
ATOM	33772	NE	ARG	B	157	161.639	157.778	0.682	1.00	96.70	BS2
ATOM	33773	CZ	ARG	B	157	160.592	158.188	1.391	1.00	96.70	BS2
ATOM	33774	NH1	ARG	B	157	159.546	158.741	0.788	1.00	96.70	BS2
ATOM	33775	NH2	ARG	B	157	160.602	158.073	2.710	1.00	96.70	BS2
ATOM	33776	C	ARG	B	157	165.072	156.073	-2.488	1.00	68.53	BS2
ATOM	33777	O	ARG	B	157	165.286	156.838	-3.430	1.00	68.53	BS2
ATOM	33778	N	LEU	B	158	164.584	154.846	-2.666	1.00	58.65	BS2
ATOM	33779	CA	LEU	B	158	164.255	154.370	-4.017	1.00	58.65	BS2
ATOM	33780	CB	LEU	B	158	163.711	152.940	-3.968	1.00	63.56	BS2
ATOM	33781	CG	LEU	B	158	164.744	151.855	-3.658	1.00	63.56	BS2
ATOM	33782	CD1	LEU	B	158	164.065	150.519	-3.488	1.00	63.56	BS2
ATOM	33783	CD2	LEU	B	158	165.757	151.797	-4.788	1.00	63.56	BS2
ATOM	33784	C	LEU	B	158	163.202	155.300	-4.622	1.00	58.65	BS2
ATOM	33785	O	LEU	B	158	162.287	155.726	-3.923	1.00	58.65	BS2
ATOM	33786	N	PRO	B	159	163.319	155.635	-5.923	1.00	60.84	BS2
ATOM	33787	CD	PRO	B	159	164.287	155.135	-6.915	1.00	100.62	BS2
ATOM	33788	CA	PRO	B	159	162.344	156.527	-6.564	1.00	60.84	BS2
ATOM	33789	CB	PRO	B	159	162.929	156.733	-7.959	1.00	100.62	BS2
ATOM	33790	CG	PRO	B	159	163.575	155.424	-8.231	1.00	100.62	BS2
ATOM	33791	C	PRO	B	159	160.931	155.946	-6.604	1.00	60.84	BS2
ATOM	33792	O	PRO	B	159	160.738	154.731	-6.516	1.00	60.84	BS2
ATOM	33793	N	ASP	B	160	159.945	156.822	-6.742	1.00	65.54	BS2
ATOM	33794	CA	ASP	B	160	158.552	156.397	-6.772	1.00	65.54	BS2



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ATOM	33795	CB	ASP	B	160	157.656	157.540	-6.287	1.00112.90	BS2
ATOM	33796	CG	ASP	B	160	157.835	157.826	-4.804	1.00112.90	BS2
ATOM	33797	OD1	ASP	B	160	157.070	157.251	-3.998	1.00112.90	BS2
ATOM	33798	OD2	ASP	B	160	158.749	158.608	-4.447	1.00112.90	BS2
ATOM	33799	C	ASP	B	160	158.142	155.956	-8.156	1.00 65.54	BS2
ATOM	33800	O	ASP	B	160	157.167	155.228	-8.330	1.00 65.54	BS2
ATOM	33801	N	ALA	B	161	158.893	156.413	-9.142	1.00 80.91	BS2
ATOM	33802	CA	ALA	B	161	158.630	156.061	-10.524	1.00 80.91	BS2
ATOM	33803	CB	ALA	B	161	157.578	156.993	-11.123	1.00 54.51	BS2
ATOM	33804	C	ALA	B	161	159.944	156.176	-11.279	1.00 80.91	BS2
ATOM	33805	O	ALA	B	161	160.987	156.501	-10.696	1.00 80.91	BS2
ATOM	33806	N	ILE	B	162	159.903	155.907	-12.574	1.00 81.97	BS2
ATOM	33807	CA	ILE	B	162	161.110	155.975	-13.366	1.00 81.97	BS2
ATOM	33808	CB	ILE	B	162	161.871	154.623	-13.285	1.00 68.38	BS2
ATOM	33809	CG2	ILE	B	162	162.500	154.243	-14.603	1.00 68.38	BS2
ATOM	33810	CG1	ILE	B	162	162.950	154.734	-12.217	1.00 68.38	BS2
ATOM	33811	CD1	ILE	B	162	163.800	153.517	-12.128	1.00 68.38	BS2
ATOM	33812	C	ILE	B	162	160.802	156.360	-14.797	1.00 81.97	BS2
ATOM	33813	O	ILE	B	162	160.047	155.682	-15.501	1.00 81.97	BS2
ATOM	33814	N	PHE	B	163	161.364	157.485	-15.213	1.00 90.93	BS2
ATOM	33815	CA	PHE	B	163	161.160	157.944	-16.564	1.00 90.93	BS2
ATOM	33816	CB	PHE	B	163	161.042	159.460	-16.606	1.00 93.71	BS2
ATOM	33817	CG	PHE	B	163	160.309	159.963	-17.801	1.00 93.71	BS2
ATOM	33818	CD1	PHE	B	163	159.674	161.194	-17.771	1.00 93.71	BS2
ATOM	33819	CD2	PHE	B	163	160.235	159.198	-18.955	1.00 93.71	BS2
ATOM	33820	CE1	PHE	B	163	158.968	161.658	-18.876	1.00 93.71	BS2
ATOM	33821	CE2	PHE	B	163	159.535	159.649	-20.065	1.00 93.71	BS2
ATOM	33822	CZ	PHE	B	163	158.898	160.881	-20.028	1.00 93.71	BS2
ATOM	33823	C	PHE	B	163	162.381	157.487	-17.322	1.00 90.93	BS2
ATOM	33824	O	PHE	B	163	163.485	157.994	-17.115	1.00 90.93	BS2
ATOM	33825	N	VAL	B	164	162.172	156.500	-18.184	1.00 73.35	BS2
ATOM	33826	CA	VAL	B	164	163.242	155.923	-18.983	1.00 73.35	BS2
ATOM	33827	CB	VAL	B	164	163.207	154.371	-18.837	1.00 70.90	BS2
ATOM	33828	CG1	VAL	B	164	162.923	153.697	-20.170	1.00 70.90	BS2
ATOM	33829	CG2	VAL	B	164	164.507	153.882	-18.235	1.00 70.90	BS2
ATOM	33830	C	VAL	B	164	163.085	156.352	-20.444	1.00 73.35	BS2
ATOM	33831	O	VAL	B	164	161.966	156.486	-20.953	1.00 73.35	BS2
ATOM	33832	N	VAL	B	165	164.201	156.579	-21.119	1.00130.72	BS2
ATOM	33833	CA	VAL	B	165	164.125	156.990	-22.508	1.00130.72	BS2
ATOM	33834	CB	VAL	B	165	165.407	157.667	-22.938	1.00 98.12	BS2
ATOM	33835	CG1	VAL	B	165	165.171	158.418	-24.233	1.00 98.12	BS2
ATOM	33836	CG2	VAL	B	165	165.874	158.607	-21.847	1.00 98.12	BS2
ATOM	33837	C	VAL	B	165	163.850	155.794	-23.416	1.00130.72	BS2
ATOM	33838	O	VAL	B	165	162.777	155.705	-24.015	1.00130.72	BS2
ATOM	33839	N	ASP	B	166	164.812	154.878	-23.525	1.00105.78	BS2
ATOM	33840	CA	ASP	B	166	164.631	153.680	-24.352	1.00105.78	BS2
ATOM	33841	CB	ASP	B	166	165.666	153.643	-25.480	1.00156.12	BS2
ATOM	33842	CG	ASP	B	166	165.364	152.570	-26.512	1.00156.12	BS2
ATOM	33843	OD1	ASP	B	166	164.208	152.510	-26.986	1.00156.12	BS2
ATOM	33844	OD2	ASP	B	166	166.281	151.796	-26.856	1.00156.12	BS2
ATOM	33845	C	ASP	B	166	164.754	152.422	-23.480	1.00105.78	BS2
ATOM	33846	O	ASP	B	166	165.862	151.999	-23.131	1.00105.78	BS2
ATOM	33847	N	PRO	B	167	163.607	151.802	-23.130	1.00 88.21	BS2
ATOM	33848	CD	PRO	B	167	162.285	152.053	-23.733	1.00 70.93	BS2
ATOM	33849	CA	PRO	B	167	163.561	150.597	-22.295	1.00 88.21	BS2
ATOM	33850	CB	PRO	B	167	162.073	150.275	-22.237	1.00 70.93	BS2
ATOM	33851	CG	PRO	B	167	161.599	150.709	-23.575	1.00 70.93	BS2
ATOM	33852	C	PRO	B	167	164.374	149.456	-22.868	1.00 88.21	BS2
ATOM	33853	O	PRO	B	167	165.158	148.835	-22.164	1.00 88.21	BS2
ATOM	33854	N	THR	B	168	164.180	149.183	-24.151	1.00105.40	BS2
ATOM	33855	CA	THR	B	168	164.916	148.113	-24.799	1.00105.40	BS2
ATOM	33856	CB	THR	B	168	164.827	148.209	-26.320	1.00 83.73	BS2
ATOM	33857	OG1	THR	B	168	163.457	148.336	-26.706	1.00 83.73	BS2
ATOM	33858	CG2	THR	B	168	165.420	146.963	-26.964	1.00 83.73	BS2
ATOM	33859	C	THR	B	168	166.378	148.227	-24.425	1.00105.40	BS2
ATOM	33860	O	THR	B	168	166.986	147.263	-23.973	1.00105.40	BS2
ATOM	33861	N	LYS	B	169	166.930	149.421	-24.608	1.00 81.98	BS2
ATOM	33862	CA	LYS	B	169	168.335	149.677	-24.314	1.00 81.98	BS2
ATOM	33863	CB	LYS	B	169	168.802	150.900	-25.120	1.00 90.53	BS2
ATOM	33864	CG	LYS	B	169	170.279	151.255	-25.001	1.00 90.53	BS2
ATOM	33865	CD	LYS	B	169	170.504	152.270	-23.895	1.00 90.53	BS2
ATOM	33866	CE	LYS	B	169	171.941	152.777	-23.864	1.00 90.53	BS2
ATOM	33867	NZ	LYS	B	169	172.922	151.737	-23.450	1.00 90.53	BS2
ATOM	33868	C	LYS	B	169	168.582	149.881	-22.818	1.00 81.98	BS2
ATOM	33869	O	LYS	B	169	169.693	149.661	-22.323	1.00 81.98	BS2
ATOM	33870	N	GLU	B	170	167.543	150.284	-22.094	1.00 86.08	BS2
ATOM	33871	CA	GLU	B	170	167.689	150.513	-20.665	1.00 86.08	BS2



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ATOM	33872	CB	GLU	B	170	167.179	151.905	-20.317	1.00112.27	BS2
ATOM	33873	CG	GLU	B	170	168.145	152.686	-19.446	1.00112.27	BS2
ATOM	33874	CD	GLU	B	170	169.474	152.977	-20.137	1.00112.27	BS2
ATOM	33875	OE1	GLU	B	170	169.469	153.724	-21.147	1.00112.27	BS2
ATOM	33876	OE2	GLU	B	170	170.519	152.462	-19.664	1.00112.27	BS2
ATOM	33877	C	GLU	B	170	166.950	149.465	-19.845	1.00 86.08	BS2
ATOM	33878	O	GLU	B	170	166.511	149.731	-18.727	1.00 86.08	BS2
ATOM	33879	N	ALA	B	171	166.844	148.264	-20.407	1.00 95.94	BS2
ATOM	33880	CA	ALA	B	171	166.138	147.157	-19.774	1.00 95.94	BS2
ATOM	33881	CB	ALA	B	171	166.150	145.949	-20.678	1.00 75.20	BS2
ATOM	33882	C	ALA	B	171	166.665	146.770	-18.414	1.00 95.94	BS2
ATOM	33883	O	ALA	B	171	165.891	146.384	-17.547	1.00 95.94	BS2
ATOM	33884	N	ILE	B	172	167.971	146.853	-18.212	1.00 78.95	BS2
ATOM	33885	CA	ILE	B	172	168.504	146.487	-16.907	1.00 78.95	BS2
ATOM	33886	CB	ILE	B	172	170.025	146.566	-16.883	1.00 69.37	BS2
ATOM	33887	CG2	ILE	B	172	170.552	145.931	-15.604	1.00 69.37	BS2
ATOM	33888	CG1	ILE	B	172	170.586	145.828	-18.093	1.00 69.37	BS2
ATOM	33889	CD1	ILE	B	172	172.074	145.984	-18.262	1.00 69.37	BS2
ATOM	33890	C	ILE	B	172	167.929	147.412	-15.830	1.00 78.95	BS2
ATOM	33891	O	ILE	B	172	167.826	147.040	-14.658	1.00 78.95	BS2
ATOM	33892	N	ALA	B	173	167.563	148.626	-16.224	1.00 88.66	BS2
ATOM	33893	CA	ALA	B	173	166.969	149.546	-15.274	1.00 88.66	BS2
ATOM	33894	CB	ALA	B	173	166.998	150.959	-15.815	1.00 73.48	BS2
ATOM	33895	C	ALA	B	173	165.535	149.057	-15.126	1.00 88.66	BS2
ATOM	33896	O	ALA	B	173	165.150	148.556	-14.074	1.00 88.66	BS2
ATOM	33897	N	VAL	B	174	164.765	149.177	-16.205	1.00 61.74	BS2
ATOM	33898	CA	VAL	B	174	163.365	148.749	-16.229	1.00 61.74	BS2
ATOM	33899	CB	VAL	B	174	162.875	148.416	-17.683	1.00 40.05	BS2
ATOM	33900	CG1	VAL	B	174	161.516	147.725	-17.626	1.00 40.05	BS2
ATOM	33901	CG2	VAL	B	174	162.760	149.693	-18.526	1.00 40.05	BS2
ATOM	33902	C	VAL	B	174	163.103	147.519	-15.367	1.00 61.74	BS2
ATOM	33903	O	VAL	B	174	162.227	147.533	-14.503	1.00 61.74	BS2
ATOM	33904	N	ARG	B	175	163.859	146.454	-15.609	1.00 73.40	BS2
ATOM	33905	CA	ARG	B	175	163.680	145.219	-14.864	1.00 73.40	BS2
ATOM	33906	CB	ARG	B	175	164.729	144.200	-15.282	1.00109.16	BS2
ATOM	33907	CG	ARG	B	175	164.514	142.822	-14.708	1.00109.16	BS2
ATOM	33908	CD	ARG	B	175	165.652	141.926	-15.134	1.00109.16	BS2
ATOM	33909	NE	ARG	B	175	165.759	141.882	-16.592	1.00109.16	BS2
ATOM	33910	CZ	ARG	B	175	166.876	141.583	-17.253	1.00109.16	BS2
ATOM	33911	NH1	ARG	B	175	167.986	141.304	-16.571	1.00109.16	BS2
ATOM	33912	NH2	ARG	B	175	166.888	141.568	-18.590	1.00109.16	BS2
ATOM	33913	C	ARG	B	175	163.766	145.469	-13.366	1.00 73.40	BS2
ATOM	33914	O	ARG	B	175	162.834	145.147	-12.635	1.00 73.40	BS2
ATOM	33915	N	GLU	B	176	164.876	146.044	-12.906	1.00 67.58	BS2
ATOM	33916	CA	GLU	B	176	165.038	146.314	-11.480	1.00 67.58	BS2
ATOM	33917	CB	GLU	B	176	166.275	147.165	-11.234	1.00 75.57	BS2
ATOM	33918	CG	GLU	B	176	167.540	146.359	-11.231	1.00 75.57	BS2
ATOM	33919	CD	GLU	B	176	168.724	147.138	-10.701	1.00 75.57	BS2
ATOM	33920	OE1	GLU	B	176	168.547	147.911	-9.732	1.00 75.57	BS2
ATOM	33921	OE2	GLU	B	176	169.840	146.974	-11.245	1.00 75.57	BS2
ATOM	33922	C	GLU	B	176	163.818	147.014	-10.910	1.00 67.58	BS2
ATOM	33923	O	GLU	B	176	163.321	146.661	-9.836	1.00 67.58	BS2
ATOM	33924	N	ALA	B	177	163.341	148.010	-11.645	1.00 67.13	BS2
ATOM	33925	CA	ALA	B	177	162.174	148.771	-11.248	1.00 67.13	BS2
ATOM	33926	CB	ALA	B	177	161.839	149.770	-12.323	1.00 60.50	BS2
ATOM	33927	C	ALA	B	177	161.015	147.803	-11.045	1.00 67.13	BS2
ATOM	33928	O	ALA	B	177	160.408	147.763	-9.978	1.00 67.13	BS2
ATOM	33929	N	ARG	B	178	160.725	147.025	-12.083	1.00 61.26	BS2
ATOM	33930	CA	ARG	B	178	159.659	146.027	-12.067	1.00 61.26	BS2
ATOM	33931	CB	ARG	B	178	159.794	145.113	-13.286	1.00 69.74	BS2
ATOM	33932	CG	ARG	B	178	158.600	145.044	-14.178	1.00 69.74	BS2
ATOM	33933	CD	ARG	B	178	158.506	146.302	-14.958	1.00 69.74	BS2
ATOM	33934	NE	ARG	B	178	157.320	146.330	-15.796	1.00 69.74	BS2
ATOM	33935	CZ	ARG	B	178	156.100	145.990	-15.387	1.00 69.74	BS2
ATOM	33936	NH1	ARG	B	178	155.888	145.576	-14.146	1.00 69.74	BS2
ATOM	33937	NH2	ARG	B	178	155.075	146.108	-16.213	1.00 69.74	BS2
ATOM	33938	C	ARG	B	178	159.712	145.151	-10.809	1.00 61.26	BS2
ATOM	33939	O	ARG	B	178	158.723	145.016	-10.095	1.00 61.26	BS2
ATOM	33940	N	LYS	B	179	160.865	144.536	-10.559	1.00 64.66	BS2
ATOM	33941	CA	LYS	B	179	161.023	143.663	-9.407	1.00 64.66	BS2
ATOM	33942	CB	LYS	B	179	162.425	143.055	-9.369	1.00 88.99	BS2
ATOM	33943	CG	LYS	B	179	162.684	142.297	-8.077	1.00 88.99	BS2
ATOM	33944	CD	LYS	B	179	164.097	141.787	-7.971	1.00 88.99	BS2
ATOM	33945	CE	LYS	B	179	164.354	140.694	-8.972	1.00 88.99	BS2
ATOM	33946	NZ	LYS	B	179	165.637	140.033	-8.643	1.00 88.99	BS2
ATOM	33947	C	LYS	B	179	160.785	144.431	-8.123	1.00 64.66	BS2
ATOM	33948	O	LYS	B	179	160.374	143.867	-7.109	1.00 64.66	BS2



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ATOM	33949	N	LEU	B	180	161.059	145.722	-8.155	1.00	71.67	BS2
ATOM	33950	CA	LEU	B	180	160.848	146.521	-6.972	1.00	71.67	BS2
ATOM	33951	CB	LEU	B	180	161.968	147.543	-6.850	1.00	60.36	BS2
ATOM	33952	CG	LEU	B	180	163.240	146.850	-6.368	1.00	60.36	BS2
ATOM	33953	CD1	LEU	B	180	164.383	147.850	-6.222	1.00	60.36	BS2
ATOM	33954	CD2	LEU	B	180	162.948	146.178	-5.035	1.00	60.36	BS2
ATOM	33955	C	LEU	B	180	159.484	147.204	-6.980	1.00	71.67	BS2
ATOM	33956	O	LEU	B	180	159.149	147.952	-6.071	1.00	71.67	BS2
ATOM	33957	N	PHE	B	181	158.685	146.921	-7.999	1.00	96.77	BS2
ATOM	33958	CA	PHE	B	181	157.373	147.535	-8.120	1.00	96.77	BS2
ATOM	33959	CB	PHE	B	181	156.459	147.121	-6.975	1.00	89.41	BS2
ATOM	33960	CG	PHE	B	181	156.310	145.642	-6.832	1.00	89.41	BS2
ATOM	33961	CD1	PHE	B	181	157.214	144.910	-6.063	1.00	89.41	BS2
ATOM	33962	CD2	PHE	B	181	155.265	144.973	-7.468	1.00	89.41	BS2
ATOM	33963	CE1	PHE	B	181	157.078	143.525	-5.927	1.00	89.41	BS2
ATOM	33964	CE2	PHE	B	181	155.118	143.591	-7.342	1.00	89.41	BS2
ATOM	33965	CZ	PHE	B	181	156.027	142.865	-6.569	1.00	89.41	BS2
ATOM	33966	C	PHE	B	181	157.551	149.035	-8.099	1.00	96.77	BS2
ATOM	33967	O	PHE	B	181	157.256	149.703	-7.115	1.00	96.77	BS2
ATOM	33968	N	ILE	B	182	158.071	149.556	-9.193	1.00	56.42	BS2
ATOM	33969	CA	ILE	B	182	158.270	150.977	-9.325	1.00	56.42	BS2
ATOM	33970	CB	ILE	B	182	159.761	151.319	-9.318	1.00	45.43	BS2
ATOM	33971	CG2	ILE	B	182	159.951	152.802	-9.623	1.00	45.43	BS2
ATOM	33972	CG1	ILE	B	182	160.378	150.922	-7.974	1.00	45.43	BS2
ATOM	33973	CD1	ILE	B	182	161.847	151.363	-7.809	1.00	45.43	BS2
ATOM	33974	C	ILE	B	182	157.663	151.380	-10.666	1.00	56.42	BS2
ATOM	33975	O	ILE	B	182	158.206	151.061	-11.716	1.00	56.42	BS2
ATOM	33976	N	PRO	B	183	156.522	152.082	-10.649	1.00	79.13	BS2
ATOM	33977	CD	PRO	B	183	155.888	152.778	-9.520	1.00	69.69	BS2
ATOM	33978	CA	PRO	B	183	155.906	152.487	-11.912	1.00	79.13	BS2
ATOM	33979	CB	PRO	B	183	155.050	153.673	-11.505	1.00	69.69	BS2
ATOM	33980	CG	PRO	B	183	154.617	153.295	-10.150	1.00	69.69	BS2
ATOM	33981	C	PRO	B	183	156.974	152.871	-12.921	1.00	79.13	BS2
ATOM	33982	O	PRO	B	183	157.873	153.668	-12.626	1.00	79.13	BS2
ATOM	33983	N	VAL	B	184	156.887	152.287	-14.106	1.00	63.41	BS2
ATOM	33984	CA	VAL	B	184	157.862	152.567	-15.137	1.00	63.41	BS2
ATOM	33985	CB	VAL	B	184	158.466	151.259	-15.705	1.00	55.41	BS2
ATOM	33986	CG1	VAL	B	184	158.883	151.464	-17.142	1.00	55.41	BS2
ATOM	33987	CG2	VAL	B	184	159.680	150.834	-14.863	1.00	55.41	BS2
ATOM	33988	C	VAL	B	184	157.233	153.377	-16.245	1.00	63.41	BS2
ATOM	33989	O	VAL	B	184	156.295	152.934	-16.902	1.00	63.41	BS2
ATOM	33990	N	ILE	B	185	157.757	154.581	-16.425	1.00	90.06	BS2
ATOM	33991	CA	ILE	B	185	157.284	155.492	-17.453	1.00	90.06	BS2
ATOM	33992	CB	ILE	B	185	157.157	156.921	-16.917	1.00	90.80	BS2
ATOM	33993	CG2	ILE	B	185	156.173	157.697	-17.761	1.00	90.80	BS2
ATOM	33994	CG1	ILE	B	185	156.716	156.894	-15.453	1.00	90.80	BS2
ATOM	33995	CD1	ILE	B	185	157.781	157.374	-14.485	1.00	90.80	BS2
ATOM	33996	C	ILE	B	185	158.370	155.507	-18.505	1.00	90.06	BS2
ATOM	33997	O	ILE	B	185	159.558	155.568	-18.169	1.00	90.06	BS2
ATOM	33998	N	ALA	B	186	157.990	155.455	-19.773	1.00	71.25	BS2
ATOM	33999	CA	ALA	B	186	159.015	155.474	-20.800	1.00	71.25	BS2
ATOM	34000	CB	ALA	B	186	159.676	154.121	-20.883	1.00	82.85	BS2
ATOM	34001	C	ALA	B	186	158.552	155.908	-22.180	1.00	71.25	BS2
ATOM	34002	O	ALA	B	186	157.430	155.610	-22.609	1.00	71.25	BS2
ATOM	34003	N	LEU	B	187	159.437	156.626	-22.862	1.00	95.67	BS2
ATOM	34004	CA	LEU	B	187	159.172	157.110	-24.202	1.00	95.67	BS2
ATOM	34005	CB	LEU	B	187	159.896	158.442	-24.420	1.00	91.93	BS2
ATOM	34006	CG	LEU	B	187	159.842	159.159	-25.779	1.00	91.93	BS2
ATOM	34007	CD1	LEU	B	187	161.167	158.998	-26.505	1.00	91.93	BS2
ATOM	34008	CD2	LEU	B	187	158.688	158.628	-26.619	1.00	91.93	BS2
ATOM	34009	C	LEU	B	187	159.716	156.039	-25.131	1.00	95.67	BS2
ATOM	34010	O	LEU	B	187	160.714	156.242	-25.816	1.00	95.67	BS2
ATOM	34011	N	ALA	B	188	159.062	154.885	-25.142	1.00	83.64	BS2
ATOM	34012	CA	ALA	B	188	159.503	153.774	-25.975	1.00	83.64	BS2
ATOM	34013	CB	ALA	B	188	159.326	152.469	-25.218	1.00	106.94	BS2
ATOM	34014	C	ALA	B	188	158.755	153.711	-27.298	1.00	83.64	BS2
ATOM	34015	O	ALA	B	188	157.674	154.283	-27.440	1.00	83.64	BS2
ATOM	34016	N	ASP	B	189	159.339	153.012	-28.266	1.00	97.97	BS2
ATOM	34017	CA	ASP	B	189	158.706	152.864	-29.568	1.00	97.97	BS2
ATOM	34018	CB	ASP	B	189	159.223	153.927	-30.532	1.00	108.12	BS2
ATOM	34019	CG	ASP	B	189	160.576	153.586	-31.090	1.00	108.12	BS2
ATOM	34020	OD1	ASP	B	189	161.485	153.278	-30.291	1.00	108.12	BS2
ATOM	34021	OD2	ASP	B	189	160.722	153.630	-32.328	1.00	108.12	BS2
ATOM	34022	C	ASP	B	189	158.925	151.473	-30.168	1.00	97.97	BS2
ATOM	34023	O	ASP	B	189	159.340	150.540	-29.477	1.00	97.97	BS2
ATOM	34024	N	THR	B	190	158.642	151.364	-31.463	1.00	71.55	BS2
ATOM	34025	CA	THR	B	190	158.743	150.133	-32.250	1.00	71.55	BS2



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ATOM	34026	CB	THR	B	190	159.040	150.499	-33.699	1.00	79.13	BS2
ATOM	34027	OG1	THR	B	190	157.922	151.227	-34.213	1.00	79.13	BS2
ATOM	34028	CG2	THR	B	190	159.265	149.261	-34.552	1.00	79.13	BS2
ATOM	34029	C	THR	B	190	159.681	148.999	-31.826	1.00	71.55	BS2
ATOM	34030	O	THR	B	190	159.306	147.824	-31.894	1.00	71.55	BS2
ATOM	34031	N	ASP	B	191	160.887	149.328	-31.385	1.00	86.09	BS2
ATOM	34032	CA	ASP	B	191	161.834	148.293	-30.986	1.00	86.09	BS2
ATOM	34033	CB	ASP	B	191	163.276	148.825	-31.087	1.00	132.94	BS2
ATOM	34034	CG	ASP	B	191	163.544	150.013	-30.164	1.00	132.94	BS2
ATOM	34035	OD1	ASP	B	191	162.612	150.798	-29.892	1.00	132.94	BS2
ATOM	34036	OD2	ASP	B	191	164.704	150.178	-29.727	1.00	132.94	BS2
ATOM	34037	C	ASP	B	191	161.612	147.692	-29.606	1.00	86.09	BS2
ATOM	34038	O	ASP	B	191	162.169	146.643	-29.311	1.00	86.09	BS2
ATOM	34039	N	SER	B	192	160.791	148.323	-28.769	1.00	82.47	BS2
ATOM	34040	CA	SER	B	192	160.592	147.814	-27.412	1.00	82.47	BS2
ATOM	34041	CB	SER	B	192	160.679	148.961	-26.397	1.00	113.00	BS2
ATOM	34042	OG	SER	B	192	160.624	148.471	-25.065	1.00	113.00	BS2
ATOM	34043	C	SER	B	192	159.338	147.010	-27.113	1.00	82.47	BS2
ATOM	34044	O	SER	B	192	158.425	146.903	-27.931	1.00	82.47	BS2
ATOM	34045	N	ASP	B	193	159.326	146.450	-25.904	1.00	79.82	BS2
ATOM	34046	CA	ASP	B	193	158.225	145.637	-25.394	1.00	79.82	BS2
ATOM	34047	CB	ASP	B	193	158.774	144.508	-24.510	1.00	126.85	BS2
ATOM	34048	CG	ASP	B	193	157.693	143.543	-24.035	1.00	126.85	BS2
ATOM	34049	OD1	ASP	B	193	156.664	144.005	-23.493	1.00	126.85	BS2
ATOM	34050	OD2	ASP	B	193	157.880	142.315	-24.197	1.00	126.85	BS2
ATOM	34051	C	ASP	B	193	157.337	146.537	-24.557	1.00	79.82	BS2
ATOM	34052	O	ASP	B	193	157.653	146.840	-23.414	1.00	79.82	BS2
ATOM	34053	N	PRO	B	194	156.212	146.975	-25.121	1.00	77.80	BS2
ATOM	34054	CD	PRO	B	194	155.692	146.575	-26.439	1.00	67.90	BS2
ATOM	34055	CA	PRO	B	194	155.262	147.848	-24.427	1.00	77.80	BS2
ATOM	34056	CB	PRO	B	194	154.164	148.042	-25.470	1.00	67.90	BS2
ATOM	34057	CG	PRO	B	194	154.209	146.759	-26.256	1.00	67.90	BS2
ATOM	34058	C	PRO	B	194	154.715	147.250	-23.121	1.00	77.80	BS2
ATOM	34059	O	PRO	B	194	154.401	147.976	-22.163	1.00	77.80	BS2
ATOM	34060	N	ASP	B	195	154.611	145.922	-23.092	1.00	75.44	BS2
ATOM	34061	CA	ASP	B	195	154.078	145.206	-21.938	1.00	75.44	BS2
ATOM	34062	CB	ASP	B	195	153.901	143.728	-22.285	1.00	142.93	BS2
ATOM	34063	CG	ASP	B	195	152.967	143.519	-23.461	1.00	142.93	BS2
ATOM	34064	OD1	ASP	B	195	151.808	143.983	-23.403	1.00	142.93	BS2
ATOM	34065	OD2	ASP	B	195	153.392	142.885	-24.445	1.00	142.93	BS2
ATOM	34066	C	ASP	B	195	154.887	145.337	-20.656	1.00	75.44	BS2
ATOM	34067	O	ASP	B	195	154.427	144.923	-19.600	1.00	75.44	BS2
ATOM	34068	N	LEU	B	196	156.084	145.908	-20.737	1.00	57.51	BS2
ATOM	34069	CA	LEU	B	196	156.916	146.074	-19.548	1.00	57.51	BS2
ATOM	34070	CB	LEU	B	196	158.360	145.650	-19.818	1.00	78.86	BS2
ATOM	34071	CG	LEU	B	196	158.592	144.182	-20.163	1.00	78.86	BS2
ATOM	34072	CD1	LEU	B	196	160.076	143.851	-20.056	1.00	78.86	BS2
ATOM	34073	CD2	LEU	B	196	157.793	143.318	-19.204	1.00	78.86	BS2
ATOM	34074	C	LEU	B	196	156.909	147.519	-19.099	1.00	57.51	BS2
ATOM	34075	O	LEU	B	196	157.479	147.865	-18.065	1.00	57.51	BS2
ATOM	34076	N	VAL	B	197	156.274	148.370	-19.891	1.00	80.88	BS2
ATOM	34077	CA	VAL	B	197	156.207	149.777	-19.549	1.00	80.88	BS2
ATOM	34078	CB	VAL	B	197	156.262	150.669	-20.799	1.00	85.57	BS2
ATOM	34079	CG1	VAL	B	197	156.946	151.986	-20.467	1.00	85.57	BS2
ATOM	34080	CG2	VAL	B	197	156.971	149.952	-21.924	1.00	85.57	BS2
ATOM	34081	C	VAL	B	197	154.868	149.975	-18.870	1.00	80.88	BS2
ATOM	34082	O	VAL	B	197	153.824	149.591	-19.406	1.00	80.88	BS2
ATOM	34083	N	ASP	B	198	154.902	150.559	-17.681	1.00	82.85	BS2
ATOM	34084	CA	ASP	B	198	153.688	150.807	-16.926	1.00	82.85	BS2
ATOM	34085	CB	ASP	B	198	154.067	151.159	-15.491	1.00	100.13	BS2
ATOM	34086	CG	ASP	B	198	154.798	150.020	-14.798	1.00	100.13	BS2
ATOM	34087	OD1	ASP	B	198	154.186	148.942	-14.623	1.00	100.13	BS2
ATOM	34088	OD2	ASP	B	198	155.981	150.191	-14.439	1.00	100.13	BS2
ATOM	34089	C	ASP	B	198	152.874	151.915	-17.593	1.00	82.85	BS2
ATOM	34090	O	ASP	B	198	151.678	151.756	-17.826	1.00	82.85	BS2
ATOM	34091	N	TYR	B	199	153.528	153.032	-17.897	1.00	91.76	BS2
ATOM	34092	CA	TYR	B	199	152.882	154.147	-18.586	1.00	91.76	BS2
ATOM	34093	CB	TYR	B	199	152.772	155.363	-17.667	1.00	84.57	BS2
ATOM	34094	CG	TYR	B	199	152.050	155.103	-16.361	1.00	84.57	BS2
ATOM	34095	CD1	TYR	B	199	152.742	154.675	-15.233	1.00	84.57	BS2
ATOM	34096	CE1	TYR	B	199	152.078	154.429	-14.032	1.00	84.57	BS2
ATOM	34097	CD2	TYR	B	199	150.673	155.277	-16.256	1.00	84.57	BS2
ATOM	34098	CE2	TYR	B	199	150.002	155.030	-15.066	1.00	84.57	BS2
ATOM	34099	CZ	TYR	B	199	150.710	154.606	-13.960	1.00	84.57	BS2
ATOM	34100	OH	TYR	B	199	150.057	154.341	-12.785	1.00	84.57	BS2
ATOM	34101	C	TYR	B	199	153.773	154.466	-19.794	1.00	91.76	BS2
ATOM	34102	O	TYR	B	199	154.899	154.950	-19.636	1.00	91.76	BS2



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ATOM	34103	N	ILE	B	200	153.270	154.189	-20.994	1.00	91.40	BS2
ATOM	34104	CA	ILE	B	200	154.051	154.397	-22.210	1.00	91.40	BS2
ATOM	34105	CB	ILE	B	200	153.799	153.290	-23.249	1.00	113.37	BS2
ATOM	34106	CG2	ILE	B	200	154.861	153.338	-24.330	1.00	113.37	BS2
ATOM	34107	CG1	ILE	B	200	153.827	151.924	-22.590	1.00	113.37	BS2
ATOM	34108	CD1	ILE	B	200	153.457	150.804	-23.541	1.00	113.37	BS2
ATOM	34109	C	ILE	B	200	153.795	155.681	-22.964	1.00	91.40	BS2
ATOM	34110	O	ILE	B	200	152.666	156.162	-23.024	1.00	91.40	BS2
ATOM	34111	N	ILE	B	201	154.863	156.222	-23.546	1.00	78.32	BS2
ATOM	34112	CA	ILE	B	201	154.789	157.403	-24.403	1.00	78.32	BS2
ATOM	34113	CB	ILE	B	201	155.588	158.618	-23.858	1.00	101.70	BS2
ATOM	34114	CG2	ILE	B	201	155.646	159.724	-24.912	1.00	101.70	BS2
ATOM	34115	CG1	ILE	B	201	154.907	159.178	-22.609	1.00	101.70	BS2
ATOM	34116	CD1	ILE	B	201	155.609	160.385	-22.020	1.00	101.70	BS2
ATOM	34117	C	ILE	B	201	155.444	156.870	-25.675	1.00	78.32	BS2
ATOM	34118	O	ILE	B	201	156.668	156.894	-25.827	1.00	78.32	BS2
ATOM	34119	N	PRO	B	202	154.626	156.330	-26.583	1.00	73.20	BS2
ATOM	34120	CD	PRO	B	202	153.158	156.269	-26.475	1.00	57.09	BS2
ATOM	34121	CA	PRO	B	202	155.076	155.764	-27.852	1.00	73.20	BS2
ATOM	34122	CB	PRO	B	202	153.862	154.966	-28.308	1.00	57.09	BS2
ATOM	34123	CG	PRO	B	202	152.740	155.843	-27.868	1.00	57.09	BS2
ATOM	34124	C	PRO	B	202	155.483	156.856	-28.832	1.00	73.20	BS2
ATOM	34125	O	PRO	B	202	154.671	157.708	-29.214	1.00	73.20	BS2
ATOM	34126	N	GLY	B	203	156.754	156.821	-29.225	1.00	93.48	BS2
ATOM	34127	CA	GLY	B	203	157.294	157.808	-30.142	1.00	93.48	BS2
ATOM	34128	C	GLY	B	203	158.809	157.733	-30.145	1.00	93.48	BS2
ATOM	34129	O	GLY	B	203	159.408	157.213	-29.198	1.00	93.48	BS2
ATOM	34130	N	ASN	B	204	159.423	158.269	-31.198	1.00	84.93	BS2
ATOM	34131	CA	ASN	B	204	160.876	158.252	-31.380	1.00	84.93	BS2
ATOM	34132	CB	ASN	B	204	161.312	159.526	-32.090	1.00	113.12	BS2
ATOM	34133	CG	ASN	B	204	161.634	159.285	-33.539	1.00	113.12	BS2
ATOM	34134	OD1	ASN	B	204	160.777	158.864	-34.316	1.00	113.12	BS2
ATOM	34135	ND2	ASN	B	204	162.880	159.540	-33.914	1.00	113.12	BS2
ATOM	34136	C	ASN	B	204	161.803	158.017	-30.184	1.00	84.93	BS2
ATOM	34137	O	ASN	B	204	162.121	158.952	-29.454	1.00	84.93	BS2
ATOM	34138	N	ASP	B	205	162.247	156.767	-30.001	1.00	101.32	BS2
ATOM	34139	CA	ASP	B	205	163.172	156.427	-28.911	1.00	101.32	BS2
ATOM	34140	CB	ASP	B	205	163.378	154.880	-28.767	1.00	94.40	BS2
ATOM	34141	CG	ASP	B	205	164.216	154.233	-29.916	1.00	94.40	BS2
ATOM	34142	OD1	ASP	B	205	163.748	154.180	-31.072	1.00	94.40	BS2
ATOM	34143	OD2	ASP	B	205	165.342	153.743	-29.653	1.00	94.40	BS2
ATOM	34144	C	ASP	B	205	164.480	157.136	-29.240	1.00	101.32	BS2
ATOM	34145	O	ASP	B	205	165.249	157.509	-28.360	1.00	101.32	BS2
ATOM	34146	N	ASP	B	206	164.701	157.338	-30.533	1.00	141.76	BS2
ATOM	34147	CA	ASP	B	206	165.884	158.019	-31.014	1.00	141.76	BS2
ATOM	34148	CB	ASP	B	206	166.362	157.376	-32.309	1.00	185.95	BS2
ATOM	34149	CG	ASP	B	206	167.609	158.022	-32.846	1.00	185.95	BS2
ATOM	34150	OD1	ASP	B	206	168.630	158.017	-32.128	1.00	185.95	BS2
ATOM	34151	OD2	ASP	B	206	167.566	158.537	-33.982	1.00	185.95	BS2
ATOM	34152	C	ASP	B	206	165.490	159.466	-31.255	1.00	141.76	BS2
ATOM	34153	O	ASP	B	206	164.429	159.901	-30.815	1.00	141.76	BS2
ATOM	34154	N	ALA	B	207	166.342	160.205	-31.954	1.00	133.72	BS2
ATOM	34155	CA	ALA	B	207	166.083	161.609	-32.260	1.00	133.72	BS2
ATOM	34156	CB	ALA	B	207	164.712	161.775	-32.945	1.00	62.53	BS2
ATOM	34157	C	ALA	B	207	166.131	162.468	-31.013	1.00	133.72	BS2
ATOM	34158	O	ALA	B	207	165.847	162.008	-29.909	1.00	133.72	BS2
ATOM	34159	N	ILE	B	208	166.496	163.727	-31.206	1.00	94.75	BS2
ATOM	34160	CA	ILE	B	208	166.569	164.676	-30.114	1.00	94.75	BS2
ATOM	34161	CB	ILE	B	208	167.829	165.568	-30.238	1.00	89.53	BS2
ATOM	34162	CG2	ILE	B	208	167.542	166.990	-29.768	1.00	89.53	BS2
ATOM	34163	CG1	ILE	B	208	168.967	164.940	-29.435	1.00	89.53	BS2
ATOM	34164	CD1	ILE	B	208	170.231	165.753	-29.423	1.00	89.53	BS2
ATOM	34165	C	ILE	B	208	165.306	165.519	-30.131	1.00	94.75	BS2
ATOM	34166	O	ILE	B	208	164.551	165.518	-29.162	1.00	94.75	BS2
ATOM	34167	N	ARG	B	209	165.067	166.218	-31.238	1.00	122.56	BS2
ATOM	34168	CA	ARG	B	209	163.884	167.060	-31.364	1.00	122.56	BS2
ATOM	34169	CB	ARG	B	209	163.617	167.358	-32.847	1.00	131.03	BS2
ATOM	34170	CG	ARG	B	209	162.472	168.341	-33.126	1.00	131.03	BS2
ATOM	34171	CD	ARG	B	209	162.754	169.764	-32.629	1.00	131.03	BS2
ATOM	34172	NE	ARG	B	209	163.880	170.393	-33.318	1.00	131.03	BS2
ATOM	34173	CZ	ARG	B	209	163.939	170.597	-34.631	1.00	131.03	BS2
ATOM	34174	NH1	ARG	B	209	162.932	170.224	-35.409	1.00	131.03	BS2
ATOM	34175	NH2	ARG	B	209	165.012	171.165	-35.167	1.00	131.03	BS2
ATOM	34176	C	ARG	B	209	162.685	166.344	-30.728	1.00	122.56	BS2
ATOM	34177	O	ARG	B	209	161.759	166.980	-30.214	1.00	122.56	BS2
ATOM	34178	N	SER	B	210	162.727	165.013	-30.749	1.00	105.25	BS2
ATOM	34179	CA	SER	B	210	161.669	164.175	-30.185	1.00	105.25	BS2



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ATOM	34180	CB	SER	B	210	161.746	162.776	-30.800	1.00	92.16	BS2
ATOM	34181	OG	SER	B	210	160.744	161.924	-30.284	1.00	92.16	BS2
ATOM	34182	C	SER	B	210	161.798	164.071	-28.671	1.00	105.25	BS2
ATOM	34183	O	SER	B	210	160.921	164.502	-27.919	1.00	105.25	BS2
ATOM	34184	N	ILE	B	211	162.904	163.482	-28.239	1.00	92.56	BS2
ATOM	34185	CA	ILE	B	211	163.186	163.313	-26.824	1.00	92.56	BS2
ATOM	34186	CB	ILE	B	211	164.628	162.831	-26.608	1.00	83.91	BS2
ATOM	34187	CG2	ILE	B	211	164.997	162.922	-25.133	1.00	83.91	BS2
ATOM	34188	CG1	ILE	B	211	164.771	161.404	-27.136	1.00	83.91	BS2
ATOM	34189	CD1	ILE	B	211	166.174	160.869	-27.079	1.00	83.91	BS2
ATOM	34190	C	ILE	B	211	162.999	164.619	-26.073	1.00	92.56	BS2
ATOM	34191	O	ILE	B	211	162.288	164.665	-25.069	1.00	92.56	BS2
ATOM	34192	N	GLN	B	212	163.645	165.673	-26.568	1.00	95.88	BS2
ATOM	34193	CA	GLN	B	212	163.575	167.001	-25.962	1.00	95.88	BS2
ATOM	34194	CB	GLN	B	212	164.408	167.994	-26.778	1.00	118.95	BS2
ATOM	34195	CG	GLN	B	212	164.353	169.449	-26.305	1.00	118.95	BS2
ATOM	34196	CD	GLN	B	212	163.059	170.155	-26.688	1.00	118.95	BS2
ATOM	34197	OE1	GLN	B	212	162.614	170.082	-27.836	1.00	118.95	BS2
ATOM	34198	NE2	GLN	B	212	162.457	170.854	-25.730	1.00	118.95	BS2
ATOM	34199	C	GLN	B	212	162.150	167.523	-25.825	1.00	95.88	BS2
ATOM	34200	O	GLN	B	212	161.839	168.237	-24.878	1.00	95.88	BS2
ATOM	34201	N	LEU	B	213	161.281	167.178	-26.764	1.00	78.31	BS2
ATOM	34202	CA	LEU	B	213	159.909	167.650	-26.687	1.00	78.31	BS2
ATOM	34203	CB	LEU	B	213	159.165	167.320	-27.970	1.00	83.82	BS2
ATOM	34204	CG	LEU	B	213	157.822	168.045	-28.060	1.00	83.82	BS2
ATOM	34205	CD1	LEU	B	213	157.369	167.967	-29.488	1.00	83.82	BS2
ATOM	34206	CD2	LEU	B	213	156.773	167.464	-27.104	1.00	83.82	BS2
ATOM	34207	C	LEU	B	213	159.178	167.020	-25.512	1.00	78.31	BS2
ATOM	34208	O	LEU	B	213	158.733	167.709	-24.591	1.00	78.31	BS2
ATOM	34209	N	ILE	B	214	159.044	165.701	-25.568	1.00	86.43	BS2
ATOM	34210	CA	ILE	B	214	158.364	164.953	-24.529	1.00	86.43	BS2
ATOM	34211	CB	ILE	B	214	158.460	163.459	-24.803	1.00	86.30	BS2
ATOM	34212	CG2	ILE	B	214	157.728	162.683	-23.721	1.00	86.30	BS2
ATOM	34213	CG1	ILE	B	214	157.860	163.159	-26.167	1.00	86.30	BS2
ATOM	34214	CD1	ILE	B	214	156.476	163.713	-26.348	1.00	86.30	BS2
ATOM	34215	C	ILE	B	214	158.900	165.220	-23.128	1.00	86.43	BS2
ATOM	34216	O	ILE	B	214	158.138	165.580	-22.234	1.00	86.43	BS2
ATOM	34217	N	LEU	B	215	160.202	165.029	-22.934	1.00	94.97	BS2
ATOM	34218	CA	LEU	B	215	160.808	165.256	-21.627	1.00	94.97	BS2
ATOM	34219	CB	LEU	B	215	162.312	164.992	-21.664	1.00	86.62	BS2
ATOM	34220	CG	LEU	B	215	162.688	163.513	-21.564	1.00	86.62	BS2
ATOM	34221	CD1	LEU	B	215	164.179	163.396	-21.232	1.00	86.62	BS2
ATOM	34222	CD2	LEU	B	215	161.849	162.831	-20.476	1.00	86.62	BS2
ATOM	34223	C	LEU	B	215	160.563	166.656	-21.091	1.00	94.97	BS2
ATOM	34224	O	LEU	B	215	160.029	166.818	-19.994	1.00	94.97	BS2
ATOM	34225	N	SER	B	216	160.962	167.665	-21.854	1.00	91.82	BS2
ATOM	34226	CA	SER	B	216	160.759	169.044	-21.433	1.00	91.82	BS2
ATOM	34227	CB	SER	B	216	161.068	170.003	-22.581	1.00	120.72	BS2
ATOM	34228	OG	SER	B	216	160.264	169.706	-23.710	1.00	120.72	BS2
ATOM	34229	C	SER	B	216	159.312	169.219	-20.980	1.00	91.82	BS2
ATOM	34230	O	SER	B	216	159.068	169.706	-19.875	1.00	91.82	BS2
ATOM	34231	N	ARG	B	217	158.362	168.808	-21.827	1.00	79.33	BS2
ATOM	34232	CA	ARG	B	217	156.938	168.916	-21.504	1.00	79.33	BS2
ATOM	34233	CB	ARG	B	217	156.075	168.316	-22.616	1.00	96.54	BS2
ATOM	34234	CG	ARG	B	217	156.052	169.127	-23.898	1.00	96.54	BS2
ATOM	34235	CD	ARG	B	217	155.639	170.591	-23.650	1.00	96.54	BS2
ATOM	34236	NE	ARG	B	217	155.541	171.359	-24.899	1.00	96.54	BS2
ATOM	34237	CZ	ARG	B	217	154.432	171.495	-25.633	1.00	96.54	BS2
ATOM	34238	NH1	ARG	B	217	153.287	170.925	-25.250	1.00	96.54	BS2
ATOM	34239	NH2	ARG	B	217	154.473	172.182	-26.775	1.00	96.54	BS2
ATOM	34240	C	ARG	B	217	156.617	168.220	-20.184	1.00	79.33	BS2
ATOM	34241	O	ARG	B	217	155.903	168.764	-19.345	1.00	79.33	BS2
ATOM	34242	N	ALA	B	218	157.146	167.016	-19.997	1.00	81.76	BS2
ATOM	34243	CA	ALA	B	218	156.905	166.274	-18.769	1.00	81.76	BS2
ATOM	34244	CB	ALA	B	218	157.492	164.872	-18.883	1.00	94.38	BS2
ATOM	34245	C	ALA	B	218	157.506	167.007	-17.570	1.00	81.76	BS2
ATOM	34246	O	ALA	B	218	156.998	166.910	-16.454	1.00	81.76	BS2
ATOM	34247	N	VAL	B	219	158.586	167.746	-17.803	1.00	103.51	BS2
ATOM	34248	CA	VAL	B	219	159.239	168.487	-16.731	1.00	103.51	BS2
ATOM	34249	CB	VAL	B	219	160.688	168.854	-17.113	1.00	108.08	BS2
ATOM	34250	CG1	VAL	B	219	161.401	169.508	-15.926	1.00	108.08	BS2
ATOM	34251	CG2	VAL	B	219	161.425	167.603	-17.550	1.00	108.08	BS2
ATOM	34252	C	VAL	B	219	158.465	169.762	-16.377	1.00	103.51	BS2
ATOM	34253	O	VAL	B	219	158.269	170.071	-15.198	1.00	103.51	BS2
ATOM	34254	N	ASP	B	220	158.032	170.507	-17.390	1.00	114.23	BS2
ATOM	34255	CA	ASP	B	220	157.261	171.719	-17.132	1.00	114.23	BS2
ATOM	34256	CB	ASP	B	220	156.642	172.270	-18.425	1.00	164.39	BS2



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ATOM	34257	CG	ASP	B	220	157.626	172.315	-19.588	1.00164.39	BS2
ATOM	34258	OD1	ASP	B	220	158.756	172.817	-19.409	1.00164.39	BS2
ATOM	34259	OD2	ASP	B	220	157.256	171.858	-20.692	1.00164.39	BS2
ATOM	34260	C	ASP	B	220	156.142	171.256	-16.207	1.00114.23	BS2
ATOM	34261	O	ASP	B	220	156.015	171.722	-15.076	1.00114.23	BS2
ATOM	34262	N	LEU	B	221	155.360	170.308	-16.720	1.00 72.09	BS2
ATOM	34263	CA	LEU	B	221	154.231	169.694	-16.025	1.00 72.09	BS2
ATOM	34264	CB	LEU	B	221	153.784	168.454	-16.802	1.00 95.40	BS2
ATOM	34265	CG	LEU	B	221	152.414	167.840	-16.527	1.00 95.40	BS2
ATOM	34266	CD1	LEU	B	221	152.375	167.209	-15.144	1.00 95.40	BS2
ATOM	34267	CD2	LEU	B	221	151.358	168.918	-16.685	1.00 95.40	BS2
ATOM	34268	C	LEU	B	221	154.574	169.315	-14.581	1.00 72.09	BS2
ATOM	34269	O	LEU	B	221	153.719	169.384	-13.700	1.00 72.09	BS2
ATOM	34270	N	ILE	B	222	155.813	168.894	-14.336	1.00 86.36	BS2
ATOM	34271	CA	ILE	B	222	156.202	168.554	-12.974	1.00 86.36	BS2
ATOM	34272	CB	ILE	B	222	157.645	167.995	-12.878	1.00 79.83	BS2
ATOM	34273	CG2	ILE	B	222	158.116	168.006	-11.426	1.00 79.83	BS2
ATOM	34274	CG1	ILE	B	222	157.704	166.566	-13.418	1.00 79.83	BS2
ATOM	34275	CD1	ILE	B	222	159.028	165.865	-13.121	1.00 79.83	BS2
ATOM	34276	C	ILE	B	222	156.150	169.853	-12.193	1.00 86.36	BS2
ATOM	34277	O	ILE	B	222	155.387	169.970	-11.236	1.00 86.36	BS2
ATOM	34278	N	ILE	B	223	156.954	170.828	-12.625	1.00 83.93	BS2
ATOM	34279	CA	ILE	B	223	157.032	172.146	-11.982	1.00 83.93	BS2
ATOM	34280	CB	ILE	B	223	157.911	173.111	-12.778	1.00 90.63	BS2
ATOM	34281	CG2	ILE	B	223	157.905	174.473	-12.104	1.00 90.63	BS2
ATOM	34282	CG1	ILE	B	223	159.330	172.550	-12.885	1.00 90.63	BS2
ATOM	34283	CD1	ILE	B	223	160.234	173.316	-13.834	1.00 90.63	BS2
ATOM	34284	C	ILE	B	223	155.663	172.786	-11.852	1.00 83.93	BS2
ATOM	34285	O	ILE	B	223	155.305	173.306	-10.794	1.00 83.93	BS2
ATOM	34286	N	GLN	B	224	154.920	172.766	-12.953	1.00 83.09	BS2
ATOM	34287	CA	GLN	B	224	153.570	173.302	-12.985	1.00 83.09	BS2
ATOM	34288	CB	GLN	B	224	152.869	172.840	-14.266	1.00149.03	BS2
ATOM	34289	CG	GLN	B	224	151.567	173.546	-14.585	1.00149.03	BS2
ATOM	34290	CD	GLN	B	224	150.908	172.997	-15.839	1.00149.03	BS2
ATOM	34291	OE1	GLN	B	224	150.418	171.868	-15.854	1.00149.03	BS2
ATOM	34292	NE2	GLN	B	224	150.899	173.794	-16.901	1.00149.03	BS2
ATOM	34293	C	GLN	B	224	152.880	172.713	-11.752	1.00 83.09	BS2
ATOM	34294	O	GLN	B	224	152.695	173.392	-10.744	1.00 83.09	BS2
ATOM	34295	N	ALA	B	225	152.545	171.430	-11.822	1.00 89.76	BS2
ATOM	34296	CA	ALA	B	225	151.888	170.744	-10.719	1.00 89.76	BS2
ATOM	34297	CB	ALA	B	225	151.683	169.281	-11.081	1.00104.65	BS2
ATOM	34298	C	ALA	B	225	152.626	170.856	-9.378	1.00 89.76	BS2
ATOM	34299	O	ALA	B	225	152.215	170.245	-8.394	1.00 89.76	BS2
ATOM	34300	N	ARG	B	226	153.710	171.623	-9.331	1.00113.31	BS2
ATOM	34301	CA	ARG	B	226	154.450	171.798	-8.085	1.00113.31	BS2
ATOM	34302	CB	ARG	B	226	155.913	171.401	-8.265	1.00104.49	BS2
ATOM	34303	CG	ARG	B	226	156.107	169.915	-8.232	1.00104.49	BS2
ATOM	34304	CD	ARG	B	226	156.997	169.497	-7.084	1.00104.49	BS2
ATOM	34305	NE	ARG	B	226	158.405	169.523	-7.466	1.00104.49	BS2
ATOM	34306	CZ	ARG	B	226	159.251	168.511	-7.275	1.00104.49	BS2
ATOM	34307	NH1	ARG	B	226	158.834	167.386	-6.701	1.00104.49	BS2
ATOM	34308	NH2	ARG	B	226	160.515	168.620	-7.673	1.00104.49	BS2
ATOM	34309	C	ARG	B	226	154.362	173.230	-7.578	1.00113.31	BS2
ATOM	34310	O	ARG	B	226	154.941	173.564	-6.542	1.00113.31	BS2
ATOM	34311	N	GLY	B	227	153.629	174.065	-8.312	1.00145.14	BS2
ATOM	34312	CA	GLY	B	227	153.465	175.460	-7.938	1.00145.14	BS2
ATOM	34313	C	GLY	B	227	154.699	176.287	-8.246	1.00145.14	BS2
ATOM	34314	O	GLY	B	227	155.242	176.959	-7.369	1.00145.14	BS2
ATOM	34315	N	GLY	B	228	155.146	176.242	-9.496	1.00133.70	BS2
ATOM	34316	CA	GLY	B	228	156.328	176.991	-9.876	1.00133.70	BS2
ATOM	34317	C	GLY	B	228	156.145	177.879	-11.089	1.00133.70	BS2
ATOM	34318	O	GLY	B	228	156.944	178.792	-11.308	1.00133.70	BS2
ATOM	34319	N	VAL	B	229	155.100	177.616	-11.873	1.00152.86	BS2
ATOM	34320	CA	VAL	B	229	154.817	178.398	-13.072	1.00152.86	BS2
ATOM	34321	CB	VAL	B	229	153.924	179.614	-12.736	1.00195.63	BS2
ATOM	34322	CG1	VAL	B	229	153.478	180.307	-14.013	1.00195.63	BS2
ATOM	34323	CG2	VAL	B	229	152.720	179.165	-11.920	1.00195.63	BS2
ATOM	34324	C	VAL	B	229	156.147	178.884	-13.640	1.00152.86	BS2
ATOM	34325	O	VAL	B	229	156.429	180.081	-13.663	1.00152.86	BS2
ATOM	34326	N	VAL	B	230	156.966	177.936	-14.084	1.00114.94	BS2
ATOM	34327	CA	VAL	B	230	158.288	178.236	-14.619	1.00114.94	BS2
ATOM	34328	CB	VAL	B	230	159.268	177.074	-14.263	1.00 92.47	BS2
ATOM	34329	CG1	VAL	B	230	160.544	177.145	-15.096	1.00 92.47	BS2
ATOM	34330	CG2	VAL	B	230	159.614	177.147	-12.775	1.00 92.47	BS2
ATOM	34331	C	VAL	B	230	158.321	178.539	-16.121	1.00114.94	BS2
ATOM	34332	O	VAL	B	230	157.402	178.194	-16.864	1.00114.94	BS2
ATOM	34333	N	GLU	B	231	159.393	179.204	-16.543	1.00166.74	BS2



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ATOM	34334	CA	GLU	B	231	159.610	179.598	-17.932	1.00166.74	BS2
ATOM	34335	CB	GLU	B	231	160.589	180.774	-17.967	1.00181.06	BS2
ATOM	34336	CG	GLU	B	231	161.740	180.663	-16.964	1.00181.06	BS2
ATOM	34337	CD	GLU	B	231	162.417	179.300	-16.972	1.00181.06	BS2
ATOM	34338	OE1	GLU	B	231	162.763	178.809	-18.065	1.00181.06	BS2
ATOM	34339	OE2	GLU	B	231	162.615	178.720	-15.884	1.00181.06	BS2
ATOM	34340	C	GLU	B	231	160.142	178.469	-18.817	1.00166.74	BS2
ATOM	34341	O	GLU	B	231	160.619	177.452	-18.315	1.00166.74	BS2
ATOM	34342	N	PRO	B	232	160.072	178.644	-20.153	1.00183.57	BS2
ATOM	34343	CD	PRO	B	232	159.481	179.813	-20.834	1.00126.90	BS2
ATOM	34344	CA	PRO	B	232	160.538	177.664	-21.140	1.00183.57	BS2
ATOM	34345	CB	PRO	B	232	160.655	178.502	-22.405	1.00126.90	BS2
ATOM	34346	CG	PRO	B	232	159.442	179.370	-22.294	1.00126.90	BS2
ATOM	34347	C	PRO	B	232	161.838	176.941	-20.779	1.00183.57	BS2
ATOM	34348	O	PRO	B	232	162.615	177.407	-19.949	1.00183.57	BS2
ATOM	34349	N	SER	B	233	162.066	175.803	-21.426	1.00158.52	BS2
ATOM	34350	CA	SER	B	233	163.239	174.972	-21.164	1.00158.52	BS2
ATOM	34351	CB	SER	B	233	162.846	173.502	-21.369	1.00133.09	BS2
ATOM	34352	OG	SER	B	233	163.824	172.615	-20.862	1.00133.09	BS2
ATOM	34353	C	SER	B	233	164.478	175.313	-22.012	1.00158.52	BS2
ATOM	34354	O	SER	B	233	164.364	175.588	-23.208	1.00158.52	BS2
ATOM	34355	N	PRO	B	234	165.680	175.299	-21.391	1.00159.91	BS2
ATOM	34356	CD	PRO	B	234	165.872	175.139	-19.936	1.00113.58	BS2
ATOM	34357	CA	PRO	B	234	166.966	175.595	-22.041	1.00159.91	BS2
ATOM	34358	CB	PRO	B	234	167.893	175.863	-20.857	1.00113.58	BS2
ATOM	34359	CG	PRO	B	234	167.376	174.927	-19.826	1.00113.58	BS2
ATOM	34360	C	PRO	B	234	167.502	174.466	-22.920	1.00159.91	BS2
ATOM	34361	O	PRO	B	234	168.443	174.659	-23.689	1.00159.91	BS2
ATOM	34362	N	SER	B	235	166.901	173.289	-22.787	1.00170.09	BS2
ATOM	34363	CA	SER	B	235	167.303	172.108	-23.544	1.00170.09	BS2
ATOM	34364	CB	SER	B	235	166.494	170.902	-23.078	1.00127.25	BS2
ATOM	34365	OG	SER	B	235	165.111	171.097	-23.335	1.00127.25	BS2
ATOM	34366	C	SER	B	235	167.132	172.268	-25.049	1.00170.09	BS2
ATOM	34367	O	SER	B	235	167.816	171.601	-25.829	1.00170.09	BS2
ATOM	34368	N	TYR	B	236	166.211	173.137	-25.456	1.00131.71	BS2
ATOM	34369	CA	TYR	B	236	165.967	173.366	-26.874	1.00131.71	BS2
ATOM	34370	CB	TYR	B	236	164.840	174.392	-27.060	1.00128.69	BS2
ATOM	34371	CG	TYR	B	236	164.201	174.393	-28.439	1.00128.69	BS2
ATOM	34372	CD1	TYR	B	236	163.028	175.109	-28.683	1.00128.69	BS2
ATOM	34373	CE1	TYR	B	236	162.435	175.120	-29.953	1.00128.69	BS2
ATOM	34374	CD2	TYR	B	236	164.770	173.684	-29.502	1.00128.69	BS2
ATOM	34375	CE2	TYR	B	236	164.191	173.687	-30.775	1.00128.69	BS2
ATOM	34376	CZ	TYR	B	236	163.023	174.407	-30.996	1.00128.69	BS2
ATOM	34377	OH	TYR	B	236	162.448	174.412	-32.253	1.00128.69	BS2
ATOM	34378	C	TYR	B	236	167.266	173.858	-27.509	1.00131.71	BS2
ATOM	34379	O	TYR	B	236	167.475	173.721	-28.714	1.00131.71	BS2
ATOM	34380	N	ALA	B	237	168.147	174.413	-26.681	1.00131.10	BS2
ATOM	34381	CA	ALA	B	237	169.435	174.912	-27.148	1.00131.10	BS2
ATOM	34382	CB	ALA	B	237	170.141	175.665	-26.024	1.00 69.99	BS2
ATOM	34383	C	ALA	B	237	170.299	173.745	-27.621	1.00131.10	BS2
ATOM	34384	O	ALA	B	237	171.058	173.863	-28.589	1.00131.10	BS2
ATOM	34385	N	LEU	B	238	170.169	172.617	-26.929	1.00143.01	BS2
ATOM	34386	CA	LEU	B	238	170.927	171.410	-27.243	1.00143.01	BS2
ATOM	34387	CB	LEU	B	238	171.025	170.520	-26.003	1.00147.10	BS2
ATOM	34388	CG	LEU	B	238	171.874	171.069	-24.855	1.00147.10	BS2
ATOM	34389	CD1	LEU	B	238	171.632	170.252	-23.601	1.00147.10	BS2
ATOM	34390	CD2	LEU	B	238	173.343	171.037	-25.249	1.00147.10	BS2
ATOM	34391	C	LEU	B	238	170.304	170.623	-28.387	1.00143.01	BS2
ATOM	34392	O	LEU	B	238	170.799	169.562	-28.762	1.00143.01	BS2
ATOM	34393	N	VAL	B	239	169.215	171.144	-28.935	1.00155.51	BS2
ATOM	34394	CA	VAL	B	239	168.537	170.487	-30.041	1.00155.51	BS2
ATOM	34395	CB	VAL	B	239	167.096	171.003	-30.169	1.00103.08	BS2
ATOM	34396	CG1	VAL	B	239	166.386	170.342	-31.341	1.00103.08	BS2
ATOM	34397	CG2	VAL	B	239	166.356	170.714	-28.885	1.00103.08	BS2
ATOM	34398	C	VAL	B	239	169.303	170.729	-31.340	1.00155.51	BS2
ATOM	34399	O	VAL	B	239	168.933	170.217	-32.398	1.00155.51	BS2
ATOM	34400	N	GLN	B	240	170.377	171.513	-31.254	1.00198.84	BS2
ATOM	34401	CA	GLN	B	240	171.212	171.805	-32.418	1.00198.84	BS2
ATOM	34402	CB	GLN	B	240	171.257	173.311	-32.705	1.00128.20	BS2
ATOM	34403	CG	GLN	B	240	169.904	173.955	-32.975	1.00128.20	BS2
ATOM	34404	CD	GLN	B	240	169.091	174.160	-31.710	1.00128.20	BS2
ATOM	34405	OE1	GLN	B	240	169.554	174.794	-30.760	1.00128.20	BS2
ATOM	34406	NE2	GLN	B	240	167.872	173.627	-31.692	1.00128.20	BS2
ATOM	34407	C	GLN	B	240	172.628	171.301	-32.171	1.00198.84	BS2
ATOM	34408	O	GLN	B	240	173.086	170.438	-32.951	1.00198.84	BS2
ATOM	34409	OXT	GLN	B	240	173.258	171.775	-31.199	1.00178.88	BS2
TER	34409		GLN	B	240					BS2



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ATOM	34410	C	GLY	C	2	205.887	128.524	7.561	1.00	92.91	CS3
ATOM	34411	O	GLY	C	2	206.960	128.503	6.964	1.00	92.91	CS3
ATOM	34412	N	GLY	C	2	204.702	126.348	7.135	1.00	92.91	CS3
ATOM	34413	CA	GLY	C	2	205.313	127.257	8.154	1.00	92.91	CS3
ATOM	34414	N	ASN	C	3	205.165	129.626	7.734	1.00	91.90	CS3
ATOM	34415	CA	ASN	C	3	205.569	130.926	7.214	1.00	91.90	CS3
ATOM	34416	CB	ASN	C	3	204.983	131.151	5.798	1.00	101.24	CS3
ATOM	34417	CG	ASN	C	3	203.661	130.393	5.553	1.00	101.24	CS3
ATOM	34418	OD1	ASN	C	3	203.113	130.429	4.449	1.00	101.24	CS3
ATOM	34419	ND2	ASN	C	3	203.156	129.710	6.576	1.00	101.24	CS3
ATOM	34420	C	ASN	C	3	205.181	132.080	8.150	1.00	91.90	CS3
ATOM	34421	O	ASN	C	3	204.737	131.854	9.281	1.00	91.90	CS3
ATOM	34422	N	LYS	C	4	205.352	133.310	7.661	1.00	121.38	CS3
ATOM	34423	CA	LYS	C	4	205.070	134.558	8.394	1.00	121.38	CS3
ATOM	34424	CB	LYS	C	4	203.566	134.897	8.375	1.00	78.84	CS3
ATOM	34425	CG	LYS	C	4	202.600	133.726	8.321	1.00	78.84	CS3
ATOM	34426	CD	LYS	C	4	201.292	134.177	7.674	1.00	78.84	CS3
ATOM	34427	CE	LYS	C	4	200.375	133.004	7.383	1.00	78.84	CS3
ATOM	34428	NZ	LYS	C	4	199.310	133.399	6.422	1.00	78.84	CS3
ATOM	34429	O	LYS	C	4	205.628	134.741	9.812	1.00	121.38	CS3
ATOM	34430	C	LYS	C	4	205.587	133.837	10.655	1.00	121.38	CS3
ATOM	34431	N	ILE	C	5	206.150	135.943	10.053	1.00	108.60	CS3
ATOM	34432	CA	ILE	C	5	206.766	136.304	11.326	1.00	108.60	CS3
ATOM	34433	CB	ILE	C	5	207.779	137.470	11.169	1.00	65.10	CS3
ATOM	34434	CG2	ILE	C	5	209.100	136.955	10.638	1.00	65.10	CS3
ATOM	34435	CG1	ILE	C	5	207.176	138.575	10.298	1.00	65.10	CS3
ATOM	34436	CD1	ILE	C	5	205.904	139.200	10.872	1.00	65.10	CS3
ATOM	34437	C	ILE	C	5	205.829	136.734	12.434	1.00	108.60	CS3
ATOM	34438	O	ILE	C	5	204.622	136.903	12.240	1.00	108.60	CS3
ATOM	34439	N	HIS	C	6	206.433	136.931	13.602	1.00	94.63	CS3
ATOM	34440	CA	HIS	C	6	205.735	137.389	14.787	1.00	94.63	CS3
ATOM	34441	CB	HIS	C	6	206.669	137.325	15.974	1.00	104.04	CS3
ATOM	34442	CG	HIS	C	6	205.986	137.556	17.273	1.00	104.04	CS3
ATOM	34443	CD2	HIS	C	6	205.799	138.687	17.991	1.00	104.04	CS3
ATOM	34444	ND1	HIS	C	6	205.373	136.544	17.978	1.00	104.04	CS3
ATOM	34445	CE1	HIS	C	6	204.841	137.041	19.080	1.00	104.04	CS3
ATOM	34446	NE2	HIS	C	6	205.085	138.340	19.112	1.00	104.04	CS3
ATOM	34447	C	HIS	C	6	205.391	138.841	14.477	1.00	94.63	CS3
ATOM	34448	O	HIS	C	6	206.264	139.707	14.445	1.00	94.63	CS3
ATOM	34449	N	PRO	C	7	204.107	139.125	14.246	1.00	79.71	CS3
ATOM	34450	CD	PRO	C	7	202.978	138.247	14.593	1.00	91.43	CS3
ATOM	34451	CA	PRO	C	7	203.642	140.480	13.920	1.00	79.71	CS3
ATOM	34452	CB	PRO	C	7	202.120	140.359	14.038	1.00	91.43	CS3
ATOM	34453	CG	PRO	C	7	201.936	139.234	15.019	1.00	91.43	CS3
ATOM	34454	C	PRO	C	7	204.223	141.614	14.764	1.00	79.71	CS3
ATOM	34455	O	PRO	C	7	204.144	142.787	14.380	1.00	79.71	CS3
ATOM	34456	N	ILE	C	8	204.818	141.253	15.900	1.00	83.91	CS3
ATOM	34457	CA	ILE	C	8	205.416	142.223	16.813	1.00	83.91	CS3
ATOM	34458	CB	ILE	C	8	205.206	141.796	18.273	1.00	91.10	CS3
ATOM	34459	CG2	ILE	C	8	205.940	142.740	19.213	1.00	91.10	CS3
ATOM	34460	CG1	ILE	C	8	203.711	141.765	18.581	1.00	91.10	CS3
ATOM	34461	CD1	ILE	C	8	203.380	141.065	19.871	1.00	91.10	CS3
ATOM	34462	C	ILE	C	8	206.909	142.380	16.561	1.00	83.91	CS3
ATOM	34463	O	ILE	C	8	207.369	143.460	16.181	1.00	83.91	CS3
ATOM	34464	N	GLY	C	9	207.661	141.303	16.777	1.00	100.44	CS3
ATOM	34465	CA	GLY	C	9	209.098	141.350	16.556	1.00	100.44	CS3
ATOM	34466	C	GLY	C	9	209.426	141.950	15.200	1.00	100.44	CS3
ATOM	34467	O	GLY	C	9	210.568	142.329	14.920	1.00	100.44	CS3
ATOM	34468	N	PHE	C	10	208.404	142.034	14.355	1.00	75.81	CS3
ATOM	34469	CA	PHE	C	10	208.542	142.579	13.022	1.00	75.81	CS3
ATOM	34470	CB	PHE	C	10	207.473	141.963	12.099	1.00	79.32	CS3
ATOM	34471	CG	PHE	C	10	207.494	142.501	10.679	1.00	79.32	CS3
ATOM	34472	CD1	PHE	C	10	208.684	142.580	9.958	1.00	79.32	CS3
ATOM	34473	CD2	PHE	C	10	206.320	142.935	10.065	1.00	79.32	CS3
ATOM	34474	CE1	PHE	C	10	208.700	143.087	8.652	1.00	79.32	CS3
ATOM	34475	CE2	PHE	C	10	206.330	143.442	8.760	1.00	79.32	CS3
ATOM	34476	CZ	PHE	C	10	207.522	143.518	8.055	1.00	79.32	CS3
ATOM	34477	C	PHE	C	10	208.406	144.095	13.069	1.00	75.81	CS3
ATOM	34478	O	PHE	C	10	209.173	144.815	12.434	1.00	75.81	CS3
ATOM	34479	N	ARG	C	11	207.440	144.576	13.842	1.00	95.92	CS3
ATOM	34480	CA	ARG	C	11	207.189	146.007	13.947	1.00	95.92	CS3
ATOM	34481	CB	ARG	C	11	205.693	146.236	14.163	1.00	81.30	CS3
ATOM	34482	CG	ARG	C	11	204.872	145.704	13.013	1.00	81.30	CS3
ATOM	34483	CD	ARG	C	11	203.425	145.372	13.369	1.00	81.30	CS3
ATOM	34484	NE	ARG	C	11	202.769	144.711	12.239	1.00	81.30	CS3
ATOM	34485	CZ	ARG	C	11	202.681	145.244	11.020	1.00	81.30	CS3
ATOM	34486	NH1	ARG	C	11	203.200	146.445	10.774	1.00	81.30	CS3



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ATOM	34487	NH2	ARG	C	11	202.093	144.574	10.038	1.00	81.30	CS3
ATOM	34488	C	ARG	C	11	207.983	146.703	15.045	1.00	95.92	CS3
ATOM	34489	O	ARG	C	11	207.877	147.919	15.204	1.00	95.92	CS3
ATOM	34490	N	LEU	C	12	208.796	145.942	15.778	1.00	71.56	CS3
ATOM	34491	CA	LEU	C	12	209.576	146.491	16.888	1.00	71.56	CS3
ATOM	34492	CB	LEU	C	12	210.512	145.426	17.454	1.00	50.38	CS3
ATOM	34493	CG	LEU	C	12	209.788	144.587	18.513	1.00	50.38	CS3
ATOM	34494	CD1	LEU	C	12	210.749	143.709	19.318	1.00	50.38	CS3
ATOM	34495	CD2	LEU	C	12	209.075	145.563	19.448	1.00	50.38	CS3
ATOM	34496	C	LEU	C	12	210.347	147.783	16.677	1.00	71.56	CS3
ATOM	34497	O	LEU	C	12	210.631	148.498	17.635	1.00	71.56	CS3
ATOM	34498	N	GLY	C	13	210.697	148.094	15.440	1.00105.21		CS3
ATOM	34499	CA	GLY	C	13	211.409	149.334	15.206	1.00105.21		CS3
ATOM	34500	C	GLY	C	13	210.414	150.472	15.272	1.00105.21		CS3
ATOM	34501	O	GLY	C	13	210.627	151.484	15.942	1.00105.21		CS3
ATOM	34502	N	ILE	C	14	209.306	150.292	14.566	1.00	96.38	CS3
ATOM	34503	CA	ILE	C	14	208.261	151.293	14.537	1.00	96.38	CS3
ATOM	34504	CB	ILE	C	14	207.730	151.494	13.104	1.00109.71		CS3
ATOM	34505	CG2	ILE	C	14	207.102	152.881	12.981	1.00109.71		CS3
ATOM	34506	CG1	ILE	C	14	208.876	151.333	12.090	1.00109.71		CS3
ATOM	34507	CD1	ILE	C	14	210.014	152.342	12.239	1.00109.71		CS3
ATOM	34508	C	ILE	C	14	207.140	150.803	15.447	1.00	96.38	CS3
ATOM	34509	O	ILE	C	14	207.390	150.022	16.359	1.00	96.38	CS3
ATOM	34510	N	THR	C	15	205.917	151.255	15.188	1.00	89.30	CS3
ATOM	34511	CA	THR	C	15	204.726	150.905	15.976	1.00	89.30	CS3
ATOM	34512	CB	THR	C	15	203.493	150.744	15.045	1.00118.65		CS3
ATOM	34513	OG1	THR	C	15	203.780	149.777	14.023	1.00118.65		CS3
ATOM	34514	CG2	THR	C	15	203.124	152.089	14.404	1.00118.65		CS3
ATOM	34515	C	THR	C	15	204.759	149.690	16.929	1.00	89.30	CS3
ATOM	34516	O	THR	C	15	204.012	148.728	16.731	1.00	89.30	CS3
ATOM	34517	N	ARG	C	16	205.589	149.755	17.974	1.00	82.46	CS3
ATOM	34518	CA	ARG	C	16	205.702	148.672	18.959	1.00	82.46	CS3
ATOM	34519	CB	ARG	C	16	205.496	147.313	18.288	1.00	92.66	CS3
ATOM	34520	CG	ARG	C	16	205.198	146.199	19.252	1.00	92.66	CS3
ATOM	34521	CD	ARG	C	16	203.787	146.301	19.773	1.00	92.66	CS3
ATOM	34522	NE	ARG	C	16	203.514	145.243	20.741	1.00	92.66	CS3
ATOM	34523	CZ	ARG	C	16	202.298	144.927	21.183	1.00	92.66	CS3
ATOM	34524	NH1	ARG	C	16	201.234	145.591	20.736	1.00	92.66	CS3
ATOM	34525	NH2	ARG	C	16	202.142	143.949	22.077	1.00	92.66	CS3
ATOM	34526	C	ARG	C	16	207.061	148.671	19.676	1.00	82.46	CS3
ATOM	34527	O	ARG	C	16	208.088	148.358	19.069	1.00	82.46	CS3
ATOM	34528	N	ASP	C	17	207.056	149.001	20.969	1.00	88.90	CS3
ATOM	34529	CA	ASP	C	17	208.284	149.045	21.771	1.00	88.90	CS3
ATOM	34530	CB	ASP	C	17	208.230	150.216	22.760	1.00146.29		CS3
ATOM	34531	CG	ASP	C	17	207.692	151.493	22.131	1.00146.29		CS3
ATOM	34532	OD1	ASP	C	17	208.260	151.963	21.121	1.00146.29		CS3
ATOM	34533	OD2	ASP	C	17	206.692	152.030	22.650	1.00146.29		CS3
ATOM	34534	C	ASP	C	17	208.507	147.743	22.541	1.00	88.90	CS3
ATOM	34535	O	ASP	C	17	207.565	146.988	22.792	1.00	88.90	CS3
ATOM	34536	N	TRP	C	18	209.762	147.491	22.908	1.00106.76		CS3
ATOM	34537	CA	TRP	C	18	210.150	146.286	23.648	1.00106.76		CS3
ATOM	34538	CB	TRP	C	18	211.656	146.309	23.947	1.00108.21		CS3
ATOM	34539	CG	TRP	C	18	212.553	146.154	22.750	1.00108.21		CS3
ATOM	34540	CD2	TRP	C	18	212.745	147.097	21.695	1.00108.21		CS3
ATOM	34541	CE2	TRP	C	18	213.664	146.528	20.788	1.00108.21		CS3
ATOM	34542	CE3	TRP	C	18	212.230	148.368	21.426	1.00108.21		CS3
ATOM	34543	CD1	TRP	C	18	213.343	145.078	22.451	1.00108.21		CS3
ATOM	34544	NE1	TRP	C	18	214.013	145.296	21.274	1.00108.21		CS3
ATOM	34545	CZ2	TRP	C	18	214.078	147.186	19.630	1.00108.21		CS3
ATOM	34546	CZ3	TRP	C	18	212.642	149.023	20.273	1.00108.21		CS3
ATOM	34547	CH2	TRP	C	18	213.557	148.430	19.389	1.00108.21		CS3
ATOM	34548	C	TRP	C	18	209.401	146.162	24.973	1.00106.76		CS3
ATOM	34549	O	TRP	C	18	208.718	147.090	25.390	1.00106.76		CS3
ATOM	34550	N	GLU	C	19	209.535	145.010	25.630	1.00	94.23	CS3
ATOM	34551	CA	GLU	C	19	208.897	144.780	26.924	1.00	94.23	CS3
ATOM	34552	CB	GLU	C	19	208.300	143.372	27.013	1.00159.49		CS3
ATOM	34553	CG	GLU	C	19	206.893	143.255	26.433	1.00159.49		CS3
ATOM	34554	CD	GLU	C	19	206.241	141.915	26.735	1.00159.49		CS3
ATOM	34555	OE1	GLU	C	19	206.096	141.578	27.931	1.00159.49		CS3
ATOM	34556	OE2	GLU	C	19	205.873	141.198	25.778	1.00159.49		CS3
ATOM	34557	C	GLU	C	19	209.943	144.966	28.008	1.00	94.23	CS3
ATOM	34558	O	GLU	C	19	209.646	144.901	29.194	1.00	94.23	CS3
ATOM	34559	N	SER	C	20	211.179	145.183	27.582	1.00122.99		CS3
ATOM	34560	CA	SER	C	20	212.293	145.425	28.490	1.00122.99		CS3
ATOM	34561	CB	SER	C	20	213.154	144.163	28.681	1.00	64.81	CS3
ATOM	34562	OG	SER	C	20	212.597	143.282	29.647	1.00	64.81	CS3
ATOM	34563	C	SER	C	20	213.104	146.519	27.818	1.00122.99		CS3



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ATOM	34564	O	SER	C	20	213.443	146.406	26.638	1.00122.99	CS3
ATOM	34565	N	ARG	C	21	213.399	147.583	28.558	1.00103.05	CS3
ATOM	34566	CA	ARG	C	21	214.158	148.701	28.009	1.00103.05	CS3
ATOM	34567	CB	ARG	C	21	213.204	149.860	27.705	1.00118.46	CS3
ATOM	34568	CG	ARG	C	21	211.781	149.606	28.196	1.00118.46	CS3
ATOM	34569	CD	ARG	C	21	210.751	150.440	27.451	1.00118.46	CS3
ATOM	34570	NE	ARG	C	21	209.388	150.090	27.851	1.00118.46	CS3
ATOM	34571	CZ	ARG	C	21	208.290	150.470	27.201	1.00118.46	CS3
ATOM	34572	NH1	ARG	C	21	208.383	151.219	26.109	1.00118.46	CS3
ATOM	34573	NH2	ARG	C	21	207.095	150.098	27.641	1.00118.46	CS3
ATOM	34574	C	ARG	C	21	215.257	149.135	28.967	1.00103.05	CS3
ATOM	34575	O	ARG	C	21	215.088	150.065	29.751	1.00103.05	CS3
ATOM	34576	N	TRP	C	22	216.390	148.449	28.890	1.00113.89	CS3
ATOM	34577	CA	TRP	C	22	217.522	148.734	29.755	1.00113.89	CS3
ATOM	34578	CB	TRP	C	22	217.365	147.986	31.070	1.00100.09	CS3
ATOM	34579	CG	TRP	C	22	216.865	146.599	30.877	1.00100.09	CS3
ATOM	34580	CD2	TRP	C	22	217.651	145.418	30.640	1.00100.09	CS3
ATOM	34581	CE2	TRP	C	22	216.747	144.337	30.496	1.00100.09	CS3
ATOM	34582	CE3	TRP	C	22	219.029	145.166	30.534	1.00100.09	CS3
ATOM	34583	CD1	TRP	C	22	215.560	146.199	30.864	1.00100.09	CS3
ATOM	34584	NE1	TRP	C	22	215.480	144.844	30.637	1.00100.09	CS3
ATOM	34585	CZ2	TRP	C	22	217.179	143.014	30.251	1.00100.09	CS3
ATOM	34586	CZ3	TRP	C	22	219.458	143.844	30.288	1.00100.09	CS3
ATOM	34587	CH2	TRP	C	22	218.530	142.790	30.151	1.00100.09	CS3
ATOM	34588	C	TRP	C	22	218.838	148.321	29.122	1.00113.89	CS3
ATOM	34589	O	TRP	C	22	218.958	147.221	28.590	1.00113.89	CS3
ATOM	34590	N	TYR	C	23	219.824	149.209	29.196	1.00104.03	CS3
ATOM	34591	CA	TYR	C	23	221.157	148.957	28.654	1.00104.03	CS3
ATOM	34592	CB	TYR	C	23	221.925	150.276	28.559	1.00119.48	CS3
ATOM	34593	CG	TYR	C	23	223.336	150.146	28.044	1.00119.48	CS3
ATOM	34594	CD1	TYR	C	23	223.677	150.614	26.782	1.00119.48	CS3
ATOM	34595	CE1	TYR	C	23	224.969	150.483	26.297	1.00119.48	CS3
ATOM	34596	CD2	TYR	C	23	224.328	149.542	28.813	1.00119.48	CS3
ATOM	34597	CE2	TYR	C	23	225.617	149.399	28.340	1.00119.48	CS3
ATOM	34598	CZ	TYR	C	23	225.932	149.871	27.081	1.00119.48	CS3
ATOM	34599	OH	TYR	C	23	227.209	149.723	26.601	1.00119.48	CS3
ATOM	34600	C	TYR	C	23	221.897	147.991	29.581	1.00104.03	CS3
ATOM	34601	O	TYR	C	23	221.505	147.797	30.727	1.00104.03	CS3
ATOM	34602	N	ALA	C	24	222.964	147.384	29.082	1.00112.84	CS3
ATOM	34603	CA	ALA	C	24	223.750	146.459	29.884	1.00112.84	CS3
ATOM	34604	CB	ALA	C	24	222.833	145.416	30.535	1.00 93.37	CS3
ATOM	34605	C	ALA	C	24	224.763	145.778	28.977	1.00112.84	CS3
ATOM	34606	O	ALA	C	24	225.453	146.432	28.187	1.00112.84	CS3
ATOM	34607	N	GLY	C	25	224.867	144.462	29.117	1.00143.56	CS3
ATOM	34608	CA	GLY	C	25	225.763	143.711	28.264	1.00143.56	CS3
ATOM	34609	C	GLY	C	25	227.116	143.263	28.764	1.00143.56	CS3
ATOM	34610	O	GLY	C	25	227.442	143.340	29.948	1.00143.56	CS3
ATOM	34611	N	LYS	C	26	227.894	142.768	27.807	1.00120.18	CS3
ATOM	34612	CA	LYS	C	26	229.245	142.289	28.028	1.00120.18	CS3
ATOM	34613	CB	LYS	C	26	230.142	143.459	28.445	1.00151.55	CS3
ATOM	34614	CG	LYS	C	26	229.567	144.839	28.105	1.00151.55	CS3
ATOM	34615	CD	LYS	C	26	229.096	144.936	26.659	1.00151.55	CS3
ATOM	34616	CE	LYS	C	26	228.006	145.986	26.527	1.00151.55	CS3
ATOM	34617	NZ	LYS	C	26	227.387	145.982	25.178	1.00151.55	CS3
ATOM	34618	C	LYS	C	26	229.285	141.181	29.071	1.00120.18	CS3
ATOM	34619	O	LYS	C	26	229.289	139.996	28.732	1.00120.18	CS3
ATOM	34620	N	LYS	C	27	229.310	141.566	30.339	1.00113.27	CS3
ATOM	34621	CA	LYS	C	27	229.359	140.589	31.415	1.00113.27	CS3
ATOM	34622	CB	LYS	C	27	230.506	140.931	32.373	1.00116.26	CS3
ATOM	34623	CG	LYS	C	27	231.865	141.085	31.703	1.00116.26	CS3
ATOM	34624	CD	LYS	C	27	232.952	141.451	32.708	1.00116.26	CS3
ATOM	34625	CE	LYS	C	27	234.297	141.613	32.017	1.00116.26	CS3
ATOM	34626	NZ	LYS	C	27	235.391	141.952	32.964	1.00116.26	CS3
ATOM	34627	C	LYS	C	27	228.036	140.568	32.175	1.00113.27	CS3
ATOM	34628	O	LYS	C	27	227.822	139.729	33.054	1.00113.27	CS3
ATOM	34629	N	GLN	C	28	227.143	141.485	31.824	1.00131.12	CS3
ATOM	34630	CA	GLN	C	28	225.861	141.572	32.502	1.00131.12	CS3
ATOM	34631	CB	GLN	C	28	225.575	143.015	32.877	1.00135.08	CS3
ATOM	34632	CG	GLN	C	28	226.604	143.624	33.782	1.00135.08	CS3
ATOM	34633	CD	GLN	C	28	226.281	145.063	34.080	1.00135.08	CS3
ATOM	34634	OE1	GLN	C	28	225.298	145.363	34.759	1.00135.08	CS3
ATOM	34635	NE2	GLN	C	28	227.096	145.972	33.557	1.00135.08	CS3
ATOM	34636	C	GLN	C	28	224.678	141.029	31.718	1.00131.12	CS3
ATOM	34637	O	GLN	C	28	224.076	140.038	32.124	1.00131.12	CS3
ATOM	34638	N	TYR	C	29	224.344	141.691	30.611	1.00 78.71	CS3
ATOM	34639	CA	TYR	C	29	223.210	141.308	29.756	1.00 78.71	CS3
ATOM	34640	CB	TYR	C	29	223.586	141.412	28.280	1.00 87.30	CS3



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ATOM	34641	CG	TYR	C	29	222.441	141.850	27.393	1.00	87.30	CS3
ATOM	34642	CD1	TYR	C	29	222.342	143.174	26.946	1.00	87.30	CS3
ATOM	34643	CE1	TYR	C	29	221.283	143.583	26.144	1.00	87.30	CS3
ATOM	34644	CD2	TYR	C	29	221.446	140.950	27.014	1.00	87.30	CS3
ATOM	34645	CE2	TYR	C	29	220.382	141.351	26.217	1.00	87.30	CS3
ATOM	34646	CZ	TYR	C	29	220.310	142.664	25.787	1.00	87.30	CS3
ATOM	34647	OH	TYR	C	29	219.262	143.045	24.992	1.00	87.30	CS3
ATOM	34648	C	TYR	C	29	222.619	139.920	29.994	1.00	78.71	CS3
ATOM	34649	O	TYR	C	29	221.425	139.798	30.248	1.00	78.71	CS3
ATOM	34650	N	ARG	C	30	223.442	138.877	29.907	1.00	90.61	CS3
ATOM	34651	CA	ARG	C	30	222.946	137.518	30.101	1.00	90.61	CS3
ATOM	34652	CB	ARG	C	30	224.027	136.491	29.757	1.00	109.32	CS3
ATOM	34653	CG	ARG	C	30	225.176	136.474	30.720	1.00	109.32	CS3
ATOM	34654	CD	ARG	C	30	226.117	135.310	30.470	1.00	109.32	CS3
ATOM	34655	NE	ARG	C	30	227.331	135.472	31.262	1.00	109.32	CS3
ATOM	34656	CZ	ARG	C	30	228.173	136.497	31.133	1.00	109.32	CS3
ATOM	34657	NH1	ARG	C	30	227.943	137.453	30.236	1.00	109.32	CS3
ATOM	34658	NH2	ARG	C	30	229.235	136.583	31.923	1.00	109.32	CS3
ATOM	34659	C	ARG	C	30	222.421	137.246	31.511	1.00	90.61	CS3
ATOM	34660	O	ARG	C	30	221.549	136.401	31.697	1.00	90.61	CS3
ATOM	34661	N	HIS	C	31	222.952	137.952	32.504	1.00	102.39	CS3
ATOM	34662	CA	HIS	C	31	222.512	137.774	33.888	1.00	102.39	CS3
ATOM	34663	CB	HIS	C	31	223.604	138.241	34.853	1.00	85.48	CS3
ATOM	34664	CG	HIS	C	31	224.842	137.402	34.823	1.00	85.48	CS3
ATOM	34665	CD2	HIS	C	31	226.136	137.731	34.596	1.00	85.48	CS3
ATOM	34666	ND1	HIS	C	31	224.829	136.046	35.078	1.00	85.48	CS3
ATOM	34667	CE1	HIS	C	31	226.063	135.577	35.012	1.00	85.48	CS3
ATOM	34668	NE2	HIS	C	31	226.876	136.579	34.722	1.00	85.48	CS3
ATOM	34669	C	HIS	C	31	221.248	138.593	34.131	1.00	102.39	CS3
ATOM	34670	O	HIS	C	31	220.220	138.086	34.588	1.00	102.39	CS3
ATOM	34671	N	LEU	C	32	221.357	139.874	33.814	1.00	82.41	CS3
ATOM	34672	CA	LEU	C	32	220.280	140.833	33.966	1.00	82.41	CS3
ATOM	34673	CB	LEU	C	32	220.791	142.192	33.494	1.00	94.57	CS3
ATOM	34674	CG	LEU	C	32	220.164	143.482	34.011	1.00	94.57	CS3
ATOM	34675	CD1	LEU	C	32	220.993	144.668	33.491	1.00	94.57	CS3
ATOM	34676	CD2	LEU	C	32	218.700	143.573	33.566	1.00	94.57	CS3
ATOM	34677	C	LEU	C	32	219.033	140.413	33.168	1.00	82.41	CS3
ATOM	34678	O	LEU	C	32	217.906	140.726	33.561	1.00	82.41	CS3
ATOM	34679	N	LEU	C	33	219.243	139.706	32.053	1.00	120.76	CS3
ATOM	34680	CA	LEU	C	33	218.151	139.235	31.189	1.00	120.76	CS3
ATOM	34681	CB	LEU	C	33	218.683	138.853	29.800	1.00	93.49	CS3
ATOM	34682	CG	LEU	C	33	217.738	138.418	28.661	1.00	93.49	CS3
ATOM	34683	CD1	LEU	C	33	218.579	138.086	27.434	1.00	93.49	CS3
ATOM	34684	CD2	LEU	C	33	216.903	137.207	29.047	1.00	93.49	CS3
ATOM	34685	C	LEU	C	33	217.455	138.026	31.795	1.00	120.76	CS3
ATOM	34686	O	LEU	C	33	216.231	137.927	31.761	1.00	120.76	CS3
ATOM	34687	N	LEU	C	34	218.238	137.093	32.325	1.00	81.23	CS3
ATOM	34688	CA	LEU	C	34	217.661	135.902	32.932	1.00	81.23	CS3
ATOM	34689	CB	LEU	C	34	218.733	135.050	33.604	1.00	51.86	CS3
ATOM	34690	CG	LEU	C	34	218.322	133.582	33.782	1.00	51.86	CS3
ATOM	34691	CD1	LEU	C	34	219.422	132.835	34.505	1.00	51.86	CS3
ATOM	34692	CD2	LEU	C	34	217.024	133.478	34.543	1.00	51.86	CS3
ATOM	34693	C	LEU	C	34	216.673	136.343	33.989	1.00	81.23	CS3
ATOM	34694	O	LEU	C	34	215.587	135.775	34.114	1.00	81.23	CS3
ATOM	34695	N	GLU	C	35	217.070	137.357	34.755	1.00	106.28	CS3
ATOM	34696	CA	GLU	C	35	216.241	137.912	35.819	1.00	106.28	CS3
ATOM	34697	CB	GLU	C	35	216.945	139.118	36.436	1.00	145.67	CS3
ATOM	34698	CG	GLU	C	35	216.226	139.722	37.620	1.00	145.67	CS3
ATOM	34699	CD	GLU	C	35	217.120	140.649	38.420	1.00	145.67	CS3
ATOM	34700	OE1	GLU	C	35	218.136	140.168	38.974	1.00	145.67	CS3
ATOM	34701	OE2	GLU	C	35	216.810	141.857	38.493	1.00	145.67	CS3
ATOM	34702	C	GLU	C	35	214.858	138.317	35.310	1.00	106.28	CS3
ATOM	34703	O	GLU	C	35	213.841	137.849	35.832	1.00	106.28	CS3
ATOM	34704	N	ASP	C	36	214.828	139.185	34.296	1.00	81.85	CS3
ATOM	34705	CA	ASP	C	36	213.571	139.644	33.699	1.00	81.85	CS3
ATOM	34706	CB	ASP	C	36	213.827	140.400	32.394	1.00	137.78	CS3
ATOM	34707	CG	ASP	C	36	214.515	141.723	32.613	1.00	137.78	CS3
ATOM	34708	OD1	ASP	C	36	214.641	142.484	31.635	1.00	137.78	CS3
ATOM	34709	OD2	ASP	C	36	214.930	142.001	33.757	1.00	137.78	CS3
ATOM	34710	C	ASP	C	36	212.662	138.462	33.397	1.00	81.85	CS3
ATOM	34711	O	ASP	C	36	211.433	138.548	33.516	1.00	81.85	CS3
ATOM	34712	N	GLN	C	37	213.280	137.364	32.985	1.00	120.04	CS3
ATOM	34713	CA	GLN	C	37	212.541	136.158	32.668	1.00	120.04	CS3
ATOM	34714	CB	GLN	C	37	213.456	135.164	31.942	1.00	106.54	CS3
ATOM	34715	CG	GLN	C	37	213.117	134.969	30.457	1.00	106.54	CS3
ATOM	34716	CD	GLN	C	37	212.715	136.264	29.757	1.00	106.54	CS3
ATOM	34717	OE1	GLN	C	37	213.471	137.235	29.731	1.00	106.54	CS3



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ATOM	34718	NE2	GLN	C	37	211.517	136.278	29.186	1.00106.54	CS3
ATOM	34719	C	GLN	C	37	212.000	135.575	33.967	1.00120.04	CS3
ATOM	34720	O	GLN	C	37	210.813	135.260	34.070	1.00120.04	CS3
ATOM	34721	N	ARG	C	38	212.874	135.447	34.960	1.00115.90	CS3
ATOM	34722	CA	ARG	C	38	212.473	134.925	36.257	1.00115.90	CS3
ATOM	34723	CB	ARG	C	38	213.610	135.104	37.264	1.00125.25	CS3
ATOM	34724	CG	ARG	C	38	214.807	134.197	37.033	1.00125.25	CS3
ATOM	34725	CD	ARG	C	38	214.576	132.815	37.634	1.00125.25	CS3
ATOM	34726	NE	ARG	C	38	215.689	131.890	37.397	1.00125.25	CS3
ATOM	34727	CZ	ARG	C	38	216.975	132.174	37.607	1.00125.25	CS3
ATOM	34728	NH1	ARG	C	38	217.335	133.373	38.059	1.00125.25	CS3
ATOM	34729	NH2	ARG	C	38	217.907	131.252	37.379	1.00125.25	CS3
ATOM	34730	C	ARG	C	38	211.247	135.719	36.701	1.00115.90	CS3
ATOM	34731	O	ARG	C	38	210.241	135.145	37.133	1.00115.90	CS3
ATOM	34732	N	ILE	C	39	211.346	137.043	36.571	1.00 83.50	CS3
ATOM	34733	CA	ILE	C	39	210.270	137.960	36.940	1.00 83.50	CS3
ATOM	34734	CB	ILE	C	39	210.606	139.416	36.528	1.00 74.00	CS3
ATOM	34735	CG2	ILE	C	39	209.388	140.324	36.747	1.00 74.00	CS3
ATOM	34736	CG1	ILE	C	39	211.831	139.911	37.310	1.00 74.00	CS3
ATOM	34737	CD1	ILE	C	39	212.323	141.322	36.899	1.00 74.00	CS3
ATOM	34738	C	ILE	C	39	208.955	137.568	36.277	1.00 83.50	CS3
ATOM	34739	O	ILE	C	39	208.022	137.114	36.952	1.00 83.50	CS3
ATOM	34740	N	ARG	C	40	208.887	137.754	34.958	1.00101.22	CS3
ATOM	34741	CA	ARG	C	40	207.689	137.418	34.191	1.00101.22	CS3
ATOM	34742	CB	ARG	C	40	207.973	137.474	32.688	1.00 92.56	CS3
ATOM	34743	CG	ARG	C	40	208.368	138.841	32.169	1.00 92.56	CS3
ATOM	34744	CD	ARG	C	40	208.146	138.931	30.667	1.00 92.56	CS3
ATOM	34745	NE	ARG	C	40	208.544	140.228	30.127	1.00 92.56	CS3
ATOM	34746	CZ	ARG	C	40	209.790	140.703	30.155	1.00 92.56	CS3
ATOM	34747	NH1	ARG	C	40	210.768	139.982	30.700	1.00 92.56	CS3
ATOM	34748	NH2	ARG	C	40	210.063	141.899	29.636	1.00 92.56	CS3
ATOM	34749	C	ARG	C	40	207.229	136.016	34.565	1.00101.22	CS3
ATOM	34750	O	ARG	C	40	206.034	135.713	34.545	1.00101.22	CS3
ATOM	34751	N	GLY	C	41	208.195	135.169	34.907	1.00101.28	CS3
ATOM	34752	CA	GLY	C	41	207.885	133.810	35.299	1.00101.28	CS3
ATOM	34753	C	GLY	C	41	206.864	133.792	36.418	1.00101.28	CS3
ATOM	34754	O	GLY	C	41	205.798	133.191	36.280	1.00101.28	CS3
ATOM	34755	N	LEU	C	42	207.183	134.461	37.523	1.00108.53	CS3
ATOM	34756	CA	LEU	C	42	206.280	134.510	38.668	1.00108.53	CS3
ATOM	34757	CB	LEU	C	42	206.963	135.169	39.870	1.00133.52	CS3
ATOM	34758	CG	LEU	C	42	207.804	134.244	40.750	1.00133.52	CS3
ATOM	34759	CD1	LEU	C	42	208.418	135.051	41.872	1.00133.52	CS3
ATOM	34760	CD2	LEU	C	42	206.934	133.121	41.312	1.00133.52	CS3
ATOM	34761	C	LEU	C	42	204.981	135.237	38.380	1.00108.53	CS3
ATOM	34762	O	LEU	C	42	203.907	134.738	38.696	1.00108.53	CS3
ATOM	34763	N	LEU	C	43	205.080	136.411	37.772	1.00 89.16	CS3
ATOM	34764	CA	LEU	C	43	203.900	137.209	37.473	1.00 89.16	CS3
ATOM	34765	CB	LEU	C	43	204.318	138.526	36.831	1.00109.54	CS3
ATOM	34766	CG	LEU	C	43	205.447	139.297	37.519	1.00109.54	CS3
ATOM	34767	CD1	LEU	C	43	205.063	140.766	37.536	1.00109.54	CS3
ATOM	34768	CD2	LEU	C	43	205.684	138.806	38.943	1.00109.54	CS3
ATOM	34769	C	LEU	C	43	202.876	136.505	36.582	1.00 89.16	CS3
ATOM	34770	O	LEU	C	43	201.688	136.433	36.924	1.00 89.16	CS3
ATOM	34771	N	GLU	C	44	203.329	135.994	35.439	1.00102.22	CS3
ATOM	34772	CA	GLU	C	44	202.433	135.298	34.523	1.00102.22	CS3
ATOM	34773	CB	GLU	C	44	203.200	134.820	33.290	1.00176.44	CS3
ATOM	34774	CG	GLU	C	44	203.644	135.956	32.379	1.00176.44	CS3
ATOM	34775	CD	GLU	C	44	204.267	135.469	31.083	1.00176.44	CS3
ATOM	34776	OE1	GLU	C	44	203.629	134.647	30.389	1.00176.44	CS3
ATOM	34777	OE2	GLU	C	44	205.388	135.913	30.753	1.00176.44	CS3
ATOM	34778	C	GLU	C	44	201.766	134.121	35.219	1.00102.22	CS3
ATOM	34779	O	GLU	C	44	200.597	133.834	34.973	1.00102.22	CS3
ATOM	34780	N	LYS	C	45	202.517	133.462	36.099	1.00127.86	CS3
ATOM	34781	CA	LYS	C	45	202.043	132.304	36.865	1.00127.86	CS3
ATOM	34782	CB	LYS	C	45	203.229	131.621	37.565	1.00144.30	CS3
ATOM	34783	CG	LYS	C	45	203.655	130.275	36.993	1.00144.30	CS3
ATOM	34784	CD	LYS	C	45	202.678	129.167	37.364	1.00144.30	CS3
ATOM	34785	CE	LYS	C	45	203.217	127.797	36.954	1.00144.30	CS3
ATOM	34786	NZ	LYS	C	45	202.302	126.673	37.326	1.00144.30	CS3
ATOM	34787	C	LYS	C	45	201.003	132.675	37.923	1.00127.86	CS3
ATOM	34788	O	LYS	C	45	200.081	131.907	38.198	1.00127.86	CS3
ATOM	34789	N	GLU	C	46	201.162	133.853	38.518	1.00126.08	CS3
ATOM	34790	CA	GLU	C	46	200.258	134.311	39.566	1.00126.08	CS3
ATOM	34791	CB	GLU	C	46	201.012	135.187	40.570	1.00189.28	CS3
ATOM	34792	CG	GLU	C	46	202.277	134.568	41.140	1.00189.28	CS3
ATOM	34793	CD	GLU	C	46	202.015	133.292	41.912	1.00189.28	CS3
ATOM	34794	OE1	GLU	C	46	201.183	133.318	42.844	1.00189.28	CS3



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ATOM	34795	OE2	GLU	C	46	201.780	132.106	42.804	1.00153.59	CS3
ATOM	34796	C	GLU	C	46	198.774	134.722	39.417	1.00106.84	CS3
ATOM	34797	O	GLU	C	46	197.699	134.154	39.200	1.00106.84	CS3
ATOM	34798	N	LEU	C	47	199.000	136.012	39.169	1.00 72.89	CS3
ATOM	34799	CA	LEU	C	47	198.010	136.939	38.611	1.00 72.89	CS3
ATOM	34800	CB	LEU	C	47	198.694	138.250	38.218	1.00 68.08	CS3
ATOM	34801	CG	LEU	C	47	199.318	139.137	39.289	1.00 68.08	CS3
ATOM	34802	CD1	LEU	C	47	200.315	138.330	40.110	1.00 68.08	CS3
ATOM	34803	CD2	LEU	C	47	199.981	140.338	38.610	1.00 68.08	CS3
ATOM	34804	C	LEU	C	47	197.203	136.453	37.401	1.00 72.89	CS3
ATOM	34805	O	LEU	C	47	196.751	137.264	36.580	1.00 72.89	CS3
ATOM	34806	N	TYR	C	48	197.013	135.146	37.284	1.00103.66	CS3
ATOM	34807	CA	TYR	C	48	196.262	134.613	36.165	1.00103.66	CS3
ATOM	34808	CB	TYR	C	48	196.253	133.081	36.228	1.00115.82	CS3
ATOM	34809	CG	TYR	C	48	195.438	132.434	35.133	1.00115.82	CS3
ATOM	34810	CD1	TYR	C	48	195.401	132.980	33.846	1.00115.82	CS3
ATOM	34811	CE1	TYR	C	48	194.642	132.397	32.838	1.00115.82	CS3
ATOM	34812	CD2	TYR	C	48	194.696	131.283	35.382	1.00115.82	CS3
ATOM	34813	CE2	TYR	C	48	193.936	130.690	34.381	1.00115.82	CS3
ATOM	34814	CZ	TYR	C	48	193.912	131.252	33.114	1.00115.82	CS3
ATOM	34815	OH	TYR	C	48	193.158	130.664	32.126	1.00115.82	CS3
ATOM	34816	C	TYR	C	48	194.835	135.166	36.143	1.00103.66	CS3
ATOM	34817	O	TYR	C	48	194.451	135.887	35.212	1.00103.66	CS3
ATOM	34818	N	SER	C	49	194.071	134.847	37.186	1.00 92.40	CS3
ATOM	34819	CA	SER	C	49	192.677	135.276	37.306	1.00 92.40	CS3
ATOM	34820	CB	SER	C	49	192.066	134.725	38.596	1.00107.86	CS3
ATOM	34821	OG	SER	C	49	192.562	135.417	39.729	1.00107.86	CS3
ATOM	34822	C	SER	C	49	192.464	136.788	37.271	1.00 92.40	CS3
ATOM	34823	O	SER	C	49	191.325	137.256	37.278	1.00 92.40	CS3
ATOM	34824	N	ALA	C	50	193.548	137.553	37.237	1.00 59.99	CS3
ATOM	34825	CA	ALA	C	50	193.431	139.008	37.205	1.00 59.99	CS3
ATOM	34826	CB	ALA	C	50	194.662	139.646	37.839	1.00 77.82	CS3
ATOM	34827	C	ALA	C	50	193.252	139.530	35.783	1.00 59.99	CS3
ATOM	34828	O	ALA	C	50	192.419	140.402	35.529	1.00 59.99	CS3
ATOM	34829	N	GLY	C	51	194.046	138.993	34.862	1.00116.31	CS3
ATOM	34830	CA	GLY	C	51	193.967	139.426	33.483	1.00116.31	CS3
ATOM	34831	C	GLY	C	51	195.295	139.962	32.981	1.00116.31	CS3
ATOM	34832	O	GLY	C	51	195.360	141.052	32.415	1.00116.31	CS3
ATOM	34833	N	LEU	C	52	196.357	139.195	33.205	1.00 92.35	CS3
ATOM	34834	CA	LEU	C	52	197.704	139.558	32.768	1.00 92.35	CS3
ATOM	34835	CB	LEU	C	52	198.643	138.369	32.970	1.00 95.90	CS3
ATOM	34836	CG	LEU	C	52	198.208	137.071	32.257	1.00 95.90	CS3
ATOM	34837	CD1	LEU	C	52	199.370	136.075	32.218	1.00 95.90	CS3
ATOM	34838	CD2	LEU	C	52	196.981	136.465	32.956	1.00 95.90	CS3
ATOM	34839	C	LEU	C	52	197.689	139.928	31.285	1.00 92.35	CS3
ATOM	34840	O	LEU	C	52	197.220	139.153	30.457	1.00 92.35	CS3
ATOM	34841	N	ALA	C	53	198.201	141.102	30.935	1.00 96.01	CS3
ATOM	34842	CA	ALA	C	53	198.209	141.497	29.529	1.00 96.01	CS3
ATOM	34843	CB	ALA	C	53	197.130	142.552	29.264	1.00 51.74	CS3
ATOM	34844	C	ALA	C	53	199.563	142.016	29.076	1.00 96.01	CS3
ATOM	34845	O	ALA	C	53	199.763	142.283	27.893	1.00 96.01	CS3
ATOM	34846	N	ARG	C	54	200.490	142.165	30.017	1.00 88.68	CS3
ATOM	34847	CA	ARG	C	54	201.827	142.651	29.696	1.00 88.68	CS3
ATOM	34848	CB	ARG	C	54	201.756	143.885	28.801	1.00 99.10	CS3
ATOM	34849	CG	ARG	C	54	203.064	144.184	28.125	1.00 99.10	CS3
ATOM	34850	CD	ARG	C	54	203.069	145.562	27.517	1.00 99.10	CS3
ATOM	34851	NE	ARG	C	54	204.119	145.683	26.513	1.00 99.10	CS3
ATOM	34852	CZ	ARG	C	54	204.552	146.835	26.017	1.00 99.10	CS3
ATOM	34853	NH1	ARG	C	54	204.032	147.982	26.438	1.00 99.10	CS3
ATOM	34854	NH2	ARG	C	54	205.491	146.836	25.081	1.00 99.10	CS3
ATOM	34855	C	ARG	C	54	202.581	143.014	30.958	1.00 88.68	CS3
ATOM	34856	O	ARG	C	54	202.172	143.905	31.697	1.00 88.68	CS3
ATOM	34857	N	VAL	C	55	203.689	142.330	31.202	1.00 69.33	CS3
ATOM	34858	CA	VAL	C	55	204.483	142.602	32.385	1.00 69.33	CS3
ATOM	34859	CB	VAL	C	55	204.876	141.306	33.108	1.00 56.08	CS3
ATOM	34860	CG1	VAL	C	55	205.647	141.638	34.378	1.00 56.08	CS3
ATOM	34861	CG2	VAL	C	55	203.638	140.494	33.430	1.00 56.08	CS3
ATOM	34862	C	VAL	C	55	205.755	143.332	32.003	1.00 69.33	CS3
ATOM	34863	O	VAL	C	55	206.798	142.707	31.825	1.00 69.33	CS3
ATOM	34864	N	ASP	C	56	205.670	144.652	31.873	1.00 96.96	CS3
ATOM	34865	CA	ASP	C	56	206.834	145.455	31.518	1.00 96.96	CS3
ATOM	34866	CB	ASP	C	56	206.423	146.903	31.293	1.00100.69	CS3
ATOM	34867	CG	ASP	C	56	205.486	147.050	30.135	1.00100.69	CS3
ATOM	34868	OD1	ASP	C	56	204.509	146.274	30.073	1.00100.69	CS3
ATOM	34869	OD2	ASP	C	56	205.724	147.936	29.289	1.00100.69	CS3
ATOM	34870	C	ASP	C	56	207.888	145.399	32.609	1.00 96.96	CS3
ATOM	34871	O	ASP	C	56	207.605	145.004	33.740	1.00 96.96	CS3



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ATOM	34872	N	ILE	C	57	209.107	145.790	32.261	1.00	87.32	CS3
ATOM	34873	CA	ILE	C	57	210.199	145.803	33.221	1.00	87.32	CS3
ATOM	34874	CB	ILE	C	57	210.850	144.417	33.384	1.00	54.83	CS3
ATOM	34875	CG2	ILE	C	57	212.121	144.547	34.227	1.00	54.83	CS3
ATOM	34876	CG1	ILE	C	57	209.860	143.435	34.022	1.00	54.83	CS3
ATOM	34877	CD1	ILE	C	57	210.423	142.030	34.223	1.00	54.83	CS3
ATOM	34878	C	ILE	C	57	211.291	146.773	32.804	1.00	87.32	CS3
ATOM	34879	O	ILE	C	57	211.985	146.539	31.810	1.00	87.32	CS3
ATOM	34880	N	GLU	C	58	211.433	147.860	33.564	1.00	80.38	CS3
ATOM	34881	CA	GLU	C	58	212.457	148.864	33.302	1.00	80.38	CS3
ATOM	34882	CB	GLU	C	58	211.849	150.261	33.231	1.00134.81		CS3
ATOM	34883	CG	GLU	C	58	211.000	150.478	32.002	1.00134.81		CS3
ATOM	34884	CD	GLU	C	58	210.486	151.896	31.896	1.00134.81		CS3
ATOM	34885	OE1	GLU	C	58	209.782	152.339	32.828	1.00134.81		CS3
ATOM	34886	OE2	GLU	C	58	210.784	152.567	30.882	1.00134.81		CS3
ATOM	34887	C	GLU	C	58	213.471	148.804	34.426	1.00	80.38	CS3
ATOM	34888	O	GLU	C	58	213.227	148.174	35.458	1.00	80.38	CS3
ATOM	34889	N	ARG	C	59	214.617	149.437	34.216	1.00	91.80	CS3
ATOM	34890	CA	ARG	C	59	215.653	149.452	35.233	1.00	91.80	CS3
ATOM	34891	CB	ARG	C	59	216.463	148.156	35.217	1.00	77.96	CS3
ATOM	34892	CG	ARG	C	59	215.673	146.899	35.492	1.00	77.96	CS3
ATOM	34893	CD	ARG	C	59	216.613	145.769	35.828	1.00	77.96	CS3
ATOM	34894	NE	ARG	C	59	215.928	144.487	35.906	1.00	77.96	CS3
ATOM	34895	CZ	ARG	C	59	216.399	143.435	36.568	1.00	77.96	CS3
ATOM	34896	NH1	ARG	C	59	217.557	143.519	37.214	1.00	77.96	CS3
ATOM	34897	NH2	ARG	C	59	215.715	142.299	36.584	1.00	77.96	CS3
ATOM	34898	C	ARG	C	59	216.604	150.619	35.056	1.00	91.80	CS3
ATOM	34899	O	ARG	C	59	216.464	151.430	34.133	1.00	91.80	CS3
ATOM	34900	N	ALA	C	60	217.571	150.683	35.966	1.00131.38		CS3
ATOM	34901	CA	ALA	C	60	218.598	151.714	35.978	1.00131.38		CS3
ATOM	34902	CB	ALA	C	60	218.038	153.015	36.546	1.00	62.60	CS3
ATOM	34903	C	ALA	C	60	219.733	151.193	36.853	1.00131.38		CS3
ATOM	34904	O	ALA	C	60	220.907	151.429	36.571	1.00131.38		CS3
ATOM	34905	N	ALA	C	61	219.361	150.471	37.908	1.00125.25		CS3
ATOM	34906	CA	ALA	C	61	220.311	149.882	38.847	1.00125.25		CS3
ATOM	34907	CB	ALA	C	61	221.443	150.857	39.155	1.00	87.61	CS3
ATOM	34908	C	ALA	C	61	219.611	149.486	40.139	1.00125.25		CS3
ATOM	34909	O	ALA	C	61	219.271	150.339	40.960	1.00125.25		CS3
ATOM	34910	N	ASP	C	62	219.389	148.185	40.301	1.00171.44		CS3
ATOM	34911	CA	ASP	C	62	218.753	147.624	41.490	1.00171.44		CS3
ATOM	34912	CB	ASP	C	62	219.759	147.621	42.642	1.00130.43		CS3
ATOM	34913	CG	ASP	C	62	221.035	146.887	42.288	1.00130.43		CS3
ATOM	34914	OD1	ASP	C	62	220.968	145.667	42.031	1.00130.43		CS3
ATOM	34915	OD2	ASP	C	62	222.104	147.533	42.257	1.00130.43		CS3
ATOM	34916	C	ASP	C	62	217.450	148.298	41.932	1.00171.44		CS3
ATOM	34917	O	ASP	C	62	217.233	148.538	43.122	1.00171.44		CS3
ATOM	34918	N	ASN	C	63	216.587	148.593	40.967	1.00170.51		CS3
ATOM	34919	CA	ASN	C	63	215.293	149.213	41.235	1.00170.51		CS3
ATOM	34920	CB	ASN	C	63	215.445	150.717	41.477	1.00124.86		CS3
ATOM	34921	CG	ASN	C	63	215.957	151.033	42.869	1.00124.86		CS3
ATOM	34922	OD1	ASN	C	63	215.356	150.638	43.871	1.00124.86		CS3
ATOM	34923	ND2	ASN	C	63	217.072	151.750	42.939	1.00124.86		CS3
ATOM	34924	C	ASN	C	63	214.378	148.955	40.049	1.00170.51		CS3
ATOM	34925	O	ASN	C	63	213.967	149.873	39.339	1.00170.51		CS3
ATOM	34926	N	VAL	C	64	214.068	147.679	39.852	1.00	93.80	CS3
ATOM	34927	CA	VAL	C	64	213.223	147.223	38.760	1.00	93.80	CS3
ATOM	34928	CB	VAL	C	64	213.066	145.694	38.837	1.00	97.08	CS3
ATOM	34929	CG1	VAL	C	64	212.976	145.106	37.433	1.00	97.08	CS3
ATOM	34930	CG2	VAL	C	64	214.245	145.094	39.610	1.00	97.08	CS3
ATOM	34931	C	VAL	C	64	211.846	147.892	38.770	1.00	93.80	CS3
ATOM	34932	O	VAL	C	64	211.336	148.257	39.825	1.00	93.80	CS3
ATOM	34933	N	ALA	C	65	211.249	148.049	37.590	1.00145.10		CS3
ATOM	34934	CA	ALA	C	65	209.941	148.693	37.465	1.00145.10		CS3
ATOM	34935	CB	ALA	C	65	209.829	149.389	36.106	1.00	64.92	CS3
ATOM	34936	C	ALA	C	65	208.760	147.746	37.653	1.00145.10		CS3
ATOM	34937	O	ALA	C	65	208.035	147.832	38.644	1.00145.10		CS3
ATOM	34938	N	VAL	C	66	208.566	146.854	36.686	1.00	98.69	CS3
ATOM	34939	CA	VAL	C	66	207.470	145.890	36.718	1.00	98.69	CS3
ATOM	34940	CB	VAL	C	66	207.556	144.962	37.957	1.00	75.40	CS3
ATOM	34941	CG1	VAL	C	66	206.505	143.851	37.852	1.00	75.40	CS3
ATOM	34942	CG2	VAL	C	66	208.959	144.379	38.080	1.00	75.40	CS3
ATOM	34943	C	VAL	C	66	206.142	146.632	36.755	1.00	98.69	CS3
ATOM	34944	O	VAL	C	66	205.572	146.849	37.820	1.00	98.69	CS3
ATOM	34945	N	THR	C	67	205.656	147.016	35.582	1.00	65.44	CS3
ATOM	34946	CA	THR	C	67	204.392	147.742	35.460	1.00	65.44	CS3
ATOM	34947	CB	THR	C	67	204.547	148.894	34.459	1.00	69.38	CS3
ATOM	34948	OG1	THR	C	67	205.727	149.640	34.784	1.00	69.38	CS3



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ATOM	34949	CG2	THR	C	67	203.337	149.812	34.504	1.00	69.38	CS3
ATOM	34950	C	THR	C	67	203.241	146.831	35.002	1.00	65.44	CS3
ATOM	34951	O	THR	C	67	202.549	147.123	34.023	1.00	65.44	CS3
ATOM	34952	N	VAL	C	68	203.044	145.732	35.726	1.00	49.32	CS3
ATOM	34953	CA	VAL	C	68	202.002	144.760	35.418	1.00	49.32	CS3
ATOM	34954	CB	VAL	C	68	201.712	143.879	36.646	1.00	46.14	CS3
ATOM	34955	CG1	VAL	C	68	200.549	142.934	36.354	1.00	46.14	CS3
ATOM	34956	CG2	VAL	C	68	202.964	143.096	37.026	1.00	46.14	CS3
ATOM	34957	C	VAL	C	68	200.687	145.374	34.942	1.00	49.32	CS3
ATOM	34958	O	VAL	C	68	200.178	146.310	35.548	1.00	49.32	CS3
ATOM	34959	N	HIS	C	69	200.140	144.829	33.858	1.00	75.29	CS3
ATOM	34960	CA	HIS	C	69	198.875	145.300	33.294	1.00	75.29	CS3
ATOM	34961	CB	HIS	C	69	199.055	145.635	31.824	1.00	69.68	CS3
ATOM	34962	CG	HIS	C	69	200.004	146.759	31.585	1.00	69.68	CS3
ATOM	34963	CD2	HIS	C	69	201.355	146.781	31.512	1.00	69.68	CS3
ATOM	34964	ND1	HIS	C	69	199.587	148.062	31.429	1.00	69.68	CS3
ATOM	34965	CE1	HIS	C	69	200.642	148.841	31.269	1.00	69.68	CS3
ATOM	34966	NE2	HIS	C	69	201.728	148.089	31.317	1.00	69.68	CS3
ATOM	34967	C	HIS	C	69	197.770	144.261	33.443	1.00	75.29	CS3
ATOM	34968	O	HIS	C	69	197.921	143.105	33.036	1.00	75.29	CS3
ATOM	34969	N	VAL	C	70	196.652	144.688	34.017	1.00	116.92	CS3
ATOM	34970	CA	VAL	C	70	195.533	143.792	34.246	1.00	116.92	CS3
ATOM	34971	CB	VAL	C	70	195.565	143.284	35.702	1.00	75.53	CS3
ATOM	34972	CG1	VAL	C	70	194.462	142.271	35.928	1.00	75.53	CS3
ATOM	34973	CG2	VAL	C	70	196.927	142.663	36.002	1.00	75.53	CS3
ATOM	34974	C	VAL	C	70	194.181	144.451	33.959	1.00	116.92	CS3
ATOM	34975	O	VAL	C	70	194.054	145.674	33.991	1.00	116.92	CS3
ATOM	34976	N	ALA	C	71	193.177	143.626	33.668	1.00	104.94	CS3
ATOM	34977	CA	ALA	C	71	191.830	144.109	33.381	1.00	104.94	CS3
ATOM	34978	CB	ALA	C	71	191.149	143.174	32.398	1.00	76.67	CS3
ATOM	34979	C	ALA	C	71	191.004	144.208	34.666	1.00	104.94	CS3
ATOM	34980	O	ALA	C	71	189.949	144.846	34.687	1.00	104.94	CS3
ATOM	34981	N	LYS	C	72	191.497	143.560	35.724	1.00	92.70	CS3
ATOM	34982	CA	LYS	C	72	190.861	143.548	37.047	1.00	92.70	CS3
ATOM	34983	CB	LYS	C	72	190.207	142.190	37.303	1.00	100.68	CS3
ATOM	34984	CG	LYS	C	72	189.095	141.838	36.331	1.00	100.68	CS3
ATOM	34985	CD	LYS	C	72	188.521	140.472	36.648	1.00	100.68	CS3
ATOM	34986	CE	LYS	C	72	187.969	140.419	38.068	1.00	100.68	CS3
ATOM	34987	NZ	LYS	C	72	187.433	139.070	38.419	1.00	100.68	CS3
ATOM	34988	C	LYS	C	72	191.924	143.816	38.124	1.00	92.70	CS3
ATOM	34989	O	LYS	C	72	192.258	142.932	38.924	1.00	92.70	CS3
ATOM	34990	N	PRO	C	73	192.453	145.054	38.166	1.00	114.82	CS3
ATOM	34991	CD	PRO	C	73	191.889	146.248	37.510	1.00	75.73	CS3
ATOM	34992	CA	PRO	C	73	193.483	145.440	39.136	1.00	114.82	CS3
ATOM	34993	CB	PRO	C	73	193.611	146.950	38.923	1.00	75.73	CS3
ATOM	34994	CG	PRO	C	73	192.241	147.342	38.483	1.00	75.73	CS3
ATOM	34995	C	PRO	C	73	193.114	145.074	40.559	1.00	114.82	CS3
ATOM	34996	O	PRO	C	73	193.983	144.938	41.421	1.00	114.82	CS3
ATOM	34997	N	GLY	C	74	191.820	144.908	40.798	1.00	75.79	CS3
ATOM	34998	CA	GLY	C	74	191.377	144.550	42.128	1.00	75.79	CS3
ATOM	34999	C	GLY	C	74	192.029	143.253	42.551	1.00	75.79	CS3
ATOM	35000	O	GLY	C	74	192.669	143.163	43.605	1.00	75.79	CS3
ATOM	35001	N	VAL	C	75	191.876	142.246	41.702	1.00	73.67	CS3
ATOM	35002	CA	VAL	C	75	192.429	140.925	41.961	1.00	73.67	CS3
ATOM	35003	CB	VAL	C	75	192.276	140.034	40.701	1.00	118.05	CS3
ATOM	35004	CG1	VAL	C	75	192.475	138.562	41.064	1.00	118.05	CS3
ATOM	35005	CG2	VAL	C	75	190.903	140.266	40.067	1.00	118.05	CS3
ATOM	35006	C	VAL	C	75	193.907	141.005	42.367	1.00	73.67	CS3
ATOM	35007	O	VAL	C	75	194.374	140.262	43.240	1.00	73.67	CS3
ATOM	35008	N	VAL	C	76	194.628	141.925	41.732	1.00	151.94	CS3
ATOM	35009	CA	VAL	C	76	196.050	142.118	41.995	1.00	151.94	CS3
ATOM	35010	CB	VAL	C	76	196.684	143.083	40.966	1.00	115.10	CS3
ATOM	35011	CG1	VAL	C	76	198.193	143.041	41.078	1.00	115.10	CS3
ATOM	35012	CG2	VAL	C	76	196.247	142.718	39.566	1.00	115.10	CS3
ATOM	35013	C	VAL	C	76	196.278	142.697	43.383	1.00	151.94	CS3
ATOM	35014	O	VAL	C	76	196.826	142.033	44.266	1.00	151.94	CS3
ATOM	35015	N	ILE	C	77	195.852	143.946	43.558	1.00	156.26	CS3
ATOM	35016	CA	ILE	C	77	196.003	144.658	44.821	1.00	156.26	CS3
ATOM	35017	CB	ILE	C	77	195.097	145.901	44.879	1.00	96.96	CS3
ATOM	35018	CG2	ILE	C	77	195.391	146.677	46.149	1.00	96.96	CS3
ATOM	35019	CG1	ILE	C	77	195.321	146.789	43.651	1.00	96.96	CS3
ATOM	35020	CD1	ILE	C	77	196.682	147.454	43.605	1.00	96.96	CS3
ATOM	35021	C	ILE	C	77	195.646	143.780	46.009	1.00	156.26	CS3
ATOM	35022	O	ILE	C	77	196.524	143.294	46.723	1.00	156.26	CS3
ATOM	35023	N	GLY	C	78	194.346	143.591	46.213	1.00	116.08	CS3
ATOM	35024	CA	GLY	C	78	193.874	142.777	47.317	1.00	116.08	CS3
ATOM	35025	C	GLY	C	78	193.027	143.585	48.280	1.00	116.08	CS3



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ATOM	35026	O	GLY	C	78	192.755	144.763	48.036	1.00116.08	CS3
ATOM	35027	N	ARG	C	79	192.606	142.949	49.372	1.00135.42	CS3
ATOM	35028	CA	ARG	C	79	191.790	143.607	50.389	1.00135.42	CS3
ATOM	35029	CB	ARG	C	79	191.397	142.601	51.474	1.00161.97	CS3
ATOM	35030	CG	ARG	C	79	192.581	141.908	52.113	1.00161.97	CS3
ATOM	35031	CD	ARG	C	79	192.145	140.849	53.100	1.00161.97	CS3
ATOM	35032	NE	ARG	C	79	193.285	140.308	53.835	1.00161.97	CS3
ATOM	35033	CZ	ARG	C	79	193.192	139.401	54.803	1.00161.97	CS3
ATOM	35034	NH1	ARG	C	79	192.007	138.924	55.161	1.00161.97	CS3
ATOM	35035	NH2	ARG	C	79	194.285	138.977	55.423	1.00161.97	CS3
ATOM	35036	C	ARG	C	79	192.570	144.769	51.000	1.00135.42	CS3
ATOM	35037	O	ARG	C	79	193.487	144.569	51.803	1.00135.42	CS3
ATOM	35038	N	GLY	C	80	192.199	145.984	50.603	1.00 96.22	CS3
ATOM	35039	CA	GLY	C	80	192.870	147.173	51.094	1.00 96.22	CS3
ATOM	35040	C	GLY	C	80	194.195	147.359	50.383	1.00 96.22	CS3
ATOM	35041	O	GLY	C	80	194.589	148.480	50.058	1.00 96.22	CS3
ATOM	35042	N	GLY	C	81	194.874	146.242	50.137	1.00126.06	CS3
ATOM	35043	CA	GLY	C	81	196.160	146.265	49.465	1.00126.06	CS3
ATOM	35044	C	GLY	C	81	197.123	145.314	50.145	1.00126.06	CS3
ATOM	35045	O	GLY	C	81	198.328	145.564	50.193	1.00126.06	CS3
ATOM	35046	N	GLU	C	82	196.589	144.212	50.667	1.00152.05	CS3
ATOM	35047	CA	GLU	C	82	197.404	143.227	51.369	1.00152.05	CS3
ATOM	35048	CB	GLU	C	82	196.530	142.427	52.348	1.00142.36	CS3
ATOM	35049	CG	GLU	C	82	195.804	141.227	51.751	1.00142.36	CS3
ATOM	35050	CD	GLU	C	82	196.665	139.972	51.724	1.00142.36	CS3
ATOM	35051	OE1	GLU	C	82	197.098	139.526	52.806	1.00142.36	CS3
ATOM	35052	OE2	GLU	C	82	196.909	139.431	50.625	1.00142.36	CS3
ATOM	35053	C	GLU	C	82	198.153	142.277	50.434	1.00152.05	CS3
ATOM	35054	O	GLU	C	82	199.229	141.790	50.781	1.00152.05	CS3
ATOM	35055	N	ARG	C	83	197.593	142.013	49.255	1.00119.29	CS3
ATOM	35056	CA	ARG	C	83	198.240	141.113	48.307	1.00119.29	CS3
ATOM	35057	CB	ARG	C	83	197.230	140.534	47.318	1.00110.67	CS3
ATOM	35058	CG	ARG	C	83	197.902	139.762	46.210	1.00110.67	CS3
ATOM	35059	CD	ARG	C	83	196.966	138.820	45.494	1.00110.67	CS3
ATOM	35060	NE	ARG	C	83	197.651	138.187	44.371	1.00110.67	CS3
ATOM	35061	CZ	ARG	C	83	197.228	137.091	43.751	1.00110.67	CS3
ATOM	35062	NH1	ARG	C	83	196.111	136.487	44.143	1.00110.67	CS3
ATOM	35063	NH2	ARG	C	83	197.923	136.601	42.732	1.00110.67	CS3
ATOM	35064	C	ARG	C	83	199.380	141.775	47.544	1.00119.29	CS3
ATOM	35065	O	ARG	C	83	200.444	141.179	47.392	1.00119.29	CS3
ATOM	35066	N	ILE	C	84	199.163	142.996	47.060	1.00 98.53	CS3
ATOM	35067	CA	ILE	C	84	200.210	143.724	46.336	1.00 98.53	CS3
ATOM	35068	CB	ILE	C	84	199.704	145.126	45.868	1.00101.39	CS3
ATOM	35069	CG2	ILE	C	84	199.070	145.873	47.036	1.00101.39	CS3
ATOM	35070	CG1	ILE	C	84	200.856	145.923	45.239	1.00101.39	CS3
ATOM	35071	CD1	ILE	C	84	200.454	147.276	44.694	1.00101.39	CS3
ATOM	35072	C	ILE	C	84	201.437	143.881	47.251	1.00 98.53	CS3
ATOM	35073	O	ILE	C	84	202.495	144.362	46.840	1.00 98.53	CS3
ATOM	35074	N	ARG	C	85	201.270	143.457	48.499	1.00100.10	CS3
ATOM	35075	CA	ARG	C	85	202.320	143.501	49.505	1.00100.10	CS3
ATOM	35076	CB	ARG	C	85	201.698	143.801	50.876	1.00170.70	CS3
ATOM	35077	CG	ARG	C	85	202.502	143.340	52.086	1.00170.70	CS3
ATOM	35078	CD	ARG	C	85	203.874	143.983	52.143	1.00170.70	CS3
ATOM	35079	NE	ARG	C	85	204.547	143.705	53.410	1.00170.70	CS3
ATOM	35080	CZ	ARG	C	85	205.772	144.125	53.718	1.00170.70	CS3
ATOM	35081	NH1	ARG	C	85	206.468	144.844	52.846	1.00170.70	CS3
ATOM	35082	NH2	ARG	C	85	206.299	143.834	54.901	1.00170.70	CS3
ATOM	35083	C	ARG	C	85	203.018	142.143	49.522	1.00100.10	CS3
ATOM	35084	O	ARG	C	85	204.231	142.056	49.725	1.00100.10	CS3
ATOM	35085	N	VAL	C	86	202.238	141.088	49.302	1.00114.22	CS3
ATOM	35086	CA	VAL	C	86	202.766	139.728	49.289	1.00114.22	CS3
ATOM	35087	CB	VAL	C	86	201.629	138.671	49.306	1.00 88.09	CS3
ATOM	35088	CG1	VAL	C	86	202.092	137.417	50.046	1.00 88.09	CS3
ATOM	35089	CG2	VAL	C	86	200.383	139.248	49.950	1.00 88.09	CS3
ATOM	35090	C	VAL	C	86	203.589	139.539	48.019	1.00114.22	CS3
ATOM	35091	O	VAL	C	86	204.695	139.002	48.059	1.00114.22	CS3
ATOM	35092	N	LEU	C	87	203.038	139.982	46.893	1.00136.45	CS3
ATOM	35093	CA	LEU	C	87	203.732	139.877	45.615	1.00136.45	CS3
ATOM	35094	CB	LEU	C	87	202.878	140.464	44.482	1.00 95.12	CS3
ATOM	35095	CG	LEU	C	87	201.489	139.860	44.238	1.00 95.12	CS3
ATOM	35096	CD1	LEU	C	87	200.831	140.582	43.068	1.00 95.12	CS3
ATOM	35097	CD2	LEU	C	87	201.600	138.360	43.962	1.00 95.12	CS3
ATOM	35098	C	LEU	C	87	205.032	140.663	45.728	1.00136.45	CS3
ATOM	35099	O	LEU	C	87	206.121	140.094	45.666	1.00136.45	CS3
ATOM	35100	N	ARG	C	88	204.897	141.974	45.907	1.00 82.94	CS3
ATOM	35101	CA	ARG	C	88	206.031	142.887	46.042	1.00 82.94	CS3
ATOM	35102	CB	ARG	C	88	205.536	144.219	46.609	1.00111.90	CS3



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ATOM	35103	CG	ARG	C	88	206.149	145.447	45.980	1.00111.90	CS3
ATOM	35104	CD	ARG	C	88	205.171	146.608	46.088	1.00111.90	CS3
ATOM	35105	NE	ARG	C	88	205.587	147.763	45.297	1.00111.90	CS3
ATOM	35106	CZ	ARG	C	88	204.766	148.730	44.895	1.00111.90	CS3
ATOM	35107	NH1	ARG	C	88	203.474	148.680	45.209	1.00111.90	CS3
ATOM	35108	NH2	ARG	C	88	205.235	149.745	44.176	1.00111.90	CS3
ATOM	35109	C	ARG	C	88	207.108	142.300	46.957	1.00 82.94	CS3
ATOM	35110	O	ARG	C	88	208.299	142.581	46.800	1.00 82.94	CS3
ATOM	35111	N	GLU	C	89	206.678	141.484	47.913	1.00144.18	CS3
ATOM	35112	CA	GLU	C	89	207.601	140.858	48.844	1.00144.18	CS3
ATOM	35113	CB	GLU	C	89	206.929	140.661	50.201	1.00143.75	CS3
ATOM	35114	CG	GLU	C	89	207.843	140.068	51.254	1.00143.75	CS3
ATOM	35115	CD	GLU	C	89	207.275	140.201	52.650	1.00143.75	CS3
ATOM	35116	OE1	GLU	C	89	206.101	139.824	52.851	1.00143.75	CS3
ATOM	35117	OE2	GLU	C	89	208.006	140.678	53.546	1.00143.75	CS3
ATOM	35118	C	GLU	C	89	208.091	139.521	48.299	1.00144.18	CS3
ATOM	35119	O	GLU	C	89	209.288	139.245	48.308	1.00144.18	CS3
ATOM	35120	N	GLU	C	90	207.164	138.695	47.825	1.00113.46	CS3
ATOM	35121	CA	GLU	C	90	207.516	137.394	47.261	1.00113.46	CS3
ATOM	35122	CB	GLU	C	90	206.279	136.750	46.624	1.00154.97	CS3
ATOM	35123	CG	GLU	C	90	206.094	135.262	46.910	1.00154.97	CS3
ATOM	35124	CD	GLU	C	90	207.221	134.391	46.375	1.00154.97	CS3
ATOM	35125	OE1	GLU	C	90	207.101	133.150	46.468	1.00154.97	CS3
ATOM	35126	OE2	GLU	C	90	208.222	134.935	45.866	1.00154.97	CS3
ATOM	35127	C	GLU	C	90	208.575	137.648	46.188	1.00113.46	CS3
ATOM	35128	O	GLU	C	90	209.566	136.921	46.076	1.00113.46	CS3
ATOM	35129	N	LEU	C	91	208.343	138.706	45.417	1.00120.95	CS3
ATOM	35130	CA	LEU	C	91	209.220	139.127	44.330	1.00120.95	CS3
ATOM	35131	CB	LEU	C	91	208.592	140.337	43.618	1.00 69.41	CS3
ATOM	35132	CG	LEU	C	91	209.428	141.546	43.178	1.00 69.41	CS3
ATOM	35133	CD1	LEU	C	91	208.554	142.430	42.296	1.00 69.41	CS3
ATOM	35134	CD2	LEU	C	91	209.955	142.336	44.393	1.00 69.41	CS3
ATOM	35135	C	LEU	C	91	210.650	139.438	44.774	1.00120.95	CS3
ATOM	35136	O	LEU	C	91	211.586	139.348	43.977	1.00120.95	CS3
ATOM	35137	N	ALA	C	92	210.825	139.812	46.037	1.00105.50	CS3
ATOM	35138	CA	ALA	C	92	212.161	140.107	46.537	1.00105.50	CS3
ATOM	35139	CB	ALA	C	92	212.087	141.061	47.711	1.00 67.97	CS3
ATOM	35140	C	ALA	C	92	212.853	138.805	46.947	1.00105.50	CS3
ATOM	35141	O	ALA	C	92	214.079	138.740	47.002	1.00105.50	CS3
ATOM	35142	N	LYS	C	93	212.062	137.774	47.233	1.00136.41	CS3
ATOM	35143	CA	LYS	C	93	212.601	136.466	47.606	1.00136.41	CS3
ATOM	35144	CB	LYS	C	93	211.489	135.564	48.148	1.00113.23	CS3
ATOM	35145	CG	LYS	C	93	210.910	135.999	49.480	1.00113.23	CS3
ATOM	35146	CD	LYS	C	93	211.946	135.902	50.590	1.00113.23	CS3
ATOM	35147	CE	LYS	C	93	211.340	136.261	51.938	1.00113.23	CS3
ATOM	35148	NZ	LYS	C	93	212.324	136.115	53.046	1.00113.23	CS3
ATOM	35149	C	LYS	C	93	213.168	135.854	46.332	1.00136.41	CS3
ATOM	35150	O	LYS	C	93	213.877	134.845	46.354	1.00136.41	CS3
ATOM	35151	N	LEU	C	94	212.835	136.494	45.219	1.00103.33	CS3
ATOM	35152	CA	LEU	C	94	213.260	136.074	43.895	1.00103.33	CS3
ATOM	35153	CB	LEU	C	94	212.074	136.258	42.936	1.00 95.48	CS3
ATOM	35154	CG	LEU	C	94	212.086	135.908	41.446	1.00 95.48	CS3
ATOM	35155	CD1	LEU	C	94	210.706	135.400	41.051	1.00 95.48	CS3
ATOM	35156	CD2	LEU	C	94	212.455	137.128	40.612	1.00 95.48	CS3
ATOM	35157	C	LEU	C	94	214.472	136.910	43.468	1.00103.33	CS3
ATOM	35158	O	LEU	C	94	215.469	136.377	42.987	1.00103.33	CS3
ATOM	35159	N	THR	C	95	214.391	138.220	43.670	1.00137.59	CS3
ATOM	35160	CA	THR	C	95	215.486	139.110	43.306	1.00137.59	CS3
ATOM	35161	CB	THR	C	95	215.184	139.863	42.012	1.00106.67	CS3
ATOM	35162	OG1	THR	C	95	213.995	140.648	42.180	1.00106.67	CS3
ATOM	35163	CG2	THR	C	95	214.993	138.888	40.874	1.00106.67	CS3
ATOM	35164	C	THR	C	95	215.748	140.145	44.383	1.00137.59	CS3
ATOM	35165	O	THR	C	95	214.919	141.028	44.620	1.00137.59	CS3
ATOM	35166	N	GLY	C	96	216.902	140.038	45.033	1.00110.11	CS3
ATOM	35167	CA	GLY	C	96	217.243	140.992	46.069	1.00110.11	CS3
ATOM	35168	C	GLY	C	96	216.952	142.390	45.564	1.00110.11	CS3
ATOM	35169	O	GLY	C	96	216.234	143.147	46.206	1.00110.11	CS3
ATOM	35170	N	LYS	C	97	217.508	142.705	44.398	1.00104.17	CS3
ATOM	35171	CA	LYS	C	97	217.356	143.992	43.723	1.00104.17	CS3
ATOM	35172	CB	LYS	C	97	216.707	143.771	42.353	1.00121.37	CS3
ATOM	35173	CG	LYS	C	97	217.498	142.866	41.417	1.00121.37	CS3
ATOM	35174	CD	LYS	C	97	218.797	143.511	40.943	1.00121.37	CS3
ATOM	35175	CE	LYS	C	97	219.551	142.579	40.004	1.00121.37	CS3
ATOM	35176	NZ	LYS	C	97	220.810	143.175	39.493	1.00121.37	CS3
ATOM	35177	C	LYS	C	97	216.615	145.126	44.441	1.00104.17	CS3
ATOM	35178	O	LYS	C	97	217.116	146.252	44.485	1.00104.17	CS3
ATOM	35179	N	ASN	C	98	215.430	144.837	44.984	1.00108.88	CS3



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ATOM	35180	CA	ASN	C	98	214.595	145.831	45.677	1.00108.88	CS3
ATOM	35181	CB	ASN	C	98	215.455	146.820	46.476	1.00162.68	CS3
ATOM	35182	CG	ASN	C	98	214.628	147.873	47.191	1.00162.68	CS3
ATOM	35183	OD1	ASN	C	98	213.955	148.691	46.559	1.00162.68	CS3
ATOM	35184	ND2	ASN	C	98	214.674	147.858	48.517	1.00162.68	CS3
ATOM	35185	C	ASN	C	98	213.818	146.565	44.592	1.00108.88	CS3
ATOM	35186	O	ASN	C	98	214.157	147.690	44.215	1.00108.88	CS3
ATOM	35187	N	VAL	C	99	212.764	145.916	44.108	1.00100.54	CS3
ATOM	35188	CA	VAL	C	99	211.955	146.446	43.016	1.00100.54	CS3
ATOM	35189	CB	VAL	C	99	211.873	145.378	41.889	1.00147.54	CS3
ATOM	35190	CG1	VAL	C	99	211.764	143.995	42.507	1.00147.54	CS3
ATOM	35191	CG2	VAL	C	99	210.686	145.638	40.970	1.00147.54	CS3
ATOM	35192	C	VAL	C	99	210.548	146.937	43.351	1.00100.54	CS3
ATOM	35193	O	VAL	C	99	209.942	146.508	44.334	1.00100.54	CS3
ATOM	35194	N	ALA	C	100	210.051	147.842	42.507	1.00105.26	CS3
ATOM	35195	CA	ALA	C	100	208.716	148.416	42.631	1.00105.26	CS3
ATOM	35196	CB	ALA	C	100	208.643	149.710	41.831	1.00 25.79	CS3
ATOM	35197	C	ALA	C	100	207.684	147.408	42.106	1.00105.26	CS3
ATOM	35198	O	ALA	C	100	207.985	146.222	41.984	1.00105.26	CS3
ATOM	35199	N	LEU	C	101	206.473	147.870	41.801	1.00 72.42	CS3
ATOM	35200	CA	LEU	C	101	205.419	146.989	41.286	1.00 72.42	CS3
ATOM	35201	CB	LEU	C	101	205.169	145.811	42.245	1.00 78.62	CS3
ATOM	35202	CG	LEU	C	101	204.438	144.556	41.737	1.00 78.62	CS3
ATOM	35203	CD1	LEU	C	101	204.157	143.627	42.914	1.00 78.62	CS3
ATOM	35204	CD2	LEU	C	101	203.132	144.921	41.056	1.00 78.62	CS3
ATOM	35205	C	LEU	C	101	204.126	147.776	41.106	1.00 72.42	CS3
ATOM	35206	O	LEU	C	101	203.213	147.686	41.923	1.00 72.42	CS3
ATOM	35207	N	ASN	C	102	204.054	148.538	40.024	1.00 98.53	CS3
ATOM	35208	CA	ASN	C	102	202.881	149.349	39.723	1.00 98.53	CS3
ATOM	35209	CB	ASN	C	102	203.292	150.492	38.802	1.00138.84	CS3
ATOM	35210	CG	ASN	C	102	204.694	150.978	39.092	1.00138.84	CS3
ATOM	35211	OD1	ASN	C	102	204.975	151.479	40.179	1.00138.84	CS3
ATOM	35212	ND2	ASN	C	102	205.589	150.812	38.128	1.00138.84	CS3
ATOM	35213	C	ASN	C	102	201.803	148.501	39.054	1.00 98.53	CS3
ATOM	35214	O	ASN	C	102	202.034	147.333	38.739	1.00 98.53	CS3
ATOM	35215	N	VAL	C	103	200.628	149.089	38.843	1.00 98.59	CS3
ATOM	35216	CA	VAL	C	103	199.517	148.382	38.207	1.00 98.59	CS3
ATOM	35217	CB	VAL	C	103	198.628	147.633	39.249	1.00 61.22	CS3
ATOM	35218	CG1	VAL	C	103	197.369	147.088	38.566	1.00 61.22	CS3
ATOM	35219	CG2	VAL	C	103	199.414	146.479	39.898	1.00 61.22	CS3
ATOM	35220	C	VAL	C	103	198.623	149.332	37.418	1.00 98.59	CS3
ATOM	35221	O	VAL	C	103	198.191	150.367	37.924	1.00 98.59	CS3
ATOM	35222	N	GLN	C	104	198.350	148.972	36.172	1.00 93.35	CS3
ATOM	35223	CA	GLN	C	104	197.493	149.781	35.328	1.00 93.35	CS3
ATOM	35224	CB	GLN	C	104	198.292	150.370	34.184	1.00 99.00	CS3
ATOM	35225	CG	GLN	C	104	199.504	151.099	34.661	1.00 99.00	CS3
ATOM	35226	CD	GLN	C	104	199.975	152.106	33.656	1.00 99.00	CS3
ATOM	35227	OE1	GLN	C	104	200.285	151.762	32.515	1.00 99.00	CS3
ATOM	35228	NE2	GLN	C	104	200.026	153.370	34.067	1.00 99.00	CS3
ATOM	35229	C	GLN	C	104	196.382	148.900	34.789	1.00 93.35	CS3
ATOM	35230	O	GLN	C	104	196.642	147.828	34.243	1.00 93.35	CS3
ATOM	35231	N	GLU	C	105	195.143	149.348	34.964	1.00141.21	CS3
ATOM	35232	CA	GLU	C	105	193.982	148.598	34.503	1.00141.21	CS3
ATOM	35233	CB	GLU	C	105	192.692	149.198	35.075	1.00156.58	CS3
ATOM	35234	CG	GLU	C	105	191.425	148.432	34.699	1.00156.58	CS3
ATOM	35235	CD	GLU	C	105	190.158	149.257	34.874	1.00156.58	CS3
ATOM	35236	OE1	GLU	C	105	190.021	150.290	34.183	1.00156.58	CS3
ATOM	35237	OE2	GLU	C	105	189.300	148.874	35.698	1.00156.58	CS3
ATOM	35238	C	GLU	C	105	193.913	148.615	32.982	1.00141.21	CS3
ATOM	35239	O	GLU	C	105	194.452	149.515	32.335	1.00141.21	CS3
ATOM	35240	N	VAL	C	106	193.248	147.611	32.422	1.00102.67	CS3
ATOM	35241	CA	VAL	C	106	193.088	147.509	30.981	1.00102.67	CS3
ATOM	35242	CB	VAL	C	106	193.070	146.031	30.531	1.00 93.46	CS3
ATOM	35243	CG1	VAL	C	106	192.968	145.951	29.020	1.00 93.46	CS3
ATOM	35244	CG2	VAL	C	106	194.327	145.323	31.013	1.00 93.46	CS3
ATOM	35245	C	VAL	C	106	191.774	148.181	30.578	1.00102.67	CS3
ATOM	35246	O	VAL	C	106	190.695	147.768	31.011	1.00102.67	CS3
ATOM	35247	N	GLN	C	107	191.873	149.224	29.761	1.00101.51	CS3
ATOM	35248	CA	GLN	C	107	190.694	149.951	29.309	1.00101.51	CS3
ATOM	35249	CB	GLN	C	107	191.076	151.351	28.822	1.00165.81	CS3
ATOM	35250	CG	GLN	C	107	192.314	151.916	29.482	1.00165.81	CS3
ATOM	35251	CD	GLN	C	107	193.570	151.201	29.030	1.00165.81	CS3
ATOM	35252	OE1	GLN	C	107	193.916	151.222	27.849	1.00165.81	CS3
ATOM	35253	NE2	GLN	C	107	194.256	150.556	29.967	1.00165.81	CS3
ATOM	35254	C	GLN	C	107	190.018	149.184	28.176	1.00101.51	CS3
ATOM	35255	O	GLN	C	107	190.162	149.527	26.994	1.00101.51	CS3
ATOM	35256	N	ASN	C	108	189.287	148.141	28.563	1.00 78.85	CS3



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ATOM	35257	CA	ASN	C	108	188.555	147.269	27.649	1.00	78.85	CS3
ATOM	35258	CB	ASN	C	108	188.064	148.045	26.425	1.00	94.41	CS3
ATOM	35259	CG	ASN	C	108	187.256	147.182	25.483	1.00	94.41	CS3
ATOM	35260	OD1	ASN	C	108	186.329	146.480	25.898	1.00	94.41	CS3
ATOM	35261	ND2	ASN	C	108	187.597	147.231	24.204	1.00	94.41	CS3
ATOM	35262	C	ASN	C	108	189.384	146.075	27.203	1.00	78.85	CS3
ATOM	35263	O	ASN	C	108	190.086	146.137	26.197	1.00	78.85	CS3
ATOM	35264	N	PRO	C	109	189.309	144.964	27.955	1.00	94.54	CS3
ATOM	35265	CD	PRO	C	109	188.414	144.728	29.101	1.00	62.67	CS3
ATOM	35266	CA	PRO	C	109	190.057	143.748	27.631	1.00	94.54	CS3
ATOM	35267	CB	PRO	C	109	189.756	142.840	28.820	1.00	62.67	CS3
ATOM	35268	CG	PRO	C	109	188.358	143.215	29.167	1.00	62.67	CS3
ATOM	35269	C	PRO	C	109	189.562	143.168	26.308	1.00	94.54	CS3
ATOM	35270	O	PRO	C	109	190.037	142.130	25.845	1.00	94.54	CS3
ATOM	35271	N	ASN	C	110	188.597	143.858	25.711	1.00	83.95	CS3
ATOM	35272	CA	ASN	C	110	188.023	143.438	24.448	1.00	83.95	CS3
ATOM	35273	CB	ASN	C	110	186.580	143.927	24.347	1.00	110.14	CS3
ATOM	35274	CG	ASN	C	110	185.600	142.794	24.166	1.00	110.14	CS3
ATOM	35275	OD1	ASN	C	110	185.749	141.727	24.767	1.00	110.14	CS3
ATOM	35276	ND2	ASN	C	110	184.579	143.020	23.347	1.00	110.14	CS3
ATOM	35277	C	ASN	C	110	188.853	143.987	23.299	1.00	83.95	CS3
ATOM	35278	O	ASN	C	110	188.445	143.933	22.143	1.00	83.95	CS3
ATOM	35279	N	LEU	C	111	190.015	144.534	23.637	1.00	72.32	CS3
ATOM	35280	CA	LEU	C	111	190.942	145.055	22.644	1.00	72.32	CS3
ATOM	35281	CB	LEU	C	111	190.803	146.571	22.483	1.00	46.34	CS3
ATOM	35282	CG	LEU	C	111	189.483	147.114	21.915	1.00	46.34	CS3
ATOM	35283	CD1	LEU	C	111	189.707	148.527	21.392	1.00	46.34	CS3
ATOM	35284	CD2	LEU	C	111	188.981	146.245	20.778	1.00	46.34	CS3
ATOM	35285	C	LEU	C	111	192.356	144.697	23.085	1.00	72.32	CS3
ATOM	35286	O	LEU	C	111	193.336	145.293	22.633	1.00	72.32	CS3
ATOM	35287	N	SER	C	112	192.442	143.720	23.983	1.00	68.21	CS3
ATOM	35288	CA	SER	C	112	193.713	143.230	24.489	1.00	68.21	CS3
ATOM	35289	CB	SER	C	112	193.714	143.194	26.016	1.00	80.66	CS3
ATOM	35290	OG	SER	C	112	194.895	142.586	26.514	1.00	80.66	CS3
ATOM	35291	C	SER	C	112	193.860	141.821	23.946	1.00	68.21	CS3
ATOM	35292	O	SER	C	112	193.431	140.852	24.583	1.00	68.21	CS3
ATOM	35293	N	ALA	C	113	194.452	141.723	22.757	1.00	58.31	CS3
ATOM	35294	CA	ALA	C	113	194.661	140.447	22.081	1.00	58.31	CS3
ATOM	35295	CB	ALA	C	113	195.811	140.569	21.078	1.00	96.00	CS3
ATOM	35296	C	ALA	C	113	194.920	139.286	23.040	1.00	58.31	CS3
ATOM	35297	O	ALA	C	113	194.204	138.283	23.012	1.00	58.31	CS3
ATOM	35298	N	PRO	C	114	195.941	139.412	23.911	1.00	47.98	CS3
ATOM	35299	CD	PRO	C	114	196.852	140.561	24.057	1.00	56.32	CS3
ATOM	35300	CA	PRO	C	114	196.284	138.358	24.876	1.00	47.98	CS3
ATOM	35301	CB	PRO	C	114	197.348	139.019	25.743	1.00	56.32	CS3
ATOM	35302	CG	PRO	C	114	198.030	139.943	24.771	1.00	56.32	CS3
ATOM	35303	C	PRO	C	114	195.089	137.897	25.691	1.00	47.98	CS3
ATOM	35304	O	PRO	C	114	194.943	136.710	25.994	1.00	47.98	CS3
ATOM	35305	N	LEU	C	115	194.234	138.847	26.046	1.00	65.06	CS3
ATOM	35306	CA	LEU	C	115	193.051	138.535	26.825	1.00	65.06	CS3
ATOM	35307	CB	LEU	C	115	192.450	139.828	27.365	1.00	77.39	CS3
ATOM	35308	CG	LEU	C	115	193.429	140.469	28.351	1.00	77.39	CS3
ATOM	35309	CD1	LEU	C	115	192.903	141.803	28.827	1.00	77.39	CS3
ATOM	35310	CD2	LEU	C	115	193.639	139.522	29.528	1.00	77.39	CS3
ATOM	35311	C	LEU	C	115	192.047	137.768	25.977	1.00	65.06	CS3
ATOM	35312	O	LEU	C	115	191.620	136.663	26.347	1.00	65.06	CS3
ATOM	35313	N	VAL	C	116	191.685	138.348	24.834	1.00	49.21	CS3
ATOM	35314	CA	VAL	C	116	190.745	137.697	23.925	1.00	49.21	CS3
ATOM	35315	CB	VAL	C	116	190.730	138.386	22.562	1.00	36.29	CS3
ATOM	35316	CG1	VAL	C	116	189.456	138.042	21.837	1.00	36.29	CS3
ATOM	35317	CG2	VAL	C	116	190.862	139.881	22.737	1.00	36.29	CS3
ATOM	35318	C	VAL	C	116	191.177	136.239	23.722	1.00	49.21	CS3
ATOM	35319	O	VAL	C	116	190.349	135.321	23.659	1.00	49.21	CS3
ATOM	35320	N	ALA	C	117	192.490	136.047	23.625	1.00	60.91	CS3
ATOM	35321	CA	ALA	C	117	193.072	134.731	23.442	1.00	60.91	CS3
ATOM	35322	CB	ALA	C	117	194.579	134.841	23.321	1.00	65.09	CS3
ATOM	35323	C	ALA	C	117	192.712	133.864	24.627	1.00	60.91	CS3
ATOM	35324	O	ALA	C	117	192.085	132.815	24.466	1.00	60.91	CS3
ATOM	35325	N	GLN	C	118	193.109	134.315	25.815	1.00	64.89	CS3
ATOM	35326	CA	GLN	C	118	192.841	133.594	27.060	1.00	64.89	CS3
ATOM	35327	CB	GLN	C	118	193.385	134.388	28.244	1.00	95.63	CS3
ATOM	35328	CG	GLN	C	118	194.894	134.496	28.262	1.00	95.63	CS3
ATOM	35329	CD	GLN	C	118	195.385	135.453	29.320	1.00	95.63	CS3
ATOM	35330	OE1	GLN	C	118	195.152	136.659	29.232	1.00	95.63	CS3
ATOM	35331	NE2	GLN	C	118	196.061	134.923	30.335	1.00	95.63	CS3
ATOM	35332	C	GLN	C	118	191.345	133.341	27.251	1.00	64.89	CS3
ATOM	35333	O	GLN	C	118	190.940	132.271	27.738	1.00	64.89	CS3



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ATOM	35334	N	ARG	C	119	190.537	134.334	26.873	1.00	85.57	CS3
ATOM	35335	CA	ARG	C	119	189.082	134.239	26.965	1.00	85.57	CS3
ATOM	35336	CB	ARG	C	119	188.443	135.489	26.346	1.00	124.77	CS3
ATOM	35337	CG	ARG	C	119	186.939	135.395	26.127	1.00	124.77	CS3
ATOM	35338	CD	ARG	C	119	186.143	135.412	27.435	1.00	124.77	CS3
ATOM	35339	NE	ARG	C	119	184.787	134.888	27.246	1.00	124.77	CS3
ATOM	35340	CZ	ARG	C	119	183.861	134.806	28.199	1.00	124.77	CS3
ATOM	35341	NH1	ARG	C	119	184.124	135.219	29.432	1.00	124.77	CS3
ATOM	35342	NH2	ARG	C	119	182.672	134.288	27.919	1.00	124.77	CS3
ATOM	35343	C	ARG	C	119	188.633	132.983	26.205	1.00	85.57	CS3
ATOM	35344	O	ARG	C	119	187.931	132.120	26.747	1.00	85.57	CS3
ATOM	35345	N	VAL	C	120	189.072	132.897	24.950	1.00	57.29	CS3
ATOM	35346	CA	VAL	C	120	188.764	131.785	24.057	1.00	57.29	CS3
ATOM	35347	CB	VAL	C	120	189.297	132.066	22.660	1.00	66.02	CS3
ATOM	35348	CG1	VAL	C	120	188.997	130.886	21.747	1.00	66.02	CS3
ATOM	35349	CG2	VAL	C	120	188.674	133.351	22.128	1.00	66.02	CS3
ATOM	35350	C	VAL	C	120	189.373	130.484	24.537	1.00	57.29	CS3
ATOM	35351	O	VAL	C	120	188.719	129.442	24.543	1.00	57.29	CS3
ATOM	35352	N	ALA	C	121	190.639	130.553	24.920	1.00	61.26	CS3
ATOM	35353	CA	ALA	C	121	191.347	129.385	25.418	1.00	61.26	CS3
ATOM	35354	CB	ALA	C	121	192.743	129.776	25.854	1.00	57.45	CS3
ATOM	35355	C	ALA	C	121	190.585	128.794	26.595	1.00	61.26	CS3
ATOM	35356	O	ALA	C	121	190.338	127.583	26.643	1.00	61.26	CS3
ATOM	35357	N	GLU	C	122	190.221	129.660	27.541	1.00	80.79	CS3
ATOM	35358	CA	GLU	C	122	189.486	129.248	28.731	1.00	80.79	CS3
ATOM	35359	CB	GLU	C	122	189.192	130.453	29.619	1.00	167.23	CS3
ATOM	35360	CG	GLU	C	122	190.403	130.970	30.361	1.00	167.23	CS3
ATOM	35361	CD	GLU	C	122	190.075	132.162	31.230	1.00	167.23	CS3
ATOM	35362	OE1	GLU	C	122	189.120	132.064	32.030	1.00	167.23	CS3
ATOM	35363	OE2	GLU	C	122	190.772	133.193	31.116	1.00	167.23	CS3
ATOM	35364	C	GLU	C	122	188.184	128.559	28.364	1.00	80.79	CS3
ATOM	35365	O	GLU	C	122	187.891	127.471	28.858	1.00	80.79	CS3
ATOM	35366	N	GLN	C	123	187.404	129.193	27.495	1.00	68.72	CS3
ATOM	35367	CA	GLN	C	123	186.135	128.613	27.074	1.00	68.72	CS3
ATOM	35368	CB	GLN	C	123	185.480	129.461	25.976	1.00	70.98	CS3
ATOM	35369	CG	GLN	C	123	184.971	130.826	26.413	1.00	70.98	CS3
ATOM	35370	CD	GLN	C	123	183.906	131.366	25.465	1.00	70.98	CS3
ATOM	35371	OE1	GLN	C	123	182.876	130.726	25.260	1.00	70.98	CS3
ATOM	35372	NE2	GLN	C	123	184.150	132.540	24.882	1.00	70.98	CS3
ATOM	35373	C	GLN	C	123	186.346	127.194	26.550	1.00	68.72	CS3
ATOM	35374	O	GLN	C	123	185.618	126.263	26.917	1.00	68.72	CS3
ATOM	35375	N	ILE	C	124	187.354	127.037	25.696	1.00	79.87	CS3
ATOM	35376	CA	ILE	C	124	187.649	125.741	25.097	1.00	79.87	CS3
ATOM	35377	CB	ILE	C	124	188.855	125.828	24.128	1.00	75.11	CS3
ATOM	35378	CG2	ILE	C	124	189.051	124.490	23.425	1.00	75.11	CS3
ATOM	35379	CG1	ILE	C	124	188.611	126.919	23.081	1.00	75.11	CS3
ATOM	35380	CD1	ILE	C	124	189.721	127.049	22.047	1.00	75.11	CS3
ATOM	35381	C	ILE	C	124	187.938	124.674	26.144	1.00	79.87	CS3
ATOM	35382	O	ILE	C	124	187.633	123.493	25.949	1.00	79.87	CS3
ATOM	35383	N	GLU	C	125	188.523	125.094	27.260	1.00	82.36	CS3
ATOM	35384	CA	GLU	C	125	188.855	124.159	28.321	1.00	82.36	CS3
ATOM	35385	CB	GLU	C	125	189.857	124.800	29.277	1.00	132.18	CS3
ATOM	35386	CG	GLU	C	125	191.122	125.250	28.574	1.00	132.18	CS3
ATOM	35387	CD	GLU	C	125	192.165	125.778	29.528	1.00	132.18	CS3
ATOM	35388	OE1	GLU	C	125	191.896	126.795	30.204	1.00	132.18	CS3
ATOM	35389	OE2	GLU	C	125	193.255	125.171	29.601	1.00	132.18	CS3
ATOM	35390	C	GLU	C	125	187.611	123.708	29.067	1.00	82.36	CS3
ATOM	35391	O	GLU	C	125	187.596	122.629	29.658	1.00	82.36	CS3
ATOM	35392	N	ARG	C	126	186.565	124.526	29.024	1.00	78.25	CS3
ATOM	35393	CA	ARG	C	126	185.320	124.194	29.698	1.00	78.25	CS3
ATOM	35394	CB	ARG	C	126	184.599	125.462	30.126	1.00	115.64	CS3
ATOM	35395	CG	ARG	C	126	185.412	126.355	31.025	1.00	115.64	CS3
ATOM	35396	CD	ARG	C	126	184.596	127.566	31.399	1.00	115.64	CS3
ATOM	35397	NE	ARG	C	126	185.404	128.600	32.031	1.00	115.64	CS3
ATOM	35398	CZ	ARG	C	126	184.930	129.786	32.403	1.00	115.64	CS3
ATOM	35399	NH1	ARG	C	126	183.648	130.078	32.202	1.00	115.64	CS3
ATOM	35400	NH2	ARG	C	126	185.736	130.680	32.968	1.00	115.64	CS3
ATOM	35401	C	ARG	C	126	184.404	123.370	28.799	1.00	78.25	CS3
ATOM	35402	O	ARG	C	126	183.256	123.101	29.152	1.00	78.25	CS3
ATOM	35403	N	ARG	C	127	184.922	122.973	27.641	1.00	75.58	CS3
ATOM	35404	CA	ARG	C	127	184.182	122.175	26.666	1.00	75.58	CS3
ATOM	35405	CB	ARG	C	127	183.462	121.007	27.344	1.00	87.77	CS3
ATOM	35406	CG	ARG	C	127	184.362	120.125	28.181	1.00	87.77	CS3
ATOM	35407	CD	ARG	C	127	183.992	120.230	29.654	1.00	87.77	CS3
ATOM	35408	NE	ARG	C	127	184.799	119.357	30.504	1.00	87.77	CS3
ATOM	35409	CZ	ARG	C	127	184.922	118.040	30.338	1.00	87.77	CS3
ATOM	35410	NH1	ARG	C	127	184.291	117.424	29.341	1.00	87.77	CS3



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ATOM	35411	NH2	ARG	C	127	185.674	117.333	31.179	1.00	87.77	CS3
ATOM	35412	C	ARG	C	127	183.173	122.985	25.864	1.00	75.58	CS3
ATOM	35413	O	ARG	C	127	182.153	122.452	25.433	1.00	75.58	CS3
ATOM	35414	N	PHE	C	128	183.456	124.270	25.669	1.00	70.59	CS3
ATOM	35415	CA	PHE	C	128	182.575	125.131	24.887	1.00	70.59	CS3
ATOM	35416	CB	PHE	C	128	182.862	126.601	25.178	1.00	112.72	CS3
ATOM	35417	CG	PHE	C	128	182.080	127.153	26.326	1.00	112.72	CS3
ATOM	35418	CD1	PHE	C	128	182.251	126.648	27.611	1.00	112.72	CS3
ATOM	35419	CD2	PHE	C	128	181.174	128.189	26.125	1.00	112.72	CS3
ATOM	35420	CE1	PHE	C	128	181.528	127.171	28.684	1.00	112.72	CS3
ATOM	35421	CE2	PHE	C	128	180.447	128.718	27.189	1.00	112.72	CS3
ATOM	35422	CZ	PHE	C	128	180.625	128.208	28.472	1.00	112.72	CS3
ATOM	35423	C	PHE	C	128	182.730	124.885	23.383	1.00	70.59	CS3
ATOM	35424	O	PHE	C	128	183.750	124.367	22.923	1.00	70.59	CS3
ATOM	35425	N	ALA	C	129	181.706	125.264	22.624	1.00	71.52	CS3
ATOM	35426	CA	ALA	C	129	181.717	125.099	21.175	1.00	71.52	CS3
ATOM	35427	CB	ALA	C	129	180.328	125.360	20.613	1.00	149.07	CS3
ATOM	35428	C	ALA	C	129	182.724	126.068	20.566	1.00	71.52	CS3
ATOM	35429	O	ALA	C	129	182.558	127.295	20.626	1.00	71.52	CS3
ATOM	35430	N	VAL	C	130	183.761	125.506	19.959	1.00	47.51	CS3
ATOM	35431	CA	VAL	C	130	184.821	126.307	19.371	1.00	47.51	CS3
ATOM	35432	CB	VAL	C	130	185.926	125.410	18.794	1.00	54.44	CS3
ATOM	35433	CG1	VAL	C	130	187.180	126.237	18.545	1.00	54.44	CS3
ATOM	35434	CG2	VAL	C	130	186.207	124.249	19.748	1.00	54.44	CS3
ATOM	35435	C	VAL	C	130	184.418	127.318	18.298	1.00	47.51	CS3
ATOM	35436	O	VAL	C	130	184.584	128.520	18.488	1.00	47.51	CS3
ATOM	35437	N	ARG	C	131	183.897	126.858	17.169	1.00	70.37	CS3
ATOM	35438	CA	ARG	C	131	183.553	127.811	16.131	1.00	70.37	CS3
ATOM	35439	CB	ARG	C	131	182.749	127.147	15.020	1.00	137.49	CS3
ATOM	35440	CG	ARG	C	131	182.775	127.941	13.727	1.00	137.49	CS3
ATOM	35441	CD	ARG	C	131	182.405	127.062	12.554	1.00	137.49	CS3
ATOM	35442	NE	ARG	C	131	183.308	125.919	12.436	1.00	137.49	CS3
ATOM	35443	CZ	ARG	C	131	183.133	124.907	11.589	1.00	137.49	CS3
ATOM	35444	NH1	ARG	C	131	182.082	124.891	10.775	1.00	137.49	CS3
ATOM	35445	NH2	ARG	C	131	184.008	123.908	11.559	1.00	137.49	CS3
ATOM	35446	C	ARG	C	131	182.787	128.990	16.710	1.00	70.37	CS3
ATOM	35447	O	ARG	C	131	183.057	130.136	16.354	1.00	70.37	CS3
ATOM	35448	N	ARG	C	132	181.856	128.710	17.622	1.00	100.75	CS3
ATOM	35449	CA	ARG	C	132	181.045	129.753	18.260	1.00	100.75	CS3
ATOM	35450	CB	ARG	C	132	180.020	129.140	19.222	1.00	168.21	CS3
ATOM	35451	CG	ARG	C	132	178.972	128.260	18.565	1.00	168.21	CS3
ATOM	35452	CD	ARG	C	132	178.079	127.607	19.611	1.00	168.21	CS3
ATOM	35453	NE	ARG	C	132	177.305	126.500	19.056	1.00	168.21	CS3
ATOM	35454	CZ	ARG	C	132	176.625	125.621	19.788	1.00	168.21	CS3
ATOM	35455	NH1	ARG	C	132	176.621	125.717	21.111	1.00	168.21	CS3
ATOM	35456	NH2	ARG	C	132	175.955	124.639	19.197	1.00	168.21	CS3
ATOM	35457	C	ARG	C	132	181.904	130.738	19.037	1.00	100.75	CS3
ATOM	35458	O	ARG	C	132	181.970	131.922	18.695	1.00	100.75	CS3
ATOM	35459	N	ALA	C	133	182.552	130.240	20.088	1.00	93.27	CS3
ATOM	35460	CA	ALA	C	133	183.413	131.071	20.931	1.00	93.27	CS3
ATOM	35461	CB	ALA	C	133	184.356	130.193	21.737	1.00	14.53	CS3
ATOM	35462	C	ALA	C	133	184.222	132.077	20.118	1.00	93.27	CS3
ATOM	35463	O	ALA	C	133	184.413	133.223	20.530	1.00	93.27	CS3
ATOM	35464	N	ILE	C	134	184.690	131.633	18.958	1.00	63.39	CS3
ATOM	35465	CA	ILE	C	134	185.491	132.461	18.074	1.00	63.39	CS3
ATOM	35466	CB	ILE	C	134	186.167	131.596	17.008	1.00	53.58	CS3
ATOM	35467	CG2	ILE	C	134	187.118	132.432	16.185	1.00	53.58	CS3
ATOM	35468	CG1	ILE	C	134	186.944	130.475	17.700	1.00	53.58	CS3
ATOM	35469	CD1	ILE	C	134	187.580	129.500	16.761	1.00	53.58	CS3
ATOM	35470	C	ILE	C	134	184.683	133.563	17.406	1.00	63.39	CS3
ATOM	35471	O	ILE	C	134	185.030	134.741	17.529	1.00	63.39	CS3
ATOM	35472	N	LYS	C	135	183.616	133.192	16.700	1.00	65.02	CS3
ATOM	35473	CA	LYS	C	135	182.780	134.189	16.037	1.00	65.02	CS3
ATOM	35474	CB	LYS	C	135	181.484	133.559	15.531	1.00	117.57	CS3
ATOM	35475	CG	LYS	C	135	181.689	132.415	14.557	1.00	117.57	CS3
ATOM	35476	CD	LYS	C	135	180.361	131.745	14.205	1.00	117.57	CS3
ATOM	35477	CE	LYS	C	135	180.559	130.482	13.364	1.00	117.57	CS3
ATOM	35478	NZ	LYS	C	135	179.266	129.835	12.980	1.00	117.57	CS3
ATOM	35479	C	LYS	C	135	182.464	135.253	17.082	1.00	65.02	CS3
ATOM	35480	O	LYS	C	135	182.590	136.460	16.827	1.00	65.02	CS3
ATOM	35481	N	GLN	C	136	182.076	134.784	18.270	1.00	84.85	CS3
ATOM	35482	CA	GLN	C	136	181.751	135.659	19.393	1.00	84.85	CS3
ATOM	35483	CB	GLN	C	136	181.420	134.832	20.633	1.00	94.37	CS3
ATOM	35484	CG	GLN	C	136	179.957	134.454	20.746	1.00	94.37	CS3
ATOM	35485	CD	GLN	C	136	179.692	133.520	21.910	1.00	94.37	CS3
ATOM	35486	OE1	GLN	C	136	180.150	133.762	23.031	1.00	94.37	CS3
ATOM	35487	NE2	GLN	C	136	178.944	132.445	21.653	1.00	94.37	CS3



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ATOM	35488	C	GLN	C	136	182.915	136.579	19.701	1.00	84.85	CS3
ATOM	35489	O	GLN	C	136	182.819	137.790	19.529	1.00	84.85	CS3
ATOM	35490	N	ALA	C	137	184.013	135.990	20.160	1.00	65.43	CS3
ATOM	35491	CA	ALA	C	137	185.215	136.746	20.488	1.00	65.43	CS3
ATOM	35492	CB	ALA	C	137	186.400	135.798	20.639	1.00	69.68	CS3
ATOM	35493	C	ALA	C	137	185.508	137.786	19.408	1.00	65.43	CS3
ATOM	35494	O	ALA	C	137	185.796	138.950	19.711	1.00	65.43	CS3
ATOM	35495	N	VAL	C	138	185.433	137.367	18.147	1.00	63.39	CS3
ATOM	35496	CA	VAL	C	138	185.685	138.288	17.050	1.00	63.39	CS3
ATOM	35497	CB	VAL	C	138	185.563	137.586	15.687	1.00	64.70	CS3
ATOM	35498	CG1	VAL	C	138	185.704	138.601	14.554	1.00	64.70	CS3
ATOM	35499	CG2	VAL	C	138	186.646	136.533	15.574	1.00	64.70	CS3
ATOM	35500	C	VAL	C	138	184.696	139.438	17.126	1.00	63.39	CS3
ATOM	35501	O	VAL	C	138	185.082	140.609	17.020	1.00	63.39	CS3
ATOM	35502	N	GLN	C	139	183.421	139.102	17.317	1.00	76.82	CS3
ATOM	35503	CA	GLN	C	139	182.390	140.126	17.430	1.00	76.82	CS3
ATOM	35504	CB	GLN	C	139	181.024	139.508	17.739	1.00	93.72	CS3
ATOM	35505	CG	GLN	C	139	180.044	139.614	16.579	1.00	93.72	CS3
ATOM	35506	CD	GLN	C	139	179.819	141.055	16.121	1.00	93.72	CS3
ATOM	35507	OE1	GLN	C	139	179.239	141.301	15.060	1.00	93.72	CS3
ATOM	35508	NE2	GLN	C	139	180.271	142.011	16.925	1.00	93.72	CS3
ATOM	35509	C	GLN	C	139	182.777	141.101	18.533	1.00	76.82	CS3
ATOM	35510	O	GLN	C	139	182.990	142.276	18.265	1.00	76.82	CS3
ATOM	35511	N	ARG	C	140	182.879	140.605	19.765	1.00	68.93	CS3
ATOM	35512	CA	ARG	C	140	183.264	141.438	20.904	1.00	68.93	CS3
ATOM	35513	CB	ARG	C	140	183.783	140.569	22.053	1.00	103.47	CS3
ATOM	35514	CG	ARG	C	140	182.836	139.496	22.536	1.00	103.47	CS3
ATOM	35515	CD	ARG	C	140	183.577	138.525	23.437	1.00	103.47	CS3
ATOM	35516	NE	ARG	C	140	182.836	137.283	23.648	1.00	103.47	CS3
ATOM	35517	CZ	ARG	C	140	183.388	136.148	24.074	1.00	103.47	CS3
ATOM	35518	NH1	ARG	C	140	184.689	136.105	24.331	1.00	103.47	CS3
ATOM	35519	NH2	ARG	C	140	182.647	135.054	24.237	1.00	103.47	CS3
ATOM	35520	C	ARG	C	140	184.369	142.408	20.485	1.00	68.93	CS3
ATOM	35521	O	ARG	C	140	184.163	143.624	20.456	1.00	68.93	CS3
ATOM	35522	N	VAL	C	141	185.537	141.858	20.153	1.00	59.02	CS3
ATOM	35523	CA	VAL	C	141	186.681	142.669	19.746	1.00	59.02	CS3
ATOM	35524	CB	VAL	C	141	187.851	141.797	19.221	1.00	53.93	CS3
ATOM	35525	CG1	VAL	C	141	188.977	142.697	18.719	1.00	53.93	CS3
ATOM	35526	CG2	VAL	C	141	188.376	140.880	20.331	1.00	53.93	CS3
ATOM	35527	C	VAL	C	141	186.296	143.652	18.653	1.00	59.02	CS3
ATOM	35528	O	VAL	C	141	186.659	144.830	18.690	1.00	59.02	CS3
ATOM	35529	N	MET	C	142	185.551	143.161	17.676	1.00	74.15	CS3
ATOM	35530	CA	MET	C	142	185.130	144.000	16.570	1.00	74.15	CS3
ATOM	35531	CB	MET	C	142	184.619	143.106	15.429	1.00	71.64	CS3
ATOM	35532	CG	MET	C	142	184.696	143.743	14.048	1.00	71.64	CS3
ATOM	35533	SD	MET	C	142	186.372	144.301	13.667	1.00	71.64	CS3
ATOM	35534	CE	MET	C	142	186.208	146.063	13.945	1.00	71.64	CS3
ATOM	35535	C	MET	C	142	184.039	144.983	17.014	1.00	74.15	CS3
ATOM	35536	O	MET	C	142	183.980	146.123	16.544	1.00	74.15	CS3
ATOM	35537	N	GLU	C	143	183.208	144.533	17.952	1.00	95.62	CS3
ATOM	35538	CA	GLU	C	143	182.073	145.298	18.465	1.00	95.62	CS3
ATOM	35539	CB	GLU	C	143	181.035	144.333	19.049	1.00	175.97	CS3
ATOM	35540	CG	GLU	C	143	179.630	144.905	19.171	1.00	175.97	CS3
ATOM	35541	CD	GLU	C	143	178.587	143.833	19.450	1.00	175.97	CS3
ATOM	35542	OE1	GLU	C	143	178.649	143.203	20.527	1.00	175.97	CS3
ATOM	35543	OE2	GLU	C	143	177.708	143.616	18.587	1.00	175.97	CS3
ATOM	35544	C	GLU	C	143	182.387	146.384	19.484	1.00	95.62	CS3
ATOM	35545	O	GLU	C	143	181.492	147.097	19.921	1.00	95.62	CS3
ATOM	35546	N	SER	C	144	183.645	146.511	19.873	1.00	65.96	CS3
ATOM	35547	CA	SER	C	144	184.015	147.549	20.823	1.00	65.96	CS3
ATOM	35548	CB	SER	C	144	184.224	146.962	22.231	1.00	57.01	CS3
ATOM	35549	OG	SER	C	144	185.274	146.016	22.267	1.00	57.01	CS3
ATOM	35550	C	SER	C	144	185.277	148.251	20.334	1.00	65.96	CS3
ATOM	35551	O	SER	C	144	186.334	148.184	20.964	1.00	65.96	CS3
ATOM	35552	N	GLY	C	145	185.145	148.935	19.202	1.00	99.63	CS3
ATOM	35553	CA	GLY	C	145	186.273	149.632	18.621	1.00	99.63	CS3
ATOM	35554	C	GLY	C	145	186.867	148.753	17.542	1.00	99.63	CS3
ATOM	35555	O	GLY	C	145	186.132	148.138	16.770	1.00	99.63	CS3
ATOM	35556	N	ALA	C	146	188.194	148.682	17.503	1.00	87.64	CS3
ATOM	35557	CA	ALA	C	146	188.922	147.874	16.523	1.00	87.64	CS3
ATOM	35558	CB	ALA	C	146	188.766	146.382	16.840	1.00	10.79	CS3
ATOM	35559	C	ALA	C	146	188.502	148.146	15.082	1.00	87.64	CS3
ATOM	35560	O	ALA	C	146	187.372	148.555	14.806	1.00	87.64	CS3
ATOM	35561	N	LYS	C	147	189.431	147.932	14.160	1.00	70.26	CS3
ATOM	35562	CA	LYS	C	147	189.142	148.140	12.754	1.00	70.26	CS3
ATOM	35563	CB	LYS	C	147	190.056	149.222	12.164	1.00	77.66	CS3
ATOM	35564	CG	LYS	C	147	189.974	150.559	12.906	1.00	77.66	CS3



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ATOM	35565	CD	LYS	C	147	190.309	151.751	12.014	1.00	77.66	CS3
ATOM	35566	CE	LYS	C	147	191.711	151.636	11.433	1.00	77.66	CS3
ATOM	35567	NZ	LYS	C	147	192.101	152.796	10.576	1.00	77.66	CS3
ATOM	35568	C	LYS	C	147	189.359	146.809	12.065	1.00	70.26	CS3
ATOM	35569	O	LYS	C	147	189.244	146.702	10.844	1.00	70.26	CS3
ATOM	35570	N	GLY	C	148	189.661	145.795	12.873	1.00	55.70	CS3
ATOM	35571	CA	GLY	C	148	189.885	144.455	12.361	1.00	55.70	CS3
ATOM	35572	C	GLY	C	148	190.288	143.487	13.461	1.00	55.70	CS3
ATOM	35573	O	GLY	C	148	190.964	143.864	14.420	1.00	55.70	CS3
ATOM	35574	N	ALA	C	149	189.876	142.233	13.332	1.00	53.94	CS3
ATOM	35575	CA	ALA	C	149	190.219	141.234	14.330	1.00	53.94	CS3
ATOM	35576	CB	ALA	C	149	189.334	141.397	15.536	1.00	37.28	CS3
ATOM	35577	C	ALA	C	149	190.088	139.825	13.758	1.00	53.94	CS3
ATOM	35578	O	ALA	C	149	189.309	139.586	12.830	1.00	53.94	CS3
ATOM	35579	N	LYS	C	150	190.840	138.888	14.320	1.00	62.46	CS3
ATOM	35580	CA	LYS	C	150	190.816	137.516	13.838	1.00	62.46	CS3
ATOM	35581	CB	LYS	C	150	191.740	137.426	12.625	1.00	77.98	CS3
ATOM	35582	CG	LYS	C	150	192.046	136.032	12.126	1.00	77.98	CS3
ATOM	35583	CD	LYS	C	150	193.006	136.116	10.940	1.00	77.98	CS3
ATOM	35584	CE	LYS	C	150	193.448	134.744	10.456	1.00	77.98	CS3
ATOM	35585	NZ	LYS	C	150	194.369	134.832	9.286	1.00	77.98	CS3
ATOM	35586	C	LYS	C	150	191.268	136.551	14.934	1.00	62.46	CS3
ATOM	35587	O	LYS	C	150	192.258	136.800	15.627	1.00	62.46	CS3
ATOM	35588	N	VAL	C	151	190.541	135.455	15.109	1.00	63.77	CS3
ATOM	35589	CA	VAL	C	151	190.920	134.486	16.128	1.00	63.77	CS3
ATOM	35590	CB	VAL	C	151	189.797	134.278	17.133	1.00	53.26	CS3
ATOM	35591	CG1	VAL	C	151	190.252	133.331	18.241	1.00	53.26	CS3
ATOM	35592	CG2	VAL	C	151	189.372	135.619	17.700	1.00	53.26	CS3
ATOM	35593	C	VAL	C	151	191.214	133.169	15.444	1.00	63.77	CS3
ATOM	35594	O	VAL	C	151	190.544	132.821	14.484	1.00	63.77	CS3
ATOM	35595	N	ILE	C	152	192.198	132.426	15.935	1.00	66.14	CS3
ATOM	35596	CA	ILE	C	152	192.564	131.159	15.307	1.00	66.14	CS3
ATOM	35597	CB	ILE	C	152	193.872	131.313	14.509	1.00	47.48	CS3
ATOM	35598	CG2	ILE	C	152	194.284	129.980	13.909	1.00	47.48	CS3
ATOM	35599	CG1	ILE	C	152	193.701	132.372	13.420	1.00	47.48	CS3
ATOM	35600	CD1	ILE	C	152	194.990	132.709	12.700	1.00	47.48	CS3
ATOM	35601	C	ILE	C	152	192.776	130.023	16.297	1.00	66.14	CS3
ATOM	35602	O	ILE	C	152	193.576	130.150	17.235	1.00	66.14	CS3
ATOM	35603	N	VAL	C	153	192.081	128.909	16.088	1.00	57.16	CS3
ATOM	35604	CA	VAL	C	153	192.262	127.766	16.973	1.00	57.16	CS3
ATOM	35605	CB	VAL	C	153	190.928	127.213	17.469	1.00	62.68	CS3
ATOM	35606	CG1	VAL	C	153	191.176	125.946	18.280	1.00	62.68	CS3
ATOM	35607	CG2	VAL	C	153	190.219	128.259	18.325	1.00	62.68	CS3
ATOM	35608	C	VAL	C	153	193.018	126.657	16.251	1.00	57.16	CS3
ATOM	35609	O	VAL	C	153	192.845	126.462	15.051	1.00	57.16	CS3
ATOM	35610	N	SER	C	154	193.855	125.940	16.994	1.00	79.76	CS3
ATOM	35611	CA	SER	C	154	194.668	124.858	16.453	1.00	79.76	CS3
ATOM	35612	CB	SER	C	154	195.618	124.358	17.519	1.00	66.08	CS3
ATOM	35613	OG	SER	C	154	194.897	123.606	18.483	1.00	66.08	CS3
ATOM	35614	C	SER	C	154	193.838	123.678	15.971	1.00	79.76	CS3
ATOM	35615	O	SER	C	154	192.878	123.852	15.224	1.00	79.76	CS3
ATOM	35616	N	GLY	C	155	194.218	122.475	16.414	1.00	89.18	CS3
ATOM	35617	CA	GLY	C	155	193.517	121.258	16.019	1.00	89.18	CS3
ATOM	35618	C	GLY	C	155	193.038	120.431	17.196	1.00	89.18	CS3
ATOM	35619	O	GLY	C	155	193.466	120.656	18.325	1.00	89.18	CS3
ATOM	35620	N	ARG	C	156	192.177	119.455	16.910	1.00	57.92	CS3
ATOM	35621	CA	ARG	C	156	191.546	118.560	17.899	1.00	57.92	CS3
ATOM	35622	CB	ARG	C	156	192.463	118.202	19.069	1.00	55.69	CS3
ATOM	35623	CG	ARG	C	156	193.559	117.243	18.684	1.00	55.69	CS3
ATOM	35624	CD	ARG	C	156	193.646	116.037	19.605	1.00	55.69	CS3
ATOM	35625	NE	ARG	C	156	192.519	115.123	19.448	1.00	55.69	CS3
ATOM	35626	CZ	ARG	C	156	192.475	113.899	19.976	1.00	55.69	CS3
ATOM	35627	NH1	ARG	C	156	193.496	113.435	20.693	1.00	55.69	CS3
ATOM	35628	NH2	ARG	C	156	191.401	113.138	19.797	1.00	55.69	CS3
ATOM	35629	C	ARG	C	156	190.332	119.287	18.417	1.00	57.92	CS3
ATOM	35630	O	ARG	C	156	189.864	119.066	19.531	1.00	57.92	CS3
ATOM	35631	N	ILE	C	157	189.844	120.183	17.574	1.00	60.15	CS3
ATOM	35632	CA	ILE	C	157	188.675	120.962	17.882	1.00	60.15	CS3
ATOM	35633	CB	ILE	C	157	188.298	121.838	16.689	1.00	51.70	CS3
ATOM	35634	CG2	ILE	C	157	186.886	122.340	16.835	1.00	51.70	CS3
ATOM	35635	CG1	ILE	C	157	189.302	122.985	16.577	1.00	51.70	CS3
ATOM	35636	CD1	ILE	C	157	188.987	123.984	15.487	1.00	51.70	CS3
ATOM	35637	C	ILE	C	157	187.540	120.012	18.223	1.00	60.15	CS3
ATOM	35638	O	ILE	C	157	187.086	119.226	17.381	1.00	60.15	CS3
ATOM	35639	N	GLY	C	158	187.107	120.083	19.479	1.00	80.23	CS3
ATOM	35640	CA	GLY	C	158	186.023	119.243	19.947	1.00	80.23	CS3
ATOM	35641	C	GLY	C	158	186.438	117.805	20.168	1.00	80.23	CS3



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ATOM	35642	O	GLY	C	158	185.637	116.895	19.965	1.00	80.23	CS3
ATOM	35643	N	GLY	C	159	187.683	117.595	20.588	1.00	66.31	CS3
ATOM	35644	CA	GLY	C	159	188.166	116.244	20.827	1.00	66.31	CS3
ATOM	35645	O	GLY	C	159	188.232	115.437	19.544	1.00	66.31	CS3
ATOM	35646	C	GLY	C	159	188.637	114.270	19.563	1.00	66.31	CS3
ATOM	35647	N	ALA	C	160	187.825	116.063	18.435	1.00	94.02	CS3
ATOM	35648	CA	ALA	C	160	187.828	115.434	17.114	1.00	94.02	CS3
ATOM	35649	CB	ALA	C	160	187.581	116.481	16.040	1.00	69.25	CS3
ATOM	35650	C	ALA	C	160	189.182	114.782	16.908	1.00	94.02	CS3
ATOM	35651	O	ALA	C	160	190.217	115.430	17.082	1.00	94.02	CS3
ATOM	35652	N	GLU	C	161	189.185	113.506	16.535	1.00	88.98	CS3
ATOM	35653	CA	GLU	C	161	190.443	112.790	16.354	1.00	88.98	CS3
ATOM	35654	CB	GLU	C	161	190.172	111.321	16.032	1.00	162.38	CS3
ATOM	35655	CG	GLU	C	161	191.393	110.439	16.214	1.00	162.38	CS3
ATOM	35656	CD	GLU	C	161	191.032	108.989	16.465	1.00	162.38	CS3
ATOM	35657	OE1	GLU	C	161	191.957	108.163	16.633	1.00	162.38	CS3
ATOM	35658	OE2	GLU	C	161	189.824	108.674	16.500	1.00	162.38	CS3
ATOM	35659	C	GLU	C	161	191.390	113.398	15.312	1.00	88.98	CS3
ATOM	35660	O	GLU	C	161	192.609	113.371	15.498	1.00	88.98	CS3
ATOM	35661	N	GLN	C	162	190.845	113.945	14.226	1.00	59.48	CS3
ATOM	35662	CA	GLN	C	162	191.681	114.562	13.193	1.00	59.48	CS3
ATOM	35663	CB	GLN	C	162	191.061	114.365	11.807	1.00	122.55	CS3
ATOM	35664	CG	GLN	C	162	191.898	113.507	10.864	1.00	122.55	CS3
ATOM	35665	CD	GLN	C	162	193.317	114.030	10.704	1.00	122.55	CS3
ATOM	35666	OE1	GLN	C	162	193.522	115.207	10.412	1.00	122.55	CS3
ATOM	35667	NE2	GLN	C	162	194.304	113.153	10.890	1.00	122.55	CS3
ATOM	35668	C	GLN	C	162	191.839	116.050	13.477	1.00	59.48	CS3
ATOM	35669	O	GLN	C	162	190.858	116.788	13.460	1.00	59.48	CS3
ATOM	35670	N	ALA	C	163	193.072	116.478	13.749	1.00	49.23	CS3
ATOM	35671	CA	ALA	C	163	193.382	117.880	14.052	1.00	49.23	CS3
ATOM	35672	CB	ALA	C	163	194.875	118.059	14.165	1.00	57.91	CS3
ATOM	35673	C	ALA	C	163	192.832	118.806	12.980	1.00	49.23	CS3
ATOM	35674	O	ALA	C	163	193.025	118.560	11.790	1.00	49.23	CS3
ATOM	35675	N	ARG	C	164	192.152	119.871	13.396	1.00	51.16	CS3
ATOM	35676	CA	ARG	C	164	191.558	120.802	12.435	1.00	51.16	CS3
ATOM	35677	CB	ARG	C	164	190.025	120.853	12.603	1.00	87.60	CS3
ATOM	35678	CG	ARG	C	164	189.415	119.537	13.118	1.00	87.60	CS3
ATOM	35679	CD	ARG	C	164	187.927	119.323	12.791	1.00	87.60	CS3
ATOM	35680	NE	ARG	C	164	187.012	120.208	13.505	1.00	87.60	CS3
ATOM	35681	CZ	ARG	C	164	186.767	121.464	13.156	1.00	87.60	CS3
ATOM	35682	NH1	ARG	C	164	187.372	121.992	12.099	1.00	87.60	CS3
ATOM	35683	NH2	ARG	C	164	185.908	122.187	13.857	1.00	87.60	CS3
ATOM	35684	C	ARG	C	164	192.149	122.177	12.654	1.00	51.16	CS3
ATOM	35685	O	ARG	C	164	193.256	122.296	13.159	1.00	51.16	CS3
ATOM	35686	N	THR	C	165	191.416	123.212	12.262	1.00	56.10	CS3
ATOM	35687	CA	THR	C	165	191.870	124.589	12.440	1.00	56.10	CS3
ATOM	35688	CB	THR	C	165	193.032	124.927	11.481	1.00	49.56	CS3
ATOM	35689	OG1	THR	C	165	194.273	124.526	12.079	1.00	49.56	CS3
ATOM	35690	CG2	THR	C	165	193.068	126.430	11.177	1.00	49.56	CS3
ATOM	35691	C	THR	C	165	190.726	125.567	12.208	1.00	56.10	CS3
ATOM	35692	O	THR	C	165	190.195	125.654	11.099	1.00	56.10	CS3
ATOM	35693	N	GLU	C	166	190.349	126.310	13.248	1.00	52.70	CS3
ATOM	35694	CA	GLU	C	166	189.259	127.257	13.098	1.00	52.70	CS3
ATOM	35695	CB	GLU	C	166	188.292	127.131	14.271	1.00	109.60	CS3
ATOM	35696	CG	GLU	C	166	186.889	126.716	13.822	1.00	109.60	CS3
ATOM	35697	CD	GLU	C	166	186.904	125.614	12.767	1.00	109.60	CS3
ATOM	35698	OE1	GLU	C	166	187.393	124.505	13.065	1.00	109.60	CS3
ATOM	35699	OE2	GLU	C	166	186.428	125.861	11.637	1.00	109.60	CS3
ATOM	35700	C	GLU	C	166	189.669	128.711	12.863	1.00	52.70	CS3
ATOM	35701	O	GLU	C	166	190.643	129.227	13.427	1.00	52.70	CS3
ATOM	35702	N	TRP	C	167	188.875	129.348	12.012	1.00	77.39	CS3
ATOM	35703	CA	TRP	C	167	189.069	130.712	11.556	1.00	77.39	CS3
ATOM	35704	CB	TRP	C	167	188.719	130.743	10.086	1.00	64.26	CS3
ATOM	35705	CG	TRP	C	167	189.862	131.024	9.296	1.00	64.26	CS3
ATOM	35706	CD2	TRP	C	167	190.094	132.211	8.561	1.00	64.26	CS3
ATOM	35707	CE2	TRP	C	167	191.375	132.107	8.010	1.00	64.26	CS3
ATOM	35708	CE3	TRP	C	167	189.341	133.361	8.318	1.00	64.26	CS3
ATOM	35709	CD1	TRP	C	167	190.962	130.259	9.171	1.00	64.26	CS3
ATOM	35710	NE1	TRP	C	167	191.886	130.898	8.400	1.00	64.26	CS3
ATOM	35711	CZ2	TRP	C	167	191.935	133.116	7.221	1.00	64.26	CS3
ATOM	35712	CZ3	TRP	C	167	189.889	134.364	7.538	1.00	64.26	CS3
ATOM	35713	CH2	TRP	C	167	191.178	134.236	6.997	1.00	64.26	CS3
ATOM	35714	C	TRP	C	167	188.315	131.835	12.255	1.00	77.39	CS3
ATOM	35715	O	TRP	C	167	188.345	131.950	13.473	1.00	77.39	CS3
ATOM	35716	N	ALA	C	168	187.659	132.670	11.443	1.00	41.64	CS3
ATOM	35717	CA	ALA	C	168	186.857	133.825	11.873	1.00	41.64	CS3
ATOM	35718	CB	ALA	C	168	186.291	133.592	13.263	1.00	87.28	CS3



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ATOM	35719	C	ALA	C	168	187.594	135.158	11.845	1.00	41.64	CS3
ATOM	35720	O	ALA	C	168	188.620	135.332	12.515	1.00	41.64	CS3
ATOM	35721	N	ALA	C	169	187.061	136.105	11.079	1.00	49.85	CS3
ATOM	35722	CA	ALA	C	169	187.673	137.424	10.999	1.00	49.85	CS3
ATOM	35723	CB	ALA	C	169	188.924	137.353	10.192	1.00	13.77	CS3
ATOM	35724	C	ALA	C	169	186.747	138.482	10.410	1.00	49.85	CS3
ATOM	35725	O	ALA	C	169	185.784	138.154	9.704	1.00	49.85	CS3
ATOM	35726	N	GLN	C	170	187.048	139.748	10.718	1.00	46.86	CS3
ATOM	35727	CA	GLN	C	170	186.289	140.911	10.234	1.00	46.86	CS3
ATOM	35728	CB	GLN	C	170	185.147	141.270	11.188	1.00	93.99	CS3
ATOM	35729	CG	GLN	C	170	183.967	140.319	11.211	1.00	93.99	CS3
ATOM	35730	CD	GLN	C	170	182.936	140.728	12.256	1.00	93.99	CS3
ATOM	35731	OE1	GLN	C	170	182.425	141.851	12.229	1.00	93.99	CS3
ATOM	35732	NE2	GLN	C	170	182.632	139.821	13.186	1.00	93.99	CS3
ATOM	35733	C	GLN	C	170	187.218	142.122	10.125	1.00	46.86	CS3
ATOM	35734	O	GLN	C	170	188.290	142.160	10.752	1.00	46.86	CS3
ATOM	35735	N	GLY	C	171	186.801	143.107	9.330	1.00	52.63	CS3
ATOM	35736	CA	GLY	C	171	187.590	144.318	9.164	1.00	52.63	CS3
ATOM	35737	C	GLY	C	171	188.971	144.058	8.610	1.00	52.63	CS3
ATOM	35738	O	GLY	C	171	189.250	142.956	8.156	1.00	52.63	CS3
ATOM	35739	N	ARG	C	172	189.841	145.061	8.636	1.00	57.27	CS3
ATOM	35740	CA	ARG	C	172	191.184	144.881	8.111	1.00	57.27	CS3
ATOM	35741	CB	ARG	C	172	191.734	146.202	7.575	1.00	84.88	CS3
ATOM	35742	CG	ARG	C	172	190.831	146.838	6.551	1.00	84.88	CS3
ATOM	35743	CD	ARG	C	172	191.584	147.713	5.556	1.00	84.88	CS3
ATOM	35744	NE	ARG	C	172	192.259	148.874	6.143	1.00	84.88	CS3
ATOM	35745	CZ	ARG	C	172	193.510	148.870	6.602	1.00	84.88	CS3
ATOM	35746	NH1	ARG	C	172	194.239	147.759	6.551	1.00	84.88	CS3
ATOM	35747	NH2	ARG	C	172	194.045	149.984	7.094	1.00	84.88	CS3
ATOM	35748	C	ARG	C	172	192.114	144.338	9.175	1.00	57.27	CS3
ATOM	35749	O	ARG	C	172	192.078	144.790	10.317	1.00	57.27	CS3
ATOM	35750	N	VAL	C	173	192.924	143.349	8.802	1.00	61.70	CS3
ATOM	35751	CA	VAL	C	173	193.912	142.747	9.704	1.00	61.70	CS3
ATOM	35752	CB	VAL	C	173	193.422	141.391	10.279	1.00	45.98	CS3
ATOM	35753	CG1	VAL	C	173	194.385	140.905	11.376	1.00	45.98	CS3
ATOM	35754	CG2	VAL	C	173	192.001	141.531	10.816	1.00	45.98	CS3
ATOM	35755	C	VAL	C	173	195.149	142.497	8.844	1.00	61.70	CS3
ATOM	35756	O	VAL	C	173	195.676	141.388	8.799	1.00	61.70	CS3
ATOM	35757	N	PRO	C	174	195.635	143.544	8.160	1.00	66.80	CS3
ATOM	35758	CD	PRO	C	174	195.211	144.937	8.401	1.00	53.45	CS3
ATOM	35759	CA	PRO	C	174	196.799	143.514	7.269	1.00	66.80	CS3
ATOM	35760	CB	PRO	C	174	196.798	144.918	6.683	1.00	53.45	CS3
ATOM	35761	CG	PRO	C	174	196.366	145.737	7.859	1.00	53.45	CS3
ATOM	35762	C	PRO	C	174	198.139	143.149	7.898	1.00	66.80	CS3
ATOM	35763	O	PRO	C	174	198.941	144.029	8.204	1.00	66.80	CS3
ATOM	35764	N	LEU	C	175	198.387	141.851	8.066	1.00	47.56	CS3
ATOM	35765	CA	LEU	C	175	199.636	141.385	8.656	1.00	47.56	CS3
ATOM	35766	CB	LEU	C	175	199.658	139.858	8.750	1.00	34.38	CS3
ATOM	35767	CG	LEU	C	175	198.856	139.097	9.821	1.00	34.38	CS3
ATOM	35768	CD1	LEU	C	175	199.808	138.140	10.594	1.00	34.38	CS3
ATOM	35769	CD2	LEU	C	175	198.160	140.083	10.778	1.00	34.38	CS3
ATOM	35770	C	LEU	C	175	200.847	141.849	7.852	1.00	47.56	CS3
ATOM	35771	O	LEU	C	175	201.970	141.887	8.368	1.00	47.56	CS3
ATOM	35772	N	HIS	C	176	200.619	142.211	6.592	1.00	57.42	CS3
ATOM	35773	CA	HIS	C	176	201.710	142.649	5.729	1.00	57.42	CS3
ATOM	35774	CB	HIS	C	176	201.375	142.383	4.254	1.00	64.23	CS3
ATOM	35775	CG	HIS	C	176	201.989	141.129	3.702	1.00	64.23	CS3
ATOM	35776	CD2	HIS	C	176	203.146	140.927	3.029	1.00	64.23	CS3
ATOM	35777	ND1	HIS	C	176	201.390	139.892	3.808	1.00	64.23	CS3
ATOM	35778	CE1	HIS	C	176	202.147	138.983	3.220	1.00	64.23	CS3
ATOM	35779	NE2	HIS	C	176	203.218	139.586	2.739	1.00	64.23	CS3
ATOM	35780	C	HIS	C	176	202.094	144.112	5.893	1.00	57.42	CS3
ATOM	35781	O	HIS	C	176	203.280	144.427	5.970	1.00	57.42	CS3
ATOM	35782	N	THR	C	177	201.100	145.000	5.932	1.00	64.74	CS3
ATOM	35783	CA	THR	C	177	201.361	146.436	6.071	1.00	64.74	CS3
ATOM	35784	CB	THR	C	177	200.075	147.263	5.844	1.00	69.13	CS3
ATOM	35785	OG1	THR	C	177	200.385	148.656	5.925	1.00	69.13	CS3
ATOM	35786	CG2	THR	C	177	199.042	146.933	6.871	1.00	69.13	CS3
ATOM	35787	C	THR	C	177	202.020	146.821	7.411	1.00	64.74	CS3
ATOM	35788	O	THR	C	177	201.383	146.984	8.446	1.00	64.74	CS3
ATOM	35789	N	LEU	C	178	203.334	146.952	7.332	1.00	62.12	CS3
ATOM	35790	CA	LEU	C	178	204.230	147.276	8.426	1.00	62.12	CS3
ATOM	35791	CB	LEU	C	178	205.645	147.206	7.880	1.00	41.75	CS3
ATOM	35792	CG	LEU	C	178	206.885	147.408	8.723	1.00	41.75	CS3
ATOM	35793	CD1	LEU	C	178	207.086	146.266	9.735	1.00	41.75	CS3
ATOM	35794	CD2	LEU	C	178	208.047	147.488	7.735	1.00	41.75	CS3
ATOM	35795	C	LEU	C	178	203.975	148.654	8.976	1.00	62.12	CS3



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ATOM	35796	O	LEU	C	178	204.705	149.573	8.647	1.00	62.12	CS3
ATOM	35797	N	ARG	C	179	202.957	148.789	9.819	1.00	58.84	CS3
ATOM	35798	CA	ARG	C	179	202.569	150.072	10.420	1.00	58.84	CS3
ATOM	35799	CB	ARG	C	179	202.814	151.234	9.440	1.00	76.51	CS3
ATOM	35800	CG	ARG	C	179	201.667	152.223	9.258	1.00	76.51	CS3
ATOM	35801	CD	ARG	C	179	200.708	151.794	8.162	1.00	76.51	CS3
ATOM	35802	NE	ARG	C	179	201.164	152.249	6.847	1.00	76.51	CS3
ATOM	35803	CZ	ARG	C	179	200.792	153.387	6.255	1.00	76.51	CS3
ATOM	35804	NH1	ARG	C	179	199.939	154.217	6.847	1.00	76.51	CS3
ATOM	35805	NH2	ARG	C	179	201.285	153.702	5.063	1.00	76.51	CS3
ATOM	35806	C	ARG	C	179	201.091	149.973	10.746	1.00	58.84	CS3
ATOM	35807	O	ARG	C	179	200.406	150.966	10.922	1.00	58.84	CS3
ATOM	35808	N	ALA	C	180	200.599	148.748	10.825	1.00	98.81	CS3
ATOM	35809	CA	ALA	C	180	199.196	148.535	11.118	1.00	98.81	CS3
ATOM	35810	CB	ALA	C	180	198.765	147.161	10.632	1.00	93.86	CS3
ATOM	35811	C	ALA	C	180	198.935	148.658	12.602	1.00	98.81	CS3
ATOM	35812	O	ALA	C	180	197.905	149.197	13.017	1.00	98.81	CS3
ATOM	35813	N	ASN	C	181	199.884	148.182	13.401	1.00	73.47	CS3
ATOM	35814	CA	ASN	C	181	199.712	148.204	14.847	1.00	73.47	CS3
ATOM	35815	CB	ASN	C	181	199.220	149.570	15.341	1.00	97.70	CS3
ATOM	35816	CG	ASN	C	181	198.781	149.535	16.794	1.00	97.70	CS3
ATOM	35817	OD1	ASN	C	181	199.547	149.147	17.676	1.00	97.70	CS3
ATOM	35818	ND2	ASN	C	181	197.541	149.938	17.048	1.00	97.70	CS3
ATOM	35819	C	ASN	C	181	198.640	147.158	15.075	1.00	73.47	CS3
ATOM	35820	O	ASN	C	181	197.459	147.460	15.291	1.00	73.47	CS3
ATOM	35821	N	ILE	C	182	199.073	145.913	15.001	1.00	64.24	CS3
ATOM	35822	CA	ILE	C	182	198.176	144.797	15.159	1.00	64.24	CS3
ATOM	35823	CB	ILE	C	182	198.224	143.942	13.883	1.00	56.78	CS3
ATOM	35824	CG2	ILE	C	182	197.322	142.738	14.029	1.00	56.78	CS3
ATOM	35825	CG1	ILE	C	182	197.842	144.824	12.681	1.00	56.78	CS3
ATOM	35826	CD1	ILE	C	182	197.691	144.098	11.348	1.00	56.78	CS3
ATOM	35827	C	ILE	C	182	198.544	143.974	16.391	1.00	64.24	CS3
ATOM	35828	O	ILE	C	182	199.474	143.176	16.361	1.00	64.24	CS3
ATOM	35829	N	ASP	C	183	197.813	144.167	17.480	1.00	51.51	CS3
ATOM	35830	CA	ASP	C	183	198.119	143.427	18.691	1.00	51.51	CS3
ATOM	35831	CB	ASP	C	183	197.227	143.890	19.853	1.00	117.95	CS3
ATOM	35832	CG	ASP	C	183	197.721	143.392	21.216	1.00	117.95	CS3
ATOM	35833	OD1	ASP	C	183	197.027	143.636	22.228	1.00	117.95	CS3
ATOM	35834	OD2	ASP	C	183	198.800	142.763	21.283	1.00	117.95	CS3
ATOM	35835	C	ASP	C	183	197.959	141.921	18.477	1.00	51.51	CS3
ATOM	35836	O	ASP	C	183	196.919	141.435	18.010	1.00	51.51	CS3
ATOM	35837	N	TYR	C	184	199.017	141.196	18.819	1.00	51.30	CS3
ATOM	35838	CA	TYR	C	184	199.035	139.753	18.704	1.00	51.30	CS3
ATOM	35839	CB	TYR	C	184	200.382	139.290	18.148	1.00	64.30	CS3
ATOM	35840	CG	TYR	C	184	200.500	137.792	18.061	1.00	64.30	CS3
ATOM	35841	CD1	TYR	C	184	199.749	137.075	17.137	1.00	64.30	CS3
ATOM	35842	CE1	TYR	C	184	199.790	135.690	17.105	1.00	64.30	CS3
ATOM	35843	CD2	TYR	C	184	201.307	137.086	18.952	1.00	64.30	CS3
ATOM	35844	CE2	TYR	C	184	201.360	135.700	18.933	1.00	64.30	CS3
ATOM	35845	CZ	TYR	C	184	200.594	135.004	18.008	1.00	64.30	CS3
ATOM	35846	OH	TYR	C	184	200.604	133.622	17.995	1.00	64.30	CS3
ATOM	35847	C	TYR	C	184	198.825	139.155	20.089	1.00	51.30	CS3
ATOM	35848	O	TYR	C	184	199.256	139.715	21.096	1.00	51.30	CS3
ATOM	35849	N	GLY	C	185	198.168	138.012	20.153	1.00	55.95	CS3
ATOM	35850	CA	GLY	C	185	197.964	137.409	21.447	1.00	55.95	CS3
ATOM	35851	C	GLY	C	185	197.781	135.919	21.325	1.00	55.95	CS3
ATOM	35852	O	GLY	C	185	196.762	135.449	20.809	1.00	55.95	CS3
ATOM	35853	N	PHE	C	186	198.766	135.165	21.787	1.00	52.98	CS3
ATOM	35854	CA	PHE	C	186	198.667	133.719	21.723	1.00	52.98	CS3
ATOM	35855	CB	PHE	C	186	200.015	133.102	21.350	1.00	66.65	CS3
ATOM	35856	CG	PHE	C	186	200.053	131.614	21.504	1.00	66.65	CS3
ATOM	35857	CD1	PHE	C	186	199.262	130.802	20.699	1.00	66.65	CS3
ATOM	35858	CD2	PHE	C	186	200.838	131.027	22.488	1.00	66.65	CS3
ATOM	35859	CE1	PHE	C	186	199.249	129.413	20.878	1.00	66.65	CS3
ATOM	35860	CE2	PHE	C	186	200.836	129.644	22.677	1.00	66.65	CS3
ATOM	35861	CZ	PHE	C	186	200.038	128.833	21.871	1.00	66.65	CS3
ATOM	35862	C	PHE	C	186	198.224	133.192	23.075	1.00	52.98	CS3
ATOM	35863	O	PHE	C	186	198.569	133.753	24.104	1.00	52.98	CS3
ATOM	35864	N	ALA	C	187	197.460	132.114	23.075	1.00	51.14	CS3
ATOM	35865	CA	ALA	C	187	197.002	131.538	24.322	1.00	51.14	CS3
ATOM	35866	CB	ALA	C	187	195.642	132.100	24.679	1.00	55.78	CS3
ATOM	35867	C	ALA	C	187	196.920	130.032	24.158	1.00	51.14	CS3
ATOM	35868	O	ALA	C	187	196.392	129.536	23.152	1.00	51.14	CS3
ATOM	35869	N	LEU	C	188	197.443	129.311	25.148	1.00	55.80	CS3
ATOM	35870	CA	LEU	C	188	197.443	127.847	25.151	1.00	55.80	CS3
ATOM	35871	CB	LEU	C	188	198.362	127.354	26.265	1.00	54.62	CS3
ATOM	35872	CG	LEU	C	188	199.234	126.136	25.986	1.00	54.62	CS3



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ATOM	35873	CD1	LEU	C	188	198.389	124.881	25.878	1.00	54.62	CS3
ATOM	35874	CD2	LEU	C	188	200.013	126.386	24.717	1.00	54.62	CS3
ATOM	35875	C	LEU	C	188	196.022	127.329	25.387	1.00	55.80	CS3
ATOM	35876	O	LEU	C	188	195.054	128.007	25.058	1.00	55.80	CS3
ATOM	35877	N	ALA	C	189	195.901	126.131	25.954	1.00	48.64	CS3
ATOM	35878	CA	ALA	C	189	194.600	125.524	26.264	1.00	48.64	CS3
ATOM	35879	CB	ALA	C	189	193.590	125.782	25.141	1.00	14.73	CS3
ATOM	35880	C	ALA	C	189	194.720	124.027	26.498	1.00	48.64	CS3
ATOM	35881	O	ALA	C	189	194.203	123.234	25.713	1.00	48.64	CS3
ATOM	35882	N	ARG	C	190	195.404	123.641	27.571	1.00	72.30	CS3
ATOM	35883	CA	ARG	C	190	195.574	122.232	27.904	1.00	72.30	CS3
ATOM	35884	CB	ARG	C	190	196.290	122.115	29.247	1.00	101.10	CS3
ATOM	35885	CG	ARG	C	190	197.591	122.917	29.330	1.00	101.10	CS3
ATOM	35886	CD	ARG	C	190	198.294	122.761	30.682	1.00	101.10	CS3
ATOM	35887	NE	ARG	C	190	198.796	121.404	30.930	1.00	101.10	CS3
ATOM	35888	CZ	ARG	C	190	198.041	120.341	31.224	1.00	101.10	CS3
ATOM	35889	NH1	ARG	C	190	196.719	120.452	31.318	1.00	101.10	CS3
ATOM	35890	NH2	ARG	C	190	198.609	119.153	31.423	1.00	101.10	CS3
ATOM	35891	C	ARG	C	190	194.181	121.594	27.971	1.00	72.30	CS3
ATOM	35892	O	ARG	C	190	193.204	122.275	28.284	1.00	72.30	CS3
ATOM	35893	N	THR	C	191	194.080	120.300	27.677	1.00	67.19	CS3
ATOM	35894	CA	THR	C	191	192.780	119.627	27.686	1.00	67.19	CS3
ATOM	35895	CB	THR	C	191	192.130	119.665	26.306	1.00	39.93	CS3
ATOM	35896	OG1	THR	C	191	192.026	121.025	25.869	1.00	39.93	CS3
ATOM	35897	CG2	THR	C	191	190.744	119.022	26.350	1.00	39.93	CS3
ATOM	35898	C	THR	C	191	192.868	118.168	28.065	1.00	67.19	CS3
ATOM	35899	O	THR	C	191	193.955	117.628	28.193	1.00	67.19	CS3
ATOM	35900	N	THR	C	192	191.718	117.524	28.231	1.00	73.54	CS3
ATOM	35901	CA	THR	C	192	191.700	116.114	28.572	1.00	73.54	CS3
ATOM	35902	CB	THR	C	192	190.278	115.625	28.923	1.00	79.41	CS3
ATOM	35903	OG1	THR	C	192	190.361	114.696	30.011	1.00	79.41	CS3
ATOM	35904	CG2	THR	C	192	189.627	114.908	27.728	1.00	79.41	CS3
ATOM	35905	C	THR	C	192	192.192	115.345	27.355	1.00	73.54	CS3
ATOM	35906	O	THR	C	192	192.702	114.228	27.473	1.00	73.54	CS3
ATOM	35907	N	TYR	C	193	192.043	115.960	26.185	1.00	75.94	CS3
ATOM	35908	CA	TYR	C	193	192.447	115.328	24.941	1.00	75.94	CS3
ATOM	35909	CB	TYR	C	193	191.270	115.322	23.968	1.00	77.06	CS3
ATOM	35910	CG	TYR	C	193	190.600	116.662	23.791	1.00	77.06	CS3
ATOM	35911	CD1	TYR	C	193	191.291	117.754	23.263	1.00	77.06	CS3
ATOM	35912	CE1	TYR	C	193	190.654	118.984	23.066	1.00	77.06	CS3
ATOM	35913	CD2	TYR	C	193	189.261	116.829	24.122	1.00	77.06	CS3
ATOM	35914	CE2	TYR	C	193	188.615	118.047	23.934	1.00	77.06	CS3
ATOM	35915	CZ	TYR	C	193	189.310	119.121	23.405	1.00	77.06	CS3
ATOM	35916	OH	TYR	C	193	188.644	120.317	23.213	1.00	77.06	CS3
ATOM	35917	C	TYR	C	193	193.670	115.933	24.263	1.00	75.94	CS3
ATOM	35918	O	TYR	C	193	194.063	115.487	23.193	1.00	75.94	CS3
ATOM	35919	N	GLY	C	194	194.272	116.948	24.870	1.00	66.95	CS3
ATOM	35920	CA	GLY	C	194	195.452	117.541	24.265	1.00	66.95	CS3
ATOM	35921	C	GLY	C	194	195.431	119.041	24.021	1.00	66.95	CS3
ATOM	35922	O	GLY	C	194	194.376	119.661	23.873	1.00	66.95	CS3
ATOM	35923	N	VAL	C	195	196.624	119.617	23.965	1.00	50.89	CS3
ATOM	35924	CA	VAL	C	195	196.799	121.043	23.748	1.00	50.89	CS3
ATOM	35925	CB	VAL	C	195	198.287	121.363	23.615	1.00	83.84	CS3
ATOM	35926	CG1	VAL	C	195	198.491	122.857	23.482	1.00	83.84	CS3
ATOM	35927	CG2	VAL	C	195	199.035	120.803	24.799	1.00	83.84	CS3
ATOM	35928	C	VAL	C	195	196.101	121.574	22.494	1.00	50.89	CS3
ATOM	35929	O	VAL	C	195	195.908	120.838	21.533	1.00	50.89	CS3
ATOM	35930	N	LEU	C	196	195.723	122.851	22.520	1.00	42.09	CS3
ATOM	35931	CA	LEU	C	196	195.103	123.527	21.381	1.00	42.09	CS3
ATOM	35932	CB	LEU	C	196	193.578	123.514	21.446	1.00	75.22	CS3
ATOM	35933	CG	LEU	C	196	192.697	122.331	21.852	1.00	75.22	CS3
ATOM	35934	CD1	LEU	C	196	191.369	122.542	21.124	1.00	75.22	CS3
ATOM	35935	CD2	LEU	C	196	193.273	120.972	21.481	1.00	75.22	CS3
ATOM	35936	C	LEU	C	196	195.563	124.975	21.496	1.00	42.09	CS3
ATOM	35937	O	LEU	C	196	195.336	125.614	22.517	1.00	42.09	CS3
ATOM	35938	N	GLY	C	197	196.216	125.502	20.470	1.00	45.86	CS3
ATOM	35939	CA	GLY	C	197	196.678	126.876	20.548	1.00	45.86	CS3
ATOM	35940	C	GLY	C	197	195.586	127.842	20.141	1.00	45.86	CS3
ATOM	35941	O	GLY	C	197	194.623	127.446	19.473	1.00	45.86	CS3
ATOM	35942	N	VAL	C	198	195.721	129.107	20.535	1.00	44.85	CS3
ATOM	35943	CA	VAL	C	198	194.723	130.110	20.180	1.00	44.85	CS3
ATOM	35944	CB	VAL	C	198	193.717	130.328	21.323	1.00	46.43	CS3
ATOM	35945	CG1	VAL	C	198	192.633	131.299	20.868	1.00	46.43	CS3
ATOM	35946	CG2	VAL	C	198	193.099	128.997	21.740	1.00	46.43	CS3
ATOM	35947	C	VAL	C	198	195.361	131.445	19.841	1.00	44.85	CS3
ATOM	35948	O	VAL	C	198	196.113	132.001	20.638	1.00	44.85	CS3
ATOM	35949	N	LYS	C	199	195.045	131.968	18.663	1.00	65.30	CS3



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ATOM	35950	CA	LYS	C	199	195.615	133.236	18.243	1.00	65.30	CS3
ATOM	35951	CB	LYS	C	199	196.402	133.040	16.944	1.00	86.68	CS3
ATOM	35952	CG	LYS	C	199	197.674	132.224	17.138	1.00	86.68	CS3
ATOM	35953	CD	LYS	C	199	198.287	131.782	15.820	1.00	86.68	CS3
ATOM	35954	CE	LYS	C	199	199.415	130.787	16.079	1.00	86.68	CS3
ATOM	35955	NZ	LYS	C	199	199.585	129.786	14.979	1.00	86.68	CS3
ATOM	35956	C	LYS	C	199	194.585	134.344	18.076	1.00	65.30	CS3
ATOM	35957	O	LYS	C	199	193.505	134.121	17.532	1.00	65.30	CS3
ATOM	35958	N	ALA	C	200	194.927	135.539	18.552	1.00	45.52	CS3
ATOM	35959	CA	ALA	C	200	194.042	136.690	18.451	1.00	45.52	CS3
ATOM	35960	CB	ALA	C	200	193.585	137.116	19.836	1.00	126.02	CS3
ATOM	35961	C	ALA	C	200	194.763	137.845	17.756	1.00	45.52	CS3
ATOM	35962	O	ALA	C	200	195.864	138.246	18.157	1.00	45.52	CS3
ATOM	35963	N	TYR	C	201	194.138	138.371	16.707	1.00	54.61	CS3
ATOM	35964	CA	TYR	C	201	194.698	139.481	15.946	1.00	54.61	CS3
ATOM	35965	CB	TYR	C	201	194.901	139.082	14.479	1.00	84.70	CS3
ATOM	35966	CG	TYR	C	201	196.031	138.114	14.255	1.00	84.70	CS3
ATOM	35967	CD1	TYR	C	201	195.935	136.797	14.689	1.00	84.70	CS3
ATOM	35968	CE1	TYR	C	201	196.987	135.911	14.526	1.00	84.70	CS3
ATOM	35969	CD2	TYR	C	201	197.213	138.524	13.644	1.00	84.70	CS3
ATOM	35970	CE2	TYR	C	201	198.274	137.648	13.477	1.00	84.70	CS3
ATOM	35971	CZ	TYR	C	201	198.155	136.341	13.921	1.00	84.70	CS3
ATOM	35972	OH	TYR	C	201	199.201	135.454	13.770	1.00	40.95	CS3
ATOM	35973	C	TYR	C	201	193.777	140.693	15.998	1.00	54.61	CS3
ATOM	35974	O	TYR	C	201	192.654	140.651	15.476	1.00	54.61	CS3
ATOM	35975	N	ILE	C	202	194.242	141.775	16.616	1.00	50.93	CS3
ATOM	35976	CA	ILE	C	202	193.421	142.978	16.691	1.00	50.93	CS3
ATOM	35977	CB	ILE	C	202	193.096	143.349	18.149	1.00	73.56	CS3
ATOM	35978	CG2	ILE	C	202	192.003	144.420	18.166	1.00	73.56	CS3
ATOM	35979	CG1	ILE	C	202	192.644	142.090	18.911	1.00	73.56	CS3
ATOM	35980	CD1	ILE	C	202	192.219	142.312	20.358	1.00	73.56	CS3
ATOM	35981	C	ILE	C	202	194.087	144.159	16.004	1.00	50.93	CS3
ATOM	35982	O	ILE	C	202	195.187	144.570	16.362	1.00	50.93	CS3
ATOM	35983	N	PHE	C	203	193.407	144.696	15.005	1.00	65.85	CS3
ATOM	35984	CA	PHE	C	203	193.923	145.817	14.249	1.00	65.85	CS3
ATOM	35985	CB	PHE	C	203	193.578	145.629	12.774	1.00	39.33	CS3
ATOM	35986	CG	PHE	C	203	193.935	146.807	11.911	1.00	39.33	CS3
ATOM	35987	CD1	PHE	C	203	195.240	147.290	11.872	1.00	39.33	CS3
ATOM	35988	CD2	PHE	C	203	192.970	147.425	11.122	1.00	39.33	CS3
ATOM	35989	CE1	PHE	C	203	195.577	148.374	11.057	1.00	39.33	CS3
ATOM	35990	CE2	PHE	C	203	193.298	148.512	10.303	1.00	39.33	CS3
ATOM	35991	CZ	PHE	C	203	194.603	148.988	10.269	1.00	39.33	CS3
ATOM	35992	C	PHE	C	203	193.327	147.118	14.760	1.00	65.85	CS3
ATOM	35993	O	PHE	C	203	192.116	147.325	14.666	1.00	65.85	CS3
ATOM	35994	N	LEU	C	204	194.176	147.992	15.297	1.00	89.49	CS3
ATOM	35995	CA	LEU	C	204	193.730	149.283	15.830	1.00	89.49	CS3
ATOM	35996	CB	LEU	C	204	194.188	149.446	17.284	1.00	42.77	CS3
ATOM	35997	CG	LEU	C	204	194.440	148.146	18.067	1.00	42.77	CS3
ATOM	35998	CD1	LEU	C	204	195.309	148.414	19.298	1.00	42.77	CS3
ATOM	35999	CD2	LEU	C	204	193.109	147.510	18.463	1.00	42.77	CS3
ATOM	36000	C	LEU	C	204	194.356	150.386	14.992	1.00	89.49	CS3
ATOM	36001	O	LEU	C	204	195.526	150.286	14.622	1.00	89.49	CS3
ATOM	36002	N	GLY	C	205	193.589	151.430	14.697	1.00	96.69	CS3
ATOM	36003	CA	GLY	C	205	194.104	152.537	13.902	1.00	96.69	CS3
ATOM	36004	C	GLY	C	205	195.193	152.167	12.904	1.00	96.69	CS3
ATOM	36005	O	GLY	C	205	195.171	151.083	12.326	1.00	96.69	CS3
ATOM	36006	N	GLU	C	206	196.152	153.060	12.684	1.00	127.12	CS3
ATOM	36007	CA	GLU	C	206	197.217	152.748	11.749	1.00	127.12	CS3
ATOM	36008	CB	GLU	C	206	196.757	153.002	10.311	1.00	90.61	CS3
ATOM	36009	CG	GLU	C	206	197.651	152.342	9.260	1.00	90.61	CS3
ATOM	36010	CD	GLU	C	206	197.153	152.540	7.832	1.00	90.61	CS3
ATOM	36011	OE1	GLU	C	206	197.792	152.012	6.892	1.00	90.61	CS3
ATOM	36012	OE2	GLU	C	206	196.122	153.221	7.647	1.00	90.61	CS3
ATOM	36013	C	GLU	C	206	198.538	153.469	12.007	1.00	127.12	CS3
ATOM	36014	O	GLU	C	206	199.325	153.018	12.842	1.00	127.12	CS3
ATOM	36015	N	VAL	C	207	198.774	154.585	11.310	1.00	117.27	CS3
ATOM	36016	CA	VAL	C	207	200.040	155.331	11.420	1.00	117.27	CS3
ATOM	36017	CB	VAL	C	207	199.876	156.817	10.994	1.00	71.56	CS3
ATOM	36018	CG1	VAL	C	207	201.249	157.442	10.742	1.00	71.56	CS3
ATOM	36019	CG2	VAL	C	207	199.020	156.914	9.746	1.00	71.56	CS3
ATOM	36020	C	VAL	C	207	200.725	155.308	12.787	1.00	117.27	CS3
ATOM	36021	O	VAL	C	207	200.039	155.106	13.811	1.00	117.27	CS3
ATOM	36022	OXT	VAL	C	207	201.960	155.506	12.810	1.00	71.56	CS3
TER	36022	VAL	C	207							CS3
ATOM	36023	C	GLY	D	2	148.907	96.278	32.492	1.00	65.62	DS4
ATOM	36024	O	GLY	D	2	150.087	96.399	32.147	1.00	65.62	DS4
ATOM	36025	N	GLY	D	2	149.193	93.791	32.206	1.00	65.62	DS4



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ATOM	36026	CA	GLY	D	2	148.254	94.906	32.546	1.00	65.62	DS4
ATOM	36027	N	ARG	D	3	148.138	97.309	32.841	1.00	73.82	DS4
ATOM	36028	CA	ARG	D	3	148.618	98.687	32.834	1.00	73.82	DS4
ATOM	36029	CB	ARG	D	3	147.609	99.597	33.539	1.00	197.83	DS4
ATOM	36030	CG	ARG	D	3	146.242	99.616	32.861	1.00	197.83	DS4
ATOM	36031	CD	ARG	D	3	146.360	99.992	31.382	1.00	197.83	DS4
ATOM	36032	NE	ARG	D	3	145.558	99.123	30.522	1.00	197.83	DS4
ATOM	36033	CZ	ARG	D	3	144.241	99.214	30.360	1.00	197.83	DS4
ATOM	36034	NH1	ARG	D	3	143.542	100.147	30.992	1.00	197.83	DS4
ATOM	36035	NH2	ARG	D	3	143.620	98.351	29.571	1.00	197.83	DS4
ATOM	36036	C	ARG	D	3	150.000	98.835	33.467	1.00	73.82	DS4
ATOM	36037	O	ARG	D	3	150.416	98.005	34.271	1.00	73.82	DS4
ATOM	36038	N	TYR	D	4	150.694	99.907	33.096	1.00	93.20	DS4
ATOM	36039	CA	TYR	D	4	152.048	100.197	33.561	1.00	93.20	DS4
ATOM	36040	CB	TYR	D	4	152.268	101.698	33.653	1.00	63.99	DS4
ATOM	36041	CG	TYR	D	4	153.704	102.051	33.963	1.00	63.99	DS4
ATOM	36042	CD1	TYR	D	4	154.742	101.239	33.526	1.00	63.99	DS4
ATOM	36043	CE1	TYR	D	4	156.058	101.577	33.758	1.00	63.99	DS4
ATOM	36044	CD2	TYR	D	4	154.026	103.216	34.649	1.00	63.99	DS4
ATOM	36045	CE2	TYR	D	4	155.343	103.564	34.886	1.00	63.99	DS4
ATOM	36046	CZ	TYR	D	4	156.355	102.740	34.436	1.00	63.99	DS4
ATOM	36047	OH	TYR	D	4	157.674	103.075	34.646	1.00	63.99	DS4
ATOM	36048	C	TYR	D	4	152.534	99.578	34.857	1.00	93.20	DS4
ATOM	36049	O	TYR	D	4	153.047	98.461	34.866	1.00	93.20	DS4
ATOM	36050	N	ILE	D	5	152.409	100.325	35.946	1.00	113.53	DS4
ATOM	36051	CA	ILE	D	5	152.860	99.844	37.245	1.00	113.53	DS4
ATOM	36052	CB	ILE	D	5	152.279	98.453	37.548	1.00	78.49	DS4
ATOM	36053	CG2	ILE	D	5	153.005	97.816	38.712	1.00	78.49	DS4
ATOM	36054	CG1	ILE	D	5	150.781	98.597	37.825	1.00	78.49	DS4
ATOM	36055	CD1	ILE	D	5	150.055	97.291	38.061	1.00	78.49	DS4
ATOM	36056	C	ILE	D	5	154.380	99.794	37.277	1.00	113.53	DS4
ATOM	36057	O	ILE	D	5	154.996	98.765	36.990	1.00	113.53	DS4
ATOM	36058	N	GLY	D	6	154.968	100.933	37.623	1.00	44.32	DS4
ATOM	36059	CA	GLY	D	6	156.412	101.072	37.703	1.00	44.32	DS4
ATOM	36060	C	GLY	D	6	156.666	102.513	38.087	1.00	44.32	DS4
ATOM	36061	O	GLY	D	6	155.725	103.307	38.065	1.00	44.32	DS4
ATOM	36062	N	PRO	D	7	157.900	102.897	38.436	1.00	50.68	DS4
ATOM	36063	CD	PRO	D	7	159.183	102.290	38.062	1.00	59.74	DS4
ATOM	36064	CA	PRO	D	7	158.083	104.305	38.802	1.00	50.68	DS4
ATOM	36065	CB	PRO	D	7	159.588	104.506	38.674	1.00	59.74	DS4
ATOM	36066	CG	PRO	D	7	159.967	103.500	37.634	1.00	59.74	DS4
ATOM	36067	C	PRO	D	7	157.285	105.190	37.855	1.00	50.68	DS4
ATOM	36068	O	PRO	D	7	157.411	105.072	36.637	1.00	50.68	DS4
ATOM	36069	N	VAL	D	8	156.443	106.053	38.419	1.00	37.09	DS4
ATOM	36070	CA	VAL	D	8	155.608	106.943	37.624	1.00	37.09	DS4
ATOM	36071	CB	VAL	D	8	154.174	106.880	38.100	1.00	29.93	DS4
ATOM	36072	CG1	VAL	D	8	153.326	107.826	37.304	1.00	29.93	DS4
ATOM	36073	CG2	VAL	D	8	153.669	105.456	37.954	1.00	29.93	DS4
ATOM	36074	C	VAL	D	8	156.061	108.394	37.593	1.00	37.09	DS4
ATOM	36075	O	VAL	D	8	156.280	108.929	36.515	1.00	37.09	DS4
ATOM	36076	N	CYS	D	9	156.175	109.055	38.743	1.00	122.58	DS4
ATOM	36077	CA	CYS	D	9	156.642	110.435	38.702	1.00	122.58	DS4
ATOM	36078	CB	CYS	D	9	156.542	111.116	40.092	1.00	24.31	DS4
ATOM	36079	SG	CYS	D	9	156.080	112.929	40.043	1.00	24.31	DS4
ATOM	36080	C	CYS	D	9	158.089	110.248	38.214	1.00	122.58	DS4
ATOM	36081	O	CYS	D	9	159.046	110.217	38.989	1.00	122.58	DS4
ATOM	36082	N	ARG	D	10	158.183	110.054	36.897	1.00	58.78	DS4
ATOM	36083	CA	ARG	D	10	159.415	109.826	36.129	1.00	58.78	DS4
ATOM	36084	CB	ARG	D	10	159.942	108.388	36.308	1.00	60.15	DS4
ATOM	36085	CG	ARG	D	10	159.610	107.438	35.131	1.00	60.15	DS4
ATOM	36086	CD	ARG	D	10	160.070	105.972	35.356	1.00	60.15	DS4
ATOM	36087	NE	ARG	D	10	161.506	105.757	35.158	1.00	60.15	DS4
ATOM	36088	CZ	ARG	D	10	162.122	105.873	33.985	1.00	60.15	DS4
ATOM	36089	NH1	ARG	D	10	161.435	106.202	32.899	1.00	60.15	DS4
ATOM	36090	NH2	ARG	D	10	163.424	105.656	33.892	1.00	60.15	DS4
ATOM	36091	C	ARG	D	10	158.969	110.017	34.676	1.00	58.78	DS4
ATOM	36092	O	ARG	D	10	159.756	110.383	33.803	1.00	58.78	DS4
ATOM	36093	N	LEU	D	11	157.696	109.714	34.437	1.00	67.54	DS4
ATOM	36094	CA	LEU	D	11	157.077	109.899	33.135	1.00	67.54	DS4
ATOM	36095	CB	LEU	D	11	155.747	109.165	33.059	1.00	50.67	DS4
ATOM	36096	CG	LEU	D	11	155.861	107.679	33.386	1.00	50.67	DS4
ATOM	36097	CD1	LEU	D	11	154.530	107.103	33.864	1.00	50.67	DS4
ATOM	36098	CD2	LEU	D	11	156.362	106.973	32.149	1.00	50.67	DS4
ATOM	36099	C	LEU	D	11	156.820	111.389	33.180	1.00	67.54	DS4
ATOM	36100	O	LEU	D	11	157.080	112.100	32.214	1.00	67.54	DS4
ATOM	36101	N	CYS	D	12	156.303	111.854	34.323	1.00	64.44	DS4
ATOM	36102	CA	CYS	D	12	156.049	113.282	34.532	1.00	64.44	DS4



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ATOM	36103	CB	CYS	D	12	155.958	113.634	36.054	1.00	47.66	DS4
ATOM	36104	SG	CYS	D	12	154.390	113.488	37.071	1.00	47.66	DS4
ATOM	36105	C	CYS	D	12	157.316	113.947	33.951	1.00	64.44	DS4
ATOM	36106	O	CYS	D	12	157.249	114.840	33.104	1.00	64.44	DS4
ATOM	36107	N	ARG	D	13	158.470	113.447	34.394	1.00	51.49	DS4
ATOM	36108	CA	ARG	D	13	159.771	113.977	34.000	1.00	51.49	DS4
ATOM	36109	CB	ARG	D	13	160.864	113.391	34.897	1.00	51.74	DS4
ATOM	36110	CG	ARG	D	13	160.709	113.761	36.362	1.00	51.74	DS4
ATOM	36111	CD	ARG	D	13	162.064	113.987	37.029	1.00	51.74	DS4
ATOM	36112	NE	ARG	D	13	162.822	112.755	37.226	1.00	51.74	DS4
ATOM	36113	CZ	ARG	D	13	164.091	112.590	36.857	1.00	51.74	DS4
ATOM	36114	NH1	ARG	D	13	164.754	113.581	36.264	1.00	51.74	DS4
ATOM	36115	NH2	ARG	D	13	164.698	111.430	37.081	1.00	51.74	DS4
ATOM	36116	C	ARG	D	13	160.190	113.833	32.549	1.00	51.49	DS4
ATOM	36117	O	ARG	D	13	160.946	114.660	32.043	1.00	51.49	DS4
ATOM	36118	N	ARG	D	14	159.732	112.787	31.878	1.00	55.28	DS4
ATOM	36119	CA	ARG	D	14	160.095	112.607	30.474	1.00	55.28	DS4
ATOM	36120	CB	ARG	D	14	159.928	111.144	30.050	1.00	66.51	DS4
ATOM	36121	CG	ARG	D	14	159.871	110.941	28.532	1.00	66.51	DS4
ATOM	36122	CD	ARG	D	14	161.160	111.382	27.872	1.00	66.51	DS4
ATOM	36123	NE	ARG	D	14	162.287	110.575	28.323	1.00	66.51	DS4
ATOM	36124	CZ	ARG	D	14	163.552	110.804	27.988	1.00	66.51	DS4
ATOM	36125	NH1	ARG	D	14	163.863	111.825	27.193	1.00	66.51	DS4
ATOM	36126	NH2	ARG	D	14	164.508	110.007	28.446	1.00	66.51	DS4
ATOM	36127	C	ARG	D	14	159.227	113.498	29.584	1.00	55.28	DS4
ATOM	36128	O	ARG	D	14	159.701	114.073	28.600	1.00	55.28	DS4
ATOM	36129	N	GLU	D	15	157.949	113.601	29.937	1.00	64.16	DS4
ATOM	36130	CA	GLU	D	15	157.022	114.416	29.182	1.00	64.16	DS4
ATOM	36131	CB	GLU	D	15	155.581	114.023	29.503	1.00	90.82	DS4
ATOM	36132	CG	GLU	D	15	154.916	113.180	28.427	1.00	90.82	DS4
ATOM	36133	CD	GLU	D	15	155.768	111.998	27.994	1.00	90.82	DS4
ATOM	36134	OE1	GLU	D	15	156.267	111.271	28.877	1.00	90.82	DS4
ATOM	36135	OE2	GLU	D	15	155.933	111.789	26.773	1.00	90.82	DS4
ATOM	36136	C	GLU	D	15	157.239	115.873	29.513	1.00	64.16	DS4
ATOM	36137	O	GLU	D	15	156.404	116.700	29.178	1.00	64.16	DS4
ATOM	36138	N	GLY	D	16	158.355	116.181	30.172	1.00	113.58	DS4
ATOM	36139	CA	GLY	D	16	158.667	117.556	30.537	1.00	113.58	DS4
ATOM	36140	C	GLY	D	16	157.438	118.387	30.861	1.00	113.58	DS4
ATOM	36141	O	GLY	D	16	157.410	119.604	30.667	1.00	113.58	DS4
ATOM	36142	N	VAL	D	17	156.414	117.711	31.360	1.00	59.03	DS4
ATOM	36143	CA	VAL	D	17	155.157	118.342	31.711	1.00	59.03	DS4
ATOM	36144	CB	VAL	D	17	154.125	118.198	30.569	1.00	64.99	DS4
ATOM	36145	CG1	VAL	D	17	152.712	118.437	31.082	1.00	64.99	DS4
ATOM	36146	CG2	VAL	D	17	154.449	119.196	29.475	1.00	64.99	DS4
ATOM	36147	C	VAL	D	17	154.645	117.651	32.955	1.00	59.03	DS4
ATOM	36148	O	VAL	D	17	154.882	116.461	33.163	1.00	59.03	DS4
ATOM	36149	N	LYS	D	18	153.941	118.404	33.785	1.00	76.78	DS4
ATOM	36150	CA	LYS	D	18	153.415	117.864	35.024	1.00	76.78	DS4
ATOM	36151	CB	LYS	D	18	153.098	119.020	35.976	1.00	101.30	DS4
ATOM	36152	CG	LYS	D	18	152.994	118.652	37.447	1.00	101.30	DS4
ATOM	36153	CD	LYS	D	18	152.722	119.907	38.266	1.00	101.30	DS4
ATOM	36154	CE	LYS	D	18	152.493	119.604	39.734	1.00	101.30	DS4
ATOM	36155	NZ	LYS	D	18	152.081	120.828	40.481	1.00	101.30	DS4
ATOM	36156	C	LYS	D	18	152.170	117.024	34.758	1.00	76.78	DS4
ATOM	36157	O	LYS	D	18	151.203	117.502	34.172	1.00	76.78	DS4
ATOM	36158	N	LEU	D	19	152.214	115.760	35.159	1.00	143.88	DS4
ATOM	36159	CA	LEU	D	19	151.069	114.879	34.993	1.00	143.88	DS4
ATOM	36160	CB	LEU	D	19	151.433	113.636	34.204	1.00	47.22	DS4
ATOM	36161	CG	LEU	D	19	151.845	113.866	32.761	1.00	47.22	DS4
ATOM	36162	CD1	LEU	D	19	152.613	112.649	32.292	1.00	47.22	DS4
ATOM	36163	CD2	LEU	D	19	150.625	114.123	31.894	1.00	47.22	DS4
ATOM	36164	C	LEU	D	19	150.642	114.472	36.377	1.00	143.88	DS4
ATOM	36165	O	LEU	D	19	151.478	114.269	37.268	1.00	143.88	DS4
ATOM	36166	N	TYR	D	20	149.338	114.351	36.564	1.00	74.03	DS4
ATOM	36167	CA	TYR	D	20	148.834	113.979	37.866	1.00	74.03	DS4
ATOM	36168	CB	TYR	D	20	147.597	114.819	38.205	1.00	72.95	DS4
ATOM	36169	CG	TYR	D	20	147.938	116.294	38.302	1.00	72.95	DS4
ATOM	36170	CD1	TYR	D	20	147.622	117.173	37.270	1.00	72.95	DS4
ATOM	36171	CE1	TYR	D	20	148.054	118.499	37.297	1.00	72.95	DS4
ATOM	36172	CD2	TYR	D	20	148.685	116.785	39.374	1.00	72.95	DS4
ATOM	36173	CE2	TYR	D	20	149.122	118.107	39.409	1.00	72.95	DS4
ATOM	36174	CZ	TYR	D	20	148.808	118.957	38.366	1.00	72.95	DS4
ATOM	36175	OH	TYR	D	20	149.279	120.252	38.369	1.00	72.95	DS4
ATOM	36176	C	TYR	D	20	148.554	112.490	37.903	1.00	74.03	DS4
ATOM	36177	O	TYR	D	20	147.466	112.033	37.554	1.00	74.03	DS4
ATOM	36178	N	LEU	D	21	149.565	111.736	38.326	1.00	67.89	DS4
ATOM	36179	CA	LEU	D	21	149.465	110.287	38.396	1.00	67.89	DS4



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ATOM	36180	CB	LEU	D	21	150.608	109.665	37.595	1.00	58.11	DS4
ATOM	36181	CG	LEU	D	21	150.591	110.110	36.127	1.00	58.11	DS4
ATOM	36182	CD1	LEU	D	21	151.915	109.788	35.446	1.00	58.11	DS4
ATOM	36183	CD2	LEU	D	21	149.426	109.437	35.408	1.00	58.11	DS4
ATOM	36184	C	LEU	D	21	149.498	109.802	39.832	1.00	67.89	DS4
ATOM	36185	O	LEU	D	21	149.658	108.607	40.091	1.00	67.89	DS4
ATOM	36186	N	LYS	D	22	149.328	110.737	40.762	1.00	80.70	DS4
ATOM	36187	CA	LYS	D	22	149.343	110.397	42.175	1.00	80.70	DS4
ATOM	36188	CB	LYS	D	22	150.750	110.594	42.729	1.00	63.89	DS4
ATOM	36189	CG	LYS	D	22	151.482	109.298	43.037	1.00	63.89	DS4
ATOM	36190	CD	LYS	D	22	152.919	109.559	43.472	1.00	63.89	DS4
ATOM	36191	CE	LYS	D	22	153.671	108.256	43.705	1.00	63.89	DS4
ATOM	36192	NZ	LYS	D	22	155.105	108.524	43.977	1.00	63.89	DS4
ATOM	36193	C	LYS	D	22	148.346	111.178	43.025	1.00	80.70	DS4
ATOM	36194	O	LYS	D	22	148.282	110.993	44.245	1.00	80.70	DS4
ATOM	36195	N	GLY	D	23	147.562	112.040	42.392	1.00	153.25	DS4
ATOM	36196	CA	GLY	D	23	146.606	112.819	43.153	1.00	153.25	DS4
ATOM	36197	C	GLY	D	23	147.350	113.702	44.135	1.00	153.25	DS4
ATOM	36198	O	GLY	D	23	148.054	114.621	43.714	1.00	153.25	DS4
ATOM	36199	N	GLU	D	24	147.218	113.428	45.433	1.00	104.04	DS4
ATOM	36200	CA	GLU	D	24	147.906	114.236	46.434	1.00	104.04	DS4
ATOM	36201	CB	GLU	D	24	147.625	113.729	47.846	1.00	139.85	DS4
ATOM	36202	CG	GLU	D	24	148.097	114.707	48.909	1.00	139.85	DS4
ATOM	36203	CD	GLU	D	24	147.819	114.231	50.314	1.00	139.85	DS4
ATOM	36204	OE1	GLU	D	24	146.645	113.918	50.608	1.00	139.85	DS4
ATOM	36205	OE2	GLU	D	24	148.771	114.175	51.124	1.00	139.85	DS4
ATOM	36206	C	GLU	D	24	149.397	114.172	46.155	1.00	104.04	DS4
ATOM	36207	O	GLU	D	24	149.819	113.450	45.260	1.00	104.04	DS4
ATOM	36208	N	ARG	D	25	150.193	114.916	46.916	1.00	78.09	DS4
ATOM	36209	CA	ARG	D	25	151.644	114.953	46.724	1.00	78.09	DS4
ATOM	36210	CB	ARG	D	25	152.283	113.549	46.753	1.00	65.60	DS4
ATOM	36211	CG	ARG	D	25	153.799	113.559	46.412	1.00	65.60	DS4
ATOM	36212	CD	ARG	D	25	154.470	112.181	46.515	1.00	65.60	DS4
ATOM	36213	NE	ARG	D	25	155.675	112.215	47.356	1.00	65.60	DS4
ATOM	36214	CZ	ARG	D	25	156.932	112.256	46.913	1.00	65.60	DS4
ATOM	36215	NH1	ARG	D	25	157.190	112.265	45.616	1.00	65.60	DS4
ATOM	36216	NH2	ARG	D	25	157.939	112.284	47.778	1.00	65.60	DS4
ATOM	36217	C	ARG	D	25	151.984	115.605	45.399	1.00	78.09	DS4
ATOM	36218	O	ARG	D	25	152.850	116.476	45.346	1.00	78.09	DS4
ATOM	36219	N	CYS	D	26	151.319	115.178	44.325	1.00	97.52	DS4
ATOM	36220	CA	CYS	D	26	151.570	115.755	43.011	1.00	97.52	DS4
ATOM	36221	CB	CYS	D	26	150.736	115.032	41.922	1.00	47.55	DS4
ATOM	36222	SG	CYS	D	26	151.719	114.146	40.608	1.00	47.55	DS4
ATOM	36223	C	CYS	D	26	151.213	117.248	43.120	1.00	97.52	DS4
ATOM	36224	O	CYS	D	26	151.164	117.965	42.122	1.00	97.52	DS4
ATOM	36225	N	TYR	D	27	150.971	117.695	44.356	1.00	74.16	DS4
ATOM	36226	CA	TYR	D	27	150.663	119.093	44.668	1.00	74.16	DS4
ATOM	36227	CB	TYR	D	27	149.277	119.216	45.287	1.00	62.09	DS4
ATOM	36228	CG	TYR	D	27	148.202	118.917	44.288	1.00	62.09	DS4
ATOM	36229	CD1	TYR	D	27	147.930	117.604	43.913	1.00	62.09	DS4
ATOM	36230	CE1	TYR	D	27	147.014	117.317	42.910	1.00	62.09	DS4
ATOM	36231	CD2	TYR	D	27	147.520	119.949	43.637	1.00	62.09	DS4
ATOM	36232	CE2	TYR	D	27	146.600	119.675	42.626	1.00	62.09	DS4
ATOM	36233	CZ	TYR	D	27	146.358	118.353	42.268	1.00	62.09	DS4
ATOM	36234	OH	TYR	D	27	145.487	118.057	41.247	1.00	62.09	DS4
ATOM	36235	C	TYR	D	27	151.704	119.667	45.623	1.00	74.16	DS4
ATOM	36236	O	TYR	D	27	152.087	120.833	45.515	1.00	74.16	DS4
ATOM	36237	N	SER	D	28	152.156	118.841	46.561	1.00	93.45	DS4
ATOM	36238	CA	SER	D	28	153.180	119.260	47.511	1.00	93.45	DS4
ATOM	36239	CB	SER	D	28	153.375	118.208	48.608	1.00	138.96	DS4
ATOM	36240	OG	SER	D	28	154.018	117.047	48.105	1.00	138.96	DS4
ATOM	36241	C	SER	D	28	154.454	119.376	46.693	1.00	93.45	DS4
ATOM	36242	O	SER	D	28	154.649	118.626	45.746	1.00	93.45	DS4
ATOM	36243	N	PRO	D	29	155.336	120.317	47.046	1.00	79.01	DS4
ATOM	36244	CD	PRO	D	29	155.316	121.217	48.210	1.00	77.43	DS4
ATOM	36245	CA	PRO	D	29	156.578	120.468	46.287	1.00	79.01	DS4
ATOM	36246	CB	PRO	D	29	157.341	121.527	47.076	1.00	77.43	DS4
ATOM	36247	CG	PRO	D	29	156.250	122.299	47.768	1.00	77.43	DS4
ATOM	36248	C	PRO	D	29	157.329	119.142	46.246	1.00	79.01	DS4
ATOM	36249	O	PRO	D	29	158.262	118.935	47.020	1.00	79.01	DS4
ATOM	36250	N	LYS	D	30	156.924	118.251	45.341	1.00	134.86	DS4
ATOM	36251	CA	LYS	D	30	157.566	116.948	45.229	1.00	134.86	DS4
ATOM	36252	CB	LYS	D	30	157.177	116.073	46.430	1.00	70.10	DS4
ATOM	36253	CG	LYS	D	30	157.794	116.480	47.761	1.00	70.10	DS4
ATOM	36254	CD	LYS	D	30	157.229	115.670	48.927	1.00	70.10	DS4
ATOM	36255	CE	LYS	D	30	157.859	116.078	50.266	1.00	70.10	DS4
ATOM	36256	NZ	LYS	D	30	157.249	115.392	51.449	1.00	70.10	DS4



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ATOM	36257	C	LYS	D	30	157.334	116.142	43.941	1.00134.86	DS4
ATOM	36258	O	LYS	D	30	158.039	115.161	43.731	1.00134.86	DS4
ATOM	36259	N	CYS	D	31	156.381	116.519	43.081	1.00112.45	DS4
ATOM	36260	CA	CYS	D	31	156.144	115.735	41.851	1.00112.45	DS4
ATOM	36261	CB	CYS	D	31	154.908	116.231	41.081	1.00 25.79	DS4
ATOM	36262	SG	CYS	D	31	154.455	115.295	39.567	1.00 25.79	DS4
ATOM	36263	C	CYS	D	31	157.364	115.793	40.946	1.00112.45	DS4
ATOM	36264	O	CYS	D	31	157.249	115.626	39.729	1.00112.45	DS4
ATOM	36265	N	ALA	D	32	158.522	116.030	41.574	1.00 88.67	DS4
ATOM	36266	CA	ALA	D	32	159.838	116.116	40.934	1.00 88.67	DS4
ATOM	36267	CB	ALA	D	32	160.211	114.781	40.301	1.00101.97	DS4
ATOM	36268	C	ALA	D	32	159.922	117.223	39.905	1.00 88.67	DS4
ATOM	36269	O	ALA	D	32	160.943	117.908	39.802	1.00 88.67	DS4
ATOM	36270	N	MET	D	33	158.849	117.391	39.139	1.00104.27	DS4
ATOM	36271	CA	MET	D	33	158.790	118.434	38.132	1.00104.27	DS4
ATOM	36272	CB	MET	D	33	157.421	118.437	37.455	1.00 73.47	DS4
ATOM	36273	CG	MET	D	33	157.282	117.333	36.430	1.00 73.47	DS4
ATOM	36274	SD	MET	D	33	158.667	117.368	35.264	1.00 73.47	DS4
ATOM	36275	CE	MET	D	33	158.018	118.493	34.015	1.00 73.47	DS4
ATOM	36276	C	MET	D	33	159.045	119.744	38.852	1.00104.27	DS4
ATOM	36277	O	MET	D	33	159.251	120.794	38.232	1.00104.27	DS4
ATOM	36278	N	GLU	D	34	159.010	119.659	40.178	1.00 79.93	DS4
ATOM	36279	CA	GLU	D	34	159.286	120.789	41.033	1.00 79.93	DS4
ATOM	36280	CB	GLU	D	34	158.501	120.669	42.335	1.00 82.99	DS4
ATOM	36281	CG	GLU	D	34	157.943	121.990	42.829	1.00 82.99	DS4
ATOM	36282	CD	GLU	D	34	156.740	122.471	42.017	1.00 82.99	DS4
ATOM	36283	OE1	GLU	D	34	155.639	121.898	42.174	1.00 82.99	DS4
ATOM	36284	OE2	GLU	D	34	156.890	123.423	41.220	1.00 82.99	DS4
ATOM	36285	C	GLU	D	34	160.786	120.622	41.282	1.00 79.93	DS4
ATOM	36286	O	GLU	D	34	161.217	119.660	41.932	1.00 79.93	DS4
ATOM	36287	N	ARG	D	35	161.579	121.532	40.717	1.00135.91	DS4
ATOM	36288	CA	ARG	D	35	163.037	121.502	40.848	1.00135.91	DS4
ATOM	36289	CB	ARG	D	35	163.439	121.810	42.295	1.00175.86	DS4
ATOM	36290	CG	ARG	D	35	163.058	123.213	42.777	1.00175.86	DS4
ATOM	36291	CD	ARG	D	35	163.454	123.401	44.240	1.00175.86	DS4
ATOM	36292	NE	ARG	D	35	163.140	124.732	44.756	1.00175.86	DS4
ATOM	36293	CZ	ARG	D	35	163.395	125.132	46.001	1.00175.86	DS4
ATOM	36294	NH1	ARG	D	35	163.970	124.303	46.863	1.00175.86	DS4
ATOM	36295	NH2	ARG	D	35	163.079	126.362	46.387	1.00175.86	DS4
ATOM	36296	C	ARG	D	35	163.666	120.173	40.394	1.00135.91	DS4
ATOM	36297	O	ARG	D	35	164.268	119.452	41.192	1.00135.91	DS4
ATOM	36298	N	ARG	D	36	163.512	119.878	39.102	1.00 88.54	DS4
ATOM	36299	CA	ARG	D	36	164.040	118.675	38.449	1.00 88.54	DS4
ATOM	36300	CB	ARG	D	36	164.079	117.503	39.429	1.00 73.37	DS4
ATOM	36301	CG	ARG	D	36	165.004	116.389	38.999	1.00 73.37	DS4
ATOM	36302	CD	ARG	D	36	164.887	115.196	39.924	1.00 73.37	DS4
ATOM	36303	NE	ARG	D	36	166.124	114.420	39.957	1.00 73.37	DS4
ATOM	36304	CZ	ARG	D	36	166.233	113.216	40.507	1.00 73.37	DS4
ATOM	36305	NH1	ARG	D	36	165.175	112.647	41.068	1.00 73.37	DS4
ATOM	36306	NH2	ARG	D	36	167.398	112.582	40.499	1.00 73.37	DS4
ATOM	36307	C	ARG	D	36	163.181	118.271	37.242	1.00 88.54	DS4
ATOM	36308	O	ARG	D	36	163.025	117.087	36.955	1.00 88.54	DS4
ATOM	36309	N	PRO	D	37	162.633	119.252	36.506	1.00 86.83	DS4
ATOM	36310	CD	PRO	D	37	162.779	120.702	36.698	1.00 95.19	DS4
ATOM	36311	CA	PRO	D	37	161.784	118.984	35.336	1.00 86.83	DS4
ATOM	36312	CB	PRO	D	37	161.316	120.381	34.916	1.00 95.19	DS4
ATOM	36313	CG	PRO	D	37	161.468	121.201	36.172	1.00 95.19	DS4
ATOM	36314	C	PRO	D	37	162.442	118.245	34.169	1.00 86.83	DS4
ATOM	36315	O	PRO	D	37	161.772	117.908	33.189	1.00 86.83	DS4
ATOM	36316	N	TYR	D	38	163.745	118.005	34.257	1.00 90.84	DS4
ATOM	36317	CA	TYR	D	38	164.434	117.307	33.181	1.00 90.84	DS4
ATOM	36318	CB	TYR	D	38	165.942	117.580	33.235	1.00 62.04	DS4
ATOM	36319	CG	TYR	D	38	166.570	117.312	34.576	1.00 62.04	DS4
ATOM	36320	CD1	TYR	D	38	166.947	116.029	34.945	1.00 62.04	DS4
ATOM	36321	CE1	TYR	D	38	167.484	115.776	36.204	1.00 62.04	DS4
ATOM	36322	CD2	TYR	D	38	166.746	118.343	35.497	1.00 62.04	DS4
ATOM	36323	CE2	TYR	D	38	167.278	118.103	36.756	1.00 62.04	DS4
ATOM	36324	CZ	TYR	D	38	167.645	116.818	37.106	1.00 62.04	DS4
ATOM	36325	OH	TYR	D	38	168.155	116.570	38.361	1.00 62.04	DS4
ATOM	36326	C	TYR	D	38	164.166	115.810	33.241	1.00 90.84	DS4
ATOM	36327	O	TYR	D	38	163.839	115.262	34.300	1.00 90.84	DS4
ATOM	36328	N	PRO	D	39	164.286	115.133	32.089	1.00 64.37	DS4
ATOM	36329	CD	PRO	D	39	164.643	115.729	30.788	1.00 55.93	DS4
ATOM	36330	CA	PRO	D	39	164.066	113.687	31.959	1.00 64.37	DS4
ATOM	36331	CB	PRO	D	39	164.273	113.441	30.469	1.00 55.93	DS4
ATOM	36332	CG	PRO	D	39	165.221	114.557	30.066	1.00 55.93	DS4
ATOM	36333	C	PRO	D	39	164.979	112.828	32.829	1.00 64.37	DS4



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ATOM	36334	O	PRO	D	39	166.071	113.237	33.217	1.00	64.37	DS4
ATOM	36335	N	PRO	D	40	164.537	111.610	33.135	1.00	55.00	DS4
ATOM	36336	CD	PRO	D	40	163.305	110.980	32.624	1.00	58.75	DS4
ATOM	36337	CA	PRO	D	40	165.294	110.677	33.965	1.00	55.00	DS4
ATOM	36338	CB	PRO	D	40	164.236	109.654	34.354	1.00	58.75	DS4
ATOM	36339	CG	PRO	D	40	163.444	109.535	33.092	1.00	58.75	DS4
ATOM	36340	C	PRO	D	40	166.451	110.057	33.189	1.00	55.00	DS4
ATOM	36341	O	PRO	D	40	166.522	110.205	31.975	1.00	55.00	DS4
ATOM	36342	N	GLY	D	41	167.353	109.370	33.887	1.00	65.72	DS4
ATOM	36343	CA	GLY	D	41	168.476	108.737	33.218	1.00	65.72	DS4
ATOM	36344	C	GLY	D	41	169.790	109.498	33.286	1.00	65.72	DS4
ATOM	36345	O	GLY	D	41	169.830	110.695	33.561	1.00	65.72	DS4
ATOM	36346	N	GLN	D	42	170.877	108.783	33.021	1.00	52.97	DS4
ATOM	36347	CA	GLN	D	42	172.223	109.346	33.046	1.00	52.97	DS4
ATOM	36348	CB	GLN	D	42	173.232	108.234	32.711	1.00	91.36	DS4
ATOM	36349	CG	GLN	D	42	174.617	108.695	32.279	1.00	91.36	DS4
ATOM	36350	CD	GLN	D	42	175.581	107.537	32.062	1.00	91.36	DS4
ATOM	36351	OE1	GLN	D	42	176.491	107.622	31.232	1.00	91.36	DS4
ATOM	36352	NE2	GLN	D	42	175.394	106.451	32.816	1.00	91.36	DS4
ATOM	36353	C	GLN	D	42	172.441	110.539	32.123	1.00	52.97	DS4
ATOM	36354	O	GLN	D	42	173.552	111.039	32.026	1.00	52.97	DS4
ATOM	36355	N	HIS	D	43	171.390	111.015	31.466	1.00	74.05	DS4
ATOM	36356	CA	HIS	D	43	171.549	112.132	30.536	1.00	74.05	DS4
ATOM	36357	CB	HIS	D	43	171.421	111.625	29.097	1.00	61.32	DS4
ATOM	36358	CG	HIS	D	43	172.415	110.564	28.741	1.00	61.32	DS4
ATOM	36359	CD2	HIS	D	43	172.280	109.221	28.621	1.00	61.32	DS4
ATOM	36360	ND1	HIS	D	43	173.743	110.841	28.494	1.00	61.32	DS4
ATOM	36361	CE1	HIS	D	43	174.383	109.713	28.239	1.00	61.32	DS4
ATOM	36362	NE2	HIS	D	43	173.519	108.715	28.309	1.00	61.32	DS4
ATOM	36363	C	HIS	D	43	170.593	113.300	30.726	1.00	74.05	DS4
ATOM	36364	O	HIS	D	43	170.867	114.404	30.264	1.00	74.05	DS4
ATOM	36365	N	GLY	D	44	169.474	113.052	31.393	1.00	71.87	DS4
ATOM	36366	CA	GLY	D	44	168.478	114.090	31.611	1.00	71.87	DS4
ATOM	36367	C	GLY	D	44	168.909	115.549	31.518	1.00	71.87	DS4
ATOM	36368	O	GLY	D	44	168.240	116.369	30.873	1.00	71.87	DS4
ATOM	36369	N	GLN	D	45	170.035	115.871	32.149	1.00	72.65	DS4
ATOM	36370	CA	GLN	D	45	170.534	117.237	32.180	1.00	72.65	DS4
ATOM	36371	CB	GLN	D	45	171.262	117.471	33.497	1.00	105.01	DS4
ATOM	36372	CG	GLN	D	45	170.363	117.280	34.696	1.00	105.01	DS4
ATOM	36373	CD	GLN	D	45	171.133	117.251	35.990	1.00	105.01	DS4
ATOM	36374	OE1	GLN	D	45	171.889	118.175	36.289	1.00	105.01	DS4
ATOM	36375	NE2	GLN	D	45	170.948	116.188	36.771	1.00	105.01	DS4
ATOM	36376	C	GLN	D	45	171.409	117.688	31.023	1.00	72.65	DS4
ATOM	36377	O	GLN	D	45	172.140	118.664	31.150	1.00	72.65	DS4
ATOM	36378	N	LYS	D	46	171.350	116.989	29.898	1.00	65.91	DS4
ATOM	36379	CA	LYS	D	46	172.132	117.406	28.741	1.00	65.91	DS4
ATOM	36380	CB	LYS	D	46	172.742	116.198	28.022	1.00	86.32	DS4
ATOM	36381	CG	LYS	D	46	173.882	115.518	28.784	1.00	86.32	DS4
ATOM	36382	CD	LYS	D	46	174.455	114.327	28.007	1.00	86.32	DS4
ATOM	36383	CE	LYS	D	46	175.556	113.619	28.793	1.00	86.32	DS4
ATOM	36384	NZ	LYS	D	46	176.039	112.382	28.117	1.00	86.32	DS4
ATOM	36385	C	LYS	D	46	171.188	118.162	27.810	1.00	65.91	DS4
ATOM	36386	O	LYS	D	46	169.968	118.139	28.005	1.00	65.91	DS4
ATOM	36387	N	ARG	D	47	171.750	118.842	26.815	1.00	90.22	DS4
ATOM	36388	CA	ARG	D	47	170.957	119.610	25.858	1.00	90.22	DS4
ATOM	36389	CB	ARG	D	47	171.878	120.497	25.017	1.00	119.10	DS4
ATOM	36390	CG	ARG	D	47	171.247	121.024	23.739	1.00	119.10	DS4
ATOM	36391	CD	ARG	D	47	172.316	121.460	22.747	1.00	119.10	DS4
ATOM	36392	NE	ARG	D	47	171.827	121.422	21.371	1.00	119.10	DS4
ATOM	36393	CZ	ARG	D	47	172.600	121.536	20.296	1.00	119.10	DS4
ATOM	36394	NH1	ARG	D	47	173.911	121.699	20.428	1.00	119.10	DS4
ATOM	36395	NH2	ARG	D	47	172.060	121.476	19.087	1.00	119.10	DS4
ATOM	36396	C	ARG	D	47	170.167	118.687	24.938	1.00	90.22	DS4
ATOM	36397	O	ARG	D	47	170.683	117.662	24.500	1.00	90.22	DS4
ATOM	36398	N	ALA	D	48	168.917	119.042	24.651	1.00	87.19	DS4
ATOM	36399	CA	ALA	D	48	168.091	118.230	23.759	1.00	87.19	DS4
ATOM	36400	CB	ALA	D	48	166.631	118.317	24.161	1.00	102.55	DS4
ATOM	36401	C	ALA	D	48	168.275	118.752	22.342	1.00	87.19	DS4
ATOM	36402	O	ALA	D	48	168.572	119.929	22.141	1.00	87.19	DS4
ATOM	36403	N	ARG	D	49	168.109	117.881	21.355	1.00	68.26	DS4
ATOM	36404	CA	ARG	D	49	168.273	118.294	19.969	1.00	68.26	DS4
ATOM	36405	CB	ARG	D	49	169.123	117.268	19.226	1.00	144.58	DS4
ATOM	36406	CG	ARG	D	49	170.464	117.012	19.883	1.00	144.58	DS4
ATOM	36407	CD	ARG	D	49	171.309	116.097	19.025	1.00	144.58	DS4
ATOM	36408	NE	ARG	D	49	172.658	115.922	19.556	1.00	144.58	DS4
ATOM	36409	CZ	ARG	D	49	173.646	115.316	18.899	1.00	144.58	DS4
ATOM	36410	NH1	ARG	D	49	173.436	114.827	17.683	1.00	144.58	DS4



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ATOM	36411	NH2	ARG	D	49	174.846	115.200	19.455	1.00144.58	DS4
ATOM	36412	C	ARG	D	49	166.918	118.461	19.289	1.00 68.26	DS4
ATOM	36413	O	ARG	D	49	165.922	117.881	19.722	1.00 68.26	DS4
ATOM	36414	N	ARG	D	50	166.891	119.273	18.235	1.00 75.39	DS4
ATOM	36415	CA	ARG	D	50	165.673	119.540	17.477	1.00 75.39	DS4
ATOM	36416	CB	ARG	D	50	166.038	120.270	16.177	1.00112.64	DS4
ATOM	36417	CG	ARG	D	50	164.857	120.803	15.393	1.00112.64	DS4
ATOM	36418	CD	ARG	D	50	164.369	119.818	14.338	1.00112.64	DS4
ATOM	36419	NE	ARG	D	50	165.214	119.808	13.144	1.00112.64	DS4
ATOM	36420	CZ	ARG	D	50	164.936	119.123	12.037	1.00112.64	DS4
ATOM	36421	NH1	ARG	D	50	163.831	118.388	11.972	1.00112.64	DS4
ATOM	36422	NH2	ARG	D	50	165.757	119.176	10.991	1.00112.64	DS4
ATOM	36423	C	ARG	D	50	164.989	118.205	17.183	1.00 75.39	DS4
ATOM	36424	O	ARG	D	50	165.368	117.494	16.257	1.00 75.39	DS4
ATOM	36425	N	PRO	D	51	163.962	117.846	17.968	1.00 53.80	DS4
ATOM	36426	CD	PRO	D	51	163.324	118.595	19.061	1.00 43.71	DS4
ATOM	36427	CA	PRO	D	51	163.267	116.573	17.748	1.00 53.80	DS4
ATOM	36428	CB	PRO	D	51	162.103	116.636	18.741	1.00 43.71	DS4
ATOM	36429	CG	PRO	D	51	162.652	117.481	19.840	1.00 43.71	DS4
ATOM	36430	C	PRO	D	51	162.784	116.365	16.323	1.00 53.80	DS4
ATOM	36431	O	PRO	D	51	162.617	117.317	15.558	1.00 53.80	DS4
ATOM	36432	N	SER	D	52	162.562	115.107	15.973	1.00 54.09	DS4
ATOM	36433	CA	SER	D	52	162.065	114.775	14.650	1.00 54.09	DS4
ATOM	36434	CB	SER	D	52	162.467	113.350	14.277	1.00 54.68	DS4
ATOM	36435	OG	SER	D	52	161.900	112.421	15.179	1.00 54.68	DS4
ATOM	36436	C	SER	D	52	160.541	114.877	14.678	1.00 54.09	DS4
ATOM	36437	O	SER	D	52	159.919	114.721	15.738	1.00 54.09	DS4
ATOM	36438	N	ASP	D	53	159.939	115.145	13.524	1.00 60.51	DS4
ATOM	36439	CA	ASP	D	53	158.489	115.231	13.459	1.00 60.51	DS4
ATOM	36440	CB	ASP	D	53	158.030	115.271	12.006	1.00 89.18	DS4
ATOM	36441	CG	ASP	D	53	158.628	116.429	11.248	1.00 89.18	DS4
ATOM	36442	OD1	ASP	D	53	159.850	116.650	11.407	1.00 89.18	DS4
ATOM	36443	OD2	ASP	D	53	157.887	117.107	10.493	1.00 89.18	DS4
ATOM	36444	C	ASP	D	53	157.924	113.990	14.154	1.00 60.51	DS4
ATOM	36445	O	ASP	D	53	156.840	114.025	14.742	1.00 60.51	DS4
ATOM	36446	N	TYR	D	54	158.666	112.889	14.092	1.00 46.35	DS4
ATOM	36447	CA	TYR	D	54	158.207	111.676	14.738	1.00 46.35	DS4
ATOM	36448	CB	TYR	D	54	159.140	110.503	14.434	1.00 40.51	DS4
ATOM	36449	CG	TYR	D	54	158.587	109.192	14.941	1.00 40.51	DS4
ATOM	36450	CD1	TYR	D	54	157.378	108.704	14.456	1.00 40.51	DS4
ATOM	36451	CE1	TYR	D	54	156.807	107.534	14.967	1.00 40.51	DS4
ATOM	36452	CD2	TYR	D	54	159.231	108.469	15.957	1.00 40.51	DS4
ATOM	36453	CE2	TYR	D	54	158.671	107.289	16.485	1.00 40.51	DS4
ATOM	36454	CZ	TYR	D	54	157.450	106.829	15.984	1.00 40.51	DS4
ATOM	36455	OH	TYR	D	54	156.835	105.694	16.497	1.00 40.51	DS4
ATOM	36456	C	TYR	D	54	158.182	111.931	16.239	1.00 46.35	DS4
ATOM	36457	O	TYR	D	54	157.133	111.857	16.879	1.00 46.35	DS4
ATOM	36458	N	ALA	D	55	159.355	112.241	16.785	1.00 38.64	DS4
ATOM	36459	CA	ALA	D	55	159.525	112.508	18.209	1.00 38.64	DS4
ATOM	36460	CB	ALA	D	55	160.733	113.384	18.432	1.00 54.98	DS4
ATOM	36461	C	ALA	D	55	158.306	113.193	18.763	1.00 38.64	DS4
ATOM	36462	O	ALA	D	55	157.632	112.680	19.652	1.00 38.64	DS4
ATOM	36463	N	VAL	D	56	158.026	114.365	18.224	1.00 46.24	DS4
ATOM	36464	CA	VAL	D	56	156.883	115.115	18.685	1.00 46.24	DS4
ATOM	36465	CB	VAL	D	56	156.640	116.336	17.804	1.00 40.08	DS4
ATOM	36466	CG1	VAL	D	56	155.487	117.134	18.360	1.00 40.08	DS4
ATOM	36467	CG2	VAL	D	56	157.906	117.177	17.733	1.00 40.08	DS4
ATOM	36468	C	VAL	D	56	155.632	114.244	18.708	1.00 46.24	DS4
ATOM	36469	O	VAL	D	56	155.164	113.866	19.779	1.00 46.24	DS4
ATOM	36470	N	ARG	D	57	155.092	113.919	17.537	1.00 40.73	DS4
ATOM	36471	CA	ARG	D	57	153.894	113.089	17.477	1.00 40.73	DS4
ATOM	36472	CB	ARG	D	57	153.688	112.524	16.071	1.00 62.70	DS4
ATOM	36473	CG	ARG	D	57	153.001	113.464	15.094	1.00 62.70	DS4
ATOM	36474	CD	ARG	D	57	153.883	114.620	14.728	1.00 62.70	DS4
ATOM	36475	NE	ARG	D	57	153.307	115.382	13.634	1.00 62.70	DS4
ATOM	36476	CZ	ARG	D	57	153.745	116.578	13.266	1.00 62.70	DS4
ATOM	36477	NH1	ARG	D	57	154.768	117.141	13.911	1.00 62.70	DS4
ATOM	36478	NH2	ARG	D	57	153.154	117.214	12.263	1.00 62.70	DS4
ATOM	36479	C	ARG	D	57	153.964	111.929	18.461	1.00 40.73	DS4
ATOM	36480	O	ARG	D	57	152.987	111.625	19.144	1.00 40.73	DS4
ATOM	36481	N	LEU	D	58	155.119	111.278	18.533	1.00 43.60	DS4
ATOM	36482	CA	LEU	D	58	155.265	110.158	19.444	1.00 43.60	DS4
ATOM	36483	CB	LEU	D	58	156.621	109.480	19.247	1.00 46.34	DS4
ATOM	36484	CG	LEU	D	58	156.814	108.168	20.021	1.00 46.34	DS4
ATOM	36485	CD1	LEU	D	58	157.060	108.434	21.490	1.00 46.34	DS4
ATOM	36486	CD2	LEU	D	58	155.580	107.301	19.839	1.00 46.34	DS4
ATOM	36487	C	LEU	D	58	155.110	110.638	20.887	1.00 43.60	DS4



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ATOM	36488	O	LEU	D	58	154.207	110.202	21.602	1.00	43.60	DS4
ATOM	36489	N	ARG	D	59	155.985	111.544	21.306	1.00	50.26	DS4
ATOM	36490	CA	ARG	D	59	155.943	112.084	22.659	1.00	50.26	DS4
ATOM	36491	CB	ARG	D	59	157.008	113.170	22.801	1.00	57.87	DS4
ATOM	36492	CG	ARG	D	59	158.425	112.647	22.662	1.00	57.87	DS4
ATOM	36493	CD	ARG	D	59	159.019	112.272	24.021	1.00	57.87	DS4
ATOM	36494	NE	ARG	D	59	158.149	111.388	24.789	1.00	57.87	DS4
ATOM	36495	CZ	ARG	D	59	158.274	110.067	24.844	1.00	57.87	DS4
ATOM	36496	NH1	ARG	D	59	159.249	109.454	24.178	1.00	57.87	DS4
ATOM	36497	NH2	ARG	D	59	157.407	109.357	25.558	1.00	57.87	DS4
ATOM	36498	C	ARG	D	59	154.564	112.646	23.028	1.00	50.26	DS4
ATOM	36499	O	ARG	D	59	154.090	112.472	24.154	1.00	50.26	DS4
ATOM	36500	N	GLU	D	60	153.912	113.314	22.082	1.00	40.75	DS4
ATOM	36501	CA	GLU	D	60	152.609	113.887	22.364	1.00	40.75	DS4
ATOM	36502	CB	GLU	D	60	152.120	114.737	21.196	1.00	67.74	DS4
ATOM	36503	CG	GLU	D	60	150.908	115.577	21.558	1.00	67.74	DS4
ATOM	36504	CD	GLU	D	60	151.223	116.663	22.585	1.00	67.74	DS4
ATOM	36505	OE1	GLU	D	60	152.110	116.443	23.437	1.00	67.74	DS4
ATOM	36506	OE2	GLU	D	60	150.572	117.733	22.550	1.00	67.74	DS4
ATOM	36507	C	GLU	D	60	151.592	112.798	22.676	1.00	40.75	DS4
ATOM	36508	O	GLU	D	60	150.809	112.929	23.611	1.00	40.75	DS4
ATOM	36509	N	LYS	D	61	151.601	111.717	21.905	1.00	41.02	DS4
ATOM	36510	CA	LYS	D	61	150.665	110.623	22.156	1.00	41.02	DS4
ATOM	36511	CB	LYS	D	61	150.755	109.566	21.060	1.00	55.46	DS4
ATOM	36512	CG	LYS	D	61	149.773	108.426	21.261	1.00	55.46	DS4
ATOM	36513	CD	LYS	D	61	150.098	107.259	20.357	1.00	55.46	DS4
ATOM	36514	CE	LYS	D	61	151.413	106.604	20.755	1.00	55.46	DS4
ATOM	36515	NZ	LYS	D	61	151.360	106.045	22.141	1.00	55.46	DS4
ATOM	36516	C	LYS	D	61	150.971	109.967	23.496	1.00	41.02	DS4
ATOM	36517	O	LYS	D	61	150.085	109.812	24.321	1.00	41.02	DS4
ATOM	36518	N	GLN	D	62	152.230	109.579	23.696	1.00	65.97	DS4
ATOM	36519	CA	GLN	D	62	152.670	108.940	24.938	1.00	65.97	DS4
ATOM	36520	CB	GLN	D	62	154.197	108.894	25.013	1.00	70.58	DS4
ATOM	36521	CG	GLN	D	62	154.807	107.934	24.030	1.00	70.58	DS4
ATOM	36522	CD	GLN	D	62	154.430	106.507	24.333	1.00	70.58	DS4
ATOM	36523	OE1	GLN	D	62	154.984	105.894	25.241	1.00	70.58	DS4
ATOM	36524	NE2	GLN	D	62	153.470	105.972	23.588	1.00	70.58	DS4
ATOM	36525	C	GLN	D	62	152.150	109.719	26.121	1.00	65.97	DS4
ATOM	36526	O	GLN	D	62	151.803	109.151	27.158	1.00	65.97	DS4
ATOM	36527	N	LYS	D	63	152.120	111.034	25.964	1.00	58.88	DS4
ATOM	36528	CA	LYS	D	63	151.623	111.898	27.013	1.00	58.88	DS4
ATOM	36529	CB	LYS	D	63	151.825	113.355	26.604	1.00	58.15	DS4
ATOM	36530	CG	LYS	D	63	151.476	114.353	27.677	1.00	58.15	DS4
ATOM	36531	CD	LYS	D	63	151.470	115.752	27.113	1.00	58.15	DS4
ATOM	36532	CE	LYS	D	63	152.830	116.119	26.566	1.00	58.15	DS4
ATOM	36533	NZ	LYS	D	63	152.788	117.478	25.969	1.00	58.15	DS4
ATOM	36534	C	LYS	D	63	150.130	111.568	27.183	1.00	58.88	DS4
ATOM	36535	O	LYS	D	63	149.753	110.781	28.063	1.00	58.88	DS4
ATOM	36536	N	LEU	D	64	149.294	112.148	26.322	1.00	45.22	DS4
ATOM	36537	CA	LEU	D	64	147.853	111.917	26.358	1.00	45.22	DS4
ATOM	36538	CB	LEU	D	64	147.252	112.162	24.965	1.00	37.08	DS4
ATOM	36539	CG	LEU	D	64	145.738	112.053	24.722	1.00	37.08	DS4
ATOM	36540	CD1	LEU	D	64	145.307	110.625	24.769	1.00	37.08	DS4
ATOM	36541	CD2	LEU	D	64	144.980	112.834	25.758	1.00	37.08	DS4
ATOM	36542	C	LEU	D	64	147.518	110.503	26.842	1.00	45.22	DS4
ATOM	36543	O	LEU	D	64	146.616	110.321	27.653	1.00	45.22	DS4
ATOM	36544	N	ARG	D	65	148.247	109.503	26.363	1.00	45.87	DS4
ATOM	36545	CA	ARG	D	65	147.980	108.135	26.780	1.00	45.87	DS4
ATOM	36546	CB	ARG	D	65	148.671	107.140	25.838	1.00	46.00	DS4
ATOM	36547	CG	ARG	D	65	148.855	105.727	26.405	1.00	46.00	DS4
ATOM	36548	CD	ARG	D	65	149.121	104.710	25.291	1.00	46.00	DS4
ATOM	36549	NE	ARG	D	65	150.012	103.610	25.679	1.00	46.00	DS4
ATOM	36550	CZ	ARG	D	65	151.330	103.727	25.833	1.00	46.00	DS4
ATOM	36551	NH1	ARG	D	65	151.921	104.896	25.642	1.00	46.00	DS4
ATOM	36552	NH2	ARG	D	65	152.065	102.669	26.147	1.00	46.00	DS4
ATOM	36553	C	ARG	D	65	148.375	107.862	28.227	1.00	45.87	DS4
ATOM	36554	O	ARG	D	65	147.562	107.361	28.998	1.00	45.87	DS4
ATOM	36555	N	ARG	D	66	149.605	108.187	28.611	1.00	42.73	DS4
ATOM	36556	CA	ARG	D	66	150.026	107.935	29.989	1.00	42.73	DS4
ATOM	36557	CB	ARG	D	66	151.472	108.367	30.188	1.00	65.68	DS4
ATOM	36558	CG	ARG	D	66	152.449	107.337	29.668	1.00	65.68	DS4
ATOM	36559	CD	ARG	D	66	153.804	107.935	29.347	1.00	65.68	DS4
ATOM	36560	NE	ARG	D	66	154.798	106.905	29.047	1.00	65.68	DS4
ATOM	36561	CZ	ARG	D	66	156.038	107.161	28.634	1.00	65.68	DS4
ATOM	36562	NH1	ARG	D	66	156.440	108.418	28.465	1.00	65.68	DS4
ATOM	36563	NH2	ARG	D	66	156.885	106.163	28.402	1.00	65.68	DS4
ATOM	36564	C	ARG	D	66	149.116	108.618	31.000	1.00	42.73	DS4



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ATOM	36565	O	ARG	D	66	148.972	108.160	32.128	1.00	42.73	DS4
ATOM	36566	N	ILE	D	67	148.479	109.704	30.587	1.00	52.55	DS4
ATOM	36567	CA	ILE	D	67	147.580	110.412	31.479	1.00	52.55	DS4
ATOM	36568	CB	ILE	D	67	146.905	111.590	30.777	1.00	46.08	DS4
ATOM	36569	CG2	ILE	D	67	145.635	111.978	31.517	1.00	46.08	DS4
ATOM	36570	CG1	ILE	D	67	147.868	112.768	30.715	1.00	46.08	DS4
ATOM	36571	CD1	ILE	D	67	147.262	113.997	30.101	1.00	46.08	DS4
ATOM	36572	C	ILE	D	67	146.486	109.513	32.024	1.00	52.55	DS4
ATOM	36573	O	ILE	D	67	146.171	109.567	33.214	1.00	52.55	DS4
ATOM	36574	N	TYR	D	68	145.893	108.706	31.150	1.00	42.75	DS4
ATOM	36575	CA	TYR	D	68	144.817	107.805	31.560	1.00	42.75	DS4
ATOM	36576	CB	TYR	D	68	143.732	107.731	30.481	1.00	51.77	DS4
ATOM	36577	CG	TYR	D	68	143.161	109.070	30.086	1.00	51.77	DS4
ATOM	36578	CD1	TYR	D	68	143.960	110.032	29.471	1.00	51.77	DS4
ATOM	36579	CE1	TYR	D	68	143.444	111.273	29.108	1.00	51.77	DS4
ATOM	36580	CD2	TYR	D	68	141.825	109.380	30.331	1.00	51.77	DS4
ATOM	36581	CE2	TYR	D	68	141.298	110.619	29.975	1.00	51.77	DS4
ATOM	36582	CZ	TYR	D	68	142.114	111.560	29.365	1.00	51.77	DS4
ATOM	36583	OH	TYR	D	68	141.611	112.791	29.016	1.00	51.77	DS4
ATOM	36584	C	TYR	D	68	145.331	106.396	31.852	1.00	42.75	DS4
ATOM	36585	O	TYR	D	68	144.558	105.508	32.226	1.00	42.75	DS4
ATOM	36586	N	GLY	D	69	146.634	106.199	31.676	1.00	49.80	DS4
ATOM	36587	CA	GLY	D	69	147.221	104.895	31.928	1.00	49.80	DS4
ATOM	36588	C	GLY	D	69	146.547	103.778	31.160	1.00	49.80	DS4
ATOM	36589	O	GLY	D	69	145.978	102.868	31.742	1.00	49.80	DS4
ATOM	36590	N	ILE	D	70	146.616	103.844	29.841	1.00	69.09	DS4
ATOM	36591	CA	ILE	D	70	146.002	102.827	29.011	1.00	69.09	DS4
ATOM	36592	CB	ILE	D	70	144.858	103.423	28.192	1.00	51.25	DS4
ATOM	36593	CG2	ILE	D	70	144.294	102.396	27.237	1.00	51.25	DS4
ATOM	36594	CG1	ILE	D	70	143.751	103.872	29.124	1.00	51.25	DS4
ATOM	36595	CD1	ILE	D	70	142.593	104.480	28.376	1.00	51.25	DS4
ATOM	36596	C	ILE	D	70	146.985	102.149	28.057	1.00	69.09	DS4
ATOM	36597	O	ILE	D	70	147.750	102.803	27.336	1.00	69.09	DS4
ATOM	36598	N	SER	D	71	146.953	100.823	28.069	1.00	51.60	DS4
ATOM	36599	CA	SER	D	71	147.797	100.023	27.201	1.00	51.60	DS4
ATOM	36600	CB	SER	D	71	147.299	98.588	27.182	1.00	61.42	DS4
ATOM	36601	OG	SER	D	71	145.971	98.549	26.667	1.00	61.42	DS4
ATOM	36602	C	SER	D	71	147.676	100.578	25.794	1.00	51.60	DS4
ATOM	36603	O	SER	D	71	146.578	100.913	25.350	1.00	51.60	DS4
ATOM	36604	N	GLU	D	72	148.799	100.669	25.092	1.00	56.70	DS4
ATOM	36605	CA	GLU	D	72	148.776	101.154	23.724	1.00	56.70	DS4
ATOM	36606	CB	GLU	D	72	150.112	100.893	23.040	1.00	73.76	DS4
ATOM	36607	CG	GLU	D	72	150.108	101.303	21.592	1.00	73.76	DS4
ATOM	36608	CD	GLU	D	72	149.897	102.791	21.417	1.00	73.76	DS4
ATOM	36609	OE1	GLU	D	72	149.525	103.212	20.298	1.00	73.76	DS4
ATOM	36610	OE2	GLU	D	72	150.117	103.536	22.395	1.00	73.76	DS4
ATOM	36611	C	GLU	D	72	147.679	100.390	22.998	1.00	56.70	DS4
ATOM	36612	O	GLU	D	72	146.971	100.949	22.169	1.00	56.70	DS4
ATOM	36613	N	ARG	D	73	147.537	99.108	23.329	1.00	56.38	DS4
ATOM	36614	CA	ARG	D	73	146.519	98.268	22.714	1.00	56.38	DS4
ATOM	36615	CB	ARG	D	73	146.448	96.915	23.403	1.00	101.56	DS4
ATOM	36616	CG	ARG	D	73	145.591	95.933	22.655	1.00	101.56	DS4
ATOM	36617	CD	ARG	D	73	146.189	95.688	21.285	1.00	101.56	DS4
ATOM	36618	NE	ARG	D	73	145.583	94.548	20.608	1.00	101.56	DS4
ATOM	36619	CZ	ARG	D	73	146.139	93.913	19.581	1.00	101.56	DS4
ATOM	36620	NH1	ARG	D	73	147.318	94.309	19.115	1.00	101.56	DS4
ATOM	36621	NH2	ARG	D	73	145.522	92.878	19.026	1.00	101.56	DS4
ATOM	36622	C	ARG	D	73	145.163	98.937	22.819	1.00	56.38	DS4
ATOM	36623	O	ARG	D	73	144.611	99.391	21.822	1.00	56.38	DS4
ATOM	36624	N	GLN	D	74	144.637	99.001	24.041	1.00	36.66	DS4
ATOM	36625	CA	GLN	D	74	143.330	99.607	24.312	1.00	36.66	DS4
ATOM	36626	CB	GLN	D	74	143.081	99.682	25.823	1.00	66.09	DS4
ATOM	36627	CG	GLN	D	74	142.747	98.364	26.504	1.00	66.09	DS4
ATOM	36628	CD	GLN	D	74	141.699	98.544	27.594	1.00	66.09	DS4
ATOM	36629	OE1	GLN	D	74	141.818	99.425	28.457	1.00	66.09	DS4
ATOM	36630	NE2	GLN	D	74	140.666	97.711	27.561	1.00	66.09	DS4
ATOM	36631	C	GLN	D	74	143.201	101.005	23.733	1.00	36.66	DS4
ATOM	36632	O	GLN	D	74	142.200	101.354	23.108	1.00	36.66	DS4
ATOM	36633	N	PHE	D	75	144.231	101.798	23.978	1.00	48.85	DS4
ATOM	36634	CA	PHE	D	75	144.313	103.173	23.520	1.00	48.85	DS4
ATOM	36635	CB	PHE	D	75	145.697	103.713	23.870	1.00	49.51	DS4
ATOM	36636	CG	PHE	D	75	145.844	105.173	23.660	1.00	49.51	DS4
ATOM	36637	CD1	PHE	D	75	145.548	106.061	24.679	1.00	49.51	DS4
ATOM	36638	CD2	PHE	D	75	146.278	105.666	22.443	1.00	49.51	DS4
ATOM	36639	CE1	PHE	D	75	145.685	107.421	24.490	1.00	49.51	DS4
ATOM	36640	CE2	PHE	D	75	146.418	107.025	22.244	1.00	49.51	DS4
ATOM	36641	CZ	PHE	D	75	146.121	107.904	23.271	1.00	49.51	DS4



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ATOM	36642	C	PHE	D	75	144.081	103.288	22.008	1.00	48.85	DS4
ATOM	36643	O	PHE	D	75	143.286	104.110	21.541	1.00	48.85	DS4
ATOM	36644	N	ARG	D	76	144.785	102.453	21.249	1.00	38.99	DS4
ATOM	36645	CA	ARG	D	76	144.684	102.459	19.799	1.00	38.99	DS4
ATOM	36646	CB	ARG	D	76	145.646	101.432	19.210	1.00	85.26	DS4
ATOM	36647	CG	ARG	D	76	145.704	101.449	17.706	1.00	85.26	DS4
ATOM	36648	CD	ARG	D	76	146.122	102.811	17.203	1.00	85.26	DS4
ATOM	36649	NE	ARG	D	76	146.169	102.850	15.748	1.00	85.26	DS4
ATOM	36650	CZ	ARG	D	76	146.995	102.116	15.011	1.00	85.26	DS4
ATOM	36651	NH1	ARG	D	76	147.850	101.279	15.594	1.00	85.26	DS4
ATOM	36652	NH2	ARG	D	76	146.961	102.219	13.690	1.00	85.26	DS4
ATOM	36653	C	ARG	D	76	143.268	102.166	19.339	1.00	38.99	DS4
ATOM	36654	O	ARG	D	76	142.674	102.943	18.595	1.00	38.99	DS4
ATOM	36655	N	ASN	D	77	142.724	101.046	19.794	1.00	54.01	DS4
ATOM	36656	CA	ASN	D	77	141.369	100.653	19.421	1.00	54.01	DS4
ATOM	36657	CB	ASN	D	77	141.011	99.344	20.118	1.00	74.17	DS4
ATOM	36658	CG	ASN	D	77	142.040	98.267	19.860	1.00	74.17	DS4
ATOM	36659	OD1	ASN	D	77	142.374	97.983	18.708	1.00	74.17	DS4
ATOM	36660	ND2	ASN	D	77	142.557	97.666	20.928	1.00	74.17	DS4
ATOM	36661	C	ASN	D	77	140.353	101.741	19.765	1.00	54.01	DS4
ATOM	36662	O	ASN	D	77	139.345	101.919	19.075	1.00	54.01	DS4
ATOM	36663	N	LEU	D	78	140.623	102.472	20.837	1.00	52.77	DS4
ATOM	36664	CA	LEU	D	78	139.732	103.539	21.228	1.00	52.77	DS4
ATOM	36665	CB	LEU	D	78	140.204	104.177	22.516	1.00	23.09	DS4
ATOM	36666	CG	LEU	D	78	139.121	104.172	23.581	1.00	23.09	DS4
ATOM	36667	CD1	LEU	D	78	139.543	105.099	24.732	1.00	23.09	DS4
ATOM	36668	CD2	LEU	D	78	137.798	104.624	22.966	1.00	23.09	DS4
ATOM	36669	C	LEU	D	78	139.787	104.564	20.122	1.00	52.77	DS4
ATOM	36670	O	LEU	D	78	138.765	104.975	19.580	1.00	52.77	DS4
ATOM	36671	N	PHE	D	79	141.003	104.968	19.785	1.00	34.08	DS4
ATOM	36672	CA	PHE	D	79	141.205	105.946	18.728	1.00	34.08	DS4
ATOM	36673	CB	PHE	D	79	142.693	106.212	18.541	1.00	41.16	DS4
ATOM	36674	CG	PHE	D	79	142.995	107.114	17.394	1.00	41.16	DS4
ATOM	36675	CD1	PHE	D	79	143.076	108.480	17.578	1.00	41.16	DS4
ATOM	36676	CD2	PHE	D	79	143.163	106.596	16.119	1.00	41.16	DS4
ATOM	36677	CE1	PHE	D	79	143.321	109.320	16.505	1.00	41.16	DS4
ATOM	36678	CE2	PHE	D	79	143.405	107.420	15.042	1.00	41.16	DS4
ATOM	36679	CZ	PHE	D	79	143.485	108.783	15.230	1.00	41.16	DS4
ATOM	36680	C	PHE	D	79	140.617	105.470	17.400	1.00	34.08	DS4
ATOM	36681	O	PHE	D	79	139.861	106.179	16.740	1.00	34.08	DS4
ATOM	36682	N	GLU	D	80	140.974	104.264	16.996	1.00	45.43	DS4
ATOM	36683	CA	GLU	D	80	140.453	103.775	15.748	1.00	45.43	DS4
ATOM	36684	CB	GLU	D	80	140.990	102.378	15.457	1.00	101.17	DS4
ATOM	36685	CG	GLU	D	80	142.458	102.400	15.028	1.00	101.17	DS4
ATOM	36686	CD	GLU	D	80	142.682	103.119	13.692	1.00	101.17	DS4
ATOM	36687	OE1	GLU	D	80	143.858	103.372	13.337	1.00	101.17	DS4
ATOM	36688	OE2	GLU	D	80	141.685	103.419	12.994	1.00	101.17	DS4
ATOM	36689	C	GLU	D	80	138.939	103.792	15.775	1.00	45.43	DS4
ATOM	36690	O	GLU	D	80	138.300	103.737	14.725	1.00	45.43	DS4
ATOM	36691	N	GLU	D	81	138.359	103.893	16.968	1.00	51.01	DS4
ATOM	36692	CA	GLU	D	81	136.902	103.936	17.086	1.00	51.01	DS4
ATOM	36693	CB	GLU	D	81	136.455	103.475	18.471	1.00	78.58	DS4
ATOM	36694	CG	GLU	D	81	134.946	103.526	18.651	1.00	78.58	DS4
ATOM	36695	CD	GLU	D	81	134.493	103.067	20.025	1.00	78.58	DS4
ATOM	36696	OE1	GLU	D	81	133.265	103.054	20.270	1.00	78.58	DS4
ATOM	36697	OE2	GLU	D	81	135.361	102.720	20.857	1.00	78.58	DS4
ATOM	36698	C	GLU	D	81	136.389	105.355	16.837	1.00	51.01	DS4
ATOM	36699	O	GLU	D	81	135.442	105.574	16.085	1.00	51.01	DS4
ATOM	36700	N	ALA	D	82	137.026	106.322	17.476	1.00	45.17	DS4
ATOM	36701	CA	ALA	D	82	136.629	107.704	17.321	1.00	45.17	DS4
ATOM	36702	CB	ALA	D	82	137.443	108.567	18.254	1.00	36.86	DS4
ATOM	36703	C	ALA	D	82	136.825	108.158	15.882	1.00	45.17	DS4
ATOM	36704	O	ALA	D	82	136.169	109.087	15.410	1.00	45.17	DS4
ATOM	36705	N	SER	D	83	137.734	107.503	15.176	1.00	59.49	DS4
ATOM	36706	CA	SER	D	83	137.993	107.885	13.801	1.00	59.49	DS4
ATOM	36707	CB	SER	D	83	139.237	107.168	13.282	1.00	76.28	DS4
ATOM	36708	OG	SER	D	83	140.365	107.454	14.094	1.00	76.28	DS4
ATOM	36709	C	SER	D	83	136.796	107.548	12.931	1.00	59.49	DS4
ATOM	36710	O	SER	D	83	136.448	108.298	12.019	1.00	59.49	DS4
ATOM	36711	N	LYS	D	84	136.158	106.422	13.226	1.00	45.48	DS4
ATOM	36712	CA	LYS	D	84	135.008	105.983	12.451	1.00	45.48	DS4
ATOM	36713	CB	LYS	D	84	134.815	104.477	12.632	1.00	95.54	DS4
ATOM	36714	CG	LYS	D	84	136.075	103.697	12.291	1.00	95.54	DS4
ATOM	36715	CD	LYS	D	84	135.896	102.192	12.384	1.00	95.54	DS4
ATOM	36716	CE	LYS	D	84	137.190	101.474	11.993	1.00	95.54	DS4
ATOM	36717	NZ	LYS	D	84	137.073	99.991	12.118	1.00	95.54	DS4
ATOM	36718	C	LYS	D	84	133.750	106.741	12.841	1.00	45.48	DS4



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ATOM	36719	O	LYS	D	84	132.915	107.057	11.987	1.00	45.48	DS4
ATOM	36720	N	LYS	D	85	133.619	107.049	14.131	1.00	67.93	DS4
ATOM	36721	CA	LYS	D	85	132.447	107.773	14.607	1.00	67.93	DS4
ATOM	36722	CB	LYS	D	85	132.568	108.163	16.085	1.00	66.36	DS4
ATOM	36723	CG	LYS	D	85	132.764	107.007	17.033	1.00	66.36	DS4
ATOM	36724	CD	LYS	D	85	131.949	107.178	18.303	1.00	66.36	DS4
ATOM	36725	CE	LYS	D	85	130.473	106.962	18.028	1.00	66.36	DS4
ATOM	36726	NZ	LYS	D	85	129.704	106.699	19.279	1.00	66.36	DS4
ATOM	36727	C	LYS	D	85	132.300	109.036	13.801	1.00	67.93	DS4
ATOM	36728	O	LYS	D	85	133.276	109.579	13.285	1.00	67.93	DS4
ATOM	36729	N	LYS	D	86	131.061	109.492	13.700	1.00	79.10	DS4
ATOM	36730	CA	LYS	D	86	130.731	110.709	12.979	1.00	79.10	DS4
ATOM	36731	CB	LYS	D	86	129.251	110.668	12.587	1.00	79.91	DS4
ATOM	36732	CG	LYS	D	86	128.799	111.711	11.599	1.00	79.91	DS4
ATOM	36733	CD	LYS	D	86	127.310	111.554	11.345	1.00	79.91	DS4
ATOM	36734	CE	LYS	D	86	126.754	112.681	10.487	1.00	79.91	DS4
ATOM	36735	NZ	LYS	D	86	125.260	112.655	10.410	1.00	79.91	DS4
ATOM	36736	C	LYS	D	86	130.999	111.850	13.957	1.00	79.10	DS4
ATOM	36737	O	LYS	D	86	130.349	111.944	14.996	1.00	79.10	DS4
ATOM	36738	N	GLY	D	87	131.969	112.702	13.639	1.00	85.81	DS4
ATOM	36739	CA	GLY	D	87	132.280	113.814	14.520	1.00	85.81	DS4
ATOM	36740	C	GLY	D	87	133.765	114.074	14.617	1.00	85.81	DS4
ATOM	36741	O	GLY	D	87	134.563	113.140	14.601	1.00	85.81	DS4
ATOM	36742	N	VAL	D	88	134.140	115.343	14.717	1.00	54.46	DS4
ATOM	36743	CA	VAL	D	88	135.546	115.705	14.813	1.00	54.46	DS4
ATOM	36744	CB	VAL	D	88	135.724	117.107	15.416	1.00	47.25	DS4
ATOM	36745	CG1	VAL	D	88	137.207	117.424	15.586	1.00	47.25	DS4
ATOM	36746	CG2	VAL	D	88	135.073	118.127	14.515	1.00	47.25	DS4
ATOM	36747	C	VAL	D	88	136.319	114.704	15.659	1.00	54.46	DS4
ATOM	36748	O	VAL	D	88	136.208	114.682	16.888	1.00	54.46	DS4
ATOM	36749	N	THR	D	89	137.104	113.873	14.985	1.00	63.86	DS4
ATOM	36750	CA	THR	D	89	137.900	112.860	15.655	1.00	63.86	DS4
ATOM	36751	CB	THR	D	89	138.950	112.299	14.694	1.00	41.32	DS4
ATOM	36752	OG1	THR	D	89	138.290	111.533	13.682	1.00	41.32	DS4
ATOM	36753	CG2	THR	D	89	139.939	111.417	15.439	1.00	41.32	DS4
ATOM	36754	C	THR	D	89	138.595	113.339	16.938	1.00	63.86	DS4
ATOM	36755	O	THR	D	89	138.395	112.762	18.010	1.00	63.86	DS4
ATOM	36756	N	GLY	D	90	139.406	114.386	16.825	1.00	76.78	DS4
ATOM	36757	CA	GLY	D	90	140.112	114.892	17.988	1.00	76.78	DS4
ATOM	36758	C	GLY	D	90	139.286	114.878	19.265	1.00	76.78	DS4
ATOM	36759	O	GLY	D	90	139.694	114.329	20.299	1.00	76.78	DS4
ATOM	36760	N	SER	D	91	138.113	115.494	19.198	1.00	62.68	DS4
ATOM	36761	CA	SER	D	91	137.243	115.542	20.354	1.00	62.68	DS4
ATOM	36762	CB	SER	D	91	136.035	116.431	20.069	1.00	95.80	DS4
ATOM	36763	OG	SER	D	91	136.440	117.763	19.800	1.00	95.80	DS4
ATOM	36764	C	SER	D	91	136.789	114.135	20.702	1.00	62.68	DS4
ATOM	36765	O	SER	D	91	137.257	113.560	21.689	1.00	62.68	DS4
ATOM	36766	N	VAL	D	92	135.899	113.583	19.876	1.00	41.45	DS4
ATOM	36767	CA	VAL	D	92	135.353	112.241	20.087	1.00	41.45	DS4
ATOM	36768	CB	VAL	D	92	135.005	111.535	18.757	1.00	27.77	DS4
ATOM	36769	CG1	VAL	D	92	134.393	110.178	19.041	1.00	27.77	DS4
ATOM	36770	CG2	VAL	D	92	134.019	112.359	17.964	1.00	27.77	DS4
ATOM	36771	C	VAL	D	92	136.291	111.326	20.859	1.00	41.45	DS4
ATOM	36772	O	VAL	D	92	135.843	110.550	21.709	1.00	41.45	DS4
ATOM	36773	N	PHE	D	93	137.584	111.412	20.554	1.00	57.21	DS4
ATOM	36774	CA	PHE	D	93	138.578	110.592	21.233	1.00	57.21	DS4
ATOM	36775	CB	PHE	D	93	139.972	110.865	20.670	1.00	56.00	DS4
ATOM	36776	CG	PHE	D	93	140.996	109.831	21.056	1.00	56.00	DS4
ATOM	36777	CD1	PHE	D	93	142.357	110.107	20.955	1.00	56.00	DS4
ATOM	36778	CD2	PHE	D	93	140.604	108.566	21.484	1.00	56.00	DS4
ATOM	36779	CE1	PHE	D	93	143.316	109.138	21.274	1.00	56.00	DS4
ATOM	36780	CE2	PHE	D	93	141.550	107.589	21.805	1.00	56.00	DS4
ATOM	36781	CZ	PHE	D	93	142.912	107.876	21.699	1.00	56.00	DS4
ATOM	36782	C	PHE	D	93	138.566	110.913	22.728	1.00	57.21	DS4
ATOM	36783	O	PHE	D	93	138.160	110.093	23.559	1.00	57.21	DS4
ATOM	36784	N	LEU	D	94	139.014	112.113	23.072	1.00	46.56	DS4
ATOM	36785	CA	LEU	D	94	139.027	112.509	24.463	1.00	46.56	DS4
ATOM	36786	CB	LEU	D	94	139.350	113.996	24.571	1.00	30.96	DS4
ATOM	36787	CG	LEU	D	94	140.742	114.343	24.041	1.00	30.96	DS4
ATOM	36788	CD1	LEU	D	94	140.955	115.855	24.003	1.00	30.96	DS4
ATOM	36789	CD2	LEU	D	94	141.772	113.664	24.934	1.00	30.96	DS4
ATOM	36790	C	LEU	D	94	137.660	112.204	25.068	1.00	46.56	DS4
ATOM	36791	O	LEU	D	94	137.562	111.776	26.214	1.00	46.56	DS4
ATOM	36792	N	GLY	D	95	136.602	112.404	24.292	1.00	61.53	DS4
ATOM	36793	CA	GLY	D	95	135.272	112.126	24.807	1.00	61.53	DS4
ATOM	36794	C	GLY	D	95	135.147	110.701	25.325	1.00	61.53	DS4
ATOM	36795	O	GLY	D	95	134.547	110.441	26.374	1.00	61.53	DS4



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ATOM	36796	N	LEU	D	96	135.733	109.770	24.584	1.00	51.67	DS4
ATOM	36797	CA	LEU	D	96	135.688	108.369	24.954	1.00	51.67	DS4
ATOM	36798	CB	LEU	D	96	135.960	107.511	23.725	1.00	33.50	DS4
ATOM	36799	CG	LEU	D	96	134.678	107.322	22.914	1.00	33.50	DS4
ATOM	36800	CD1	LEU	D	96	133.899	108.643	22.765	1.00	33.50	DS4
ATOM	36801	CD2	LEU	D	96	135.059	106.758	21.573	1.00	33.50	DS4
ATOM	36802	C	LEU	D	96	136.666	108.052	26.063	1.00	51.67	DS4
ATOM	36803	O	LEU	D	96	136.361	107.272	26.961	1.00	51.67	DS4
ATOM	36804	N	LEU	D	97	137.844	108.653	26.007	1.00	47.26	DS4
ATOM	36805	CA	LEU	D	97	138.819	108.416	27.054	1.00	47.26	DS4
ATOM	36806	CB	LEU	D	97	140.097	109.228	26.810	1.00	51.87	DS4
ATOM	36807	CG	LEU	D	97	141.081	108.753	25.736	1.00	51.87	DS4
ATOM	36808	CD1	LEU	D	97	142.160	109.803	25.516	1.00	51.87	DS4
ATOM	36809	CD2	LEU	D	97	141.700	107.442	26.172	1.00	51.87	DS4
ATOM	36810	C	LEU	D	97	138.196	108.823	28.391	1.00	47.26	DS4
ATOM	36811	O	LEU	D	97	138.383	108.139	29.395	1.00	47.26	DS4
ATOM	36812	N	GLU	D	98	137.433	109.917	28.398	1.00	63.13	DS4
ATOM	36813	CA	GLU	D	98	136.807	110.408	29.628	1.00	63.13	DS4
ATOM	36814	CB	GLU	D	98	136.518	111.906	29.512	1.00	63.70	DS4
ATOM	36815	CG	GLU	D	98	136.970	112.722	30.722	1.00	63.70	DS4
ATOM	36816	CD	GLU	D	98	138.479	112.959	30.744	1.00	63.70	DS4
ATOM	36817	OE1	GLU	D	98	139.013	113.389	29.705	1.00	63.70	DS4
ATOM	36818	OE2	GLU	D	98	139.138	112.729	31.787	1.00	63.70	DS4
ATOM	36819	C	GLU	D	98	135.529	109.670	30.048	1.00	63.13	DS4
ATOM	36820	O	GLU	D	98	135.058	109.838	31.175	1.00	63.13	DS4
ATOM	36821	N	SER	D	99	134.963	108.869	29.148	1.00	39.88	DS4
ATOM	36822	CA	SER	D	99	133.760	108.101	29.468	1.00	39.88	DS4
ATOM	36823	CB	SER	D	99	132.965	107.782	28.199	1.00	49.31	DS4
ATOM	36824	OG	SER	D	99	132.262	108.908	27.713	1.00	49.31	DS4
ATOM	36825	C	SER	D	99	134.116	106.783	30.185	1.00	39.88	DS4
ATOM	36826	O	SER	D	99	133.245	105.931	30.450	1.00	39.88	DS4
ATOM	36827	N	ARG	D	100	135.395	106.601	30.489	1.00	42.72	DS4
ATOM	36828	CA	ARG	D	100	135.794	105.392	31.188	1.00	42.72	DS4
ATOM	36829	CB	ARG	D	100	137.309	105.186	31.099	1.00	52.71	DS4
ATOM	36830	CG	ARG	D	100	137.827	104.787	29.743	1.00	52.71	DS4
ATOM	36831	CD	ARG	D	100	139.338	104.836	29.752	1.00	52.71	DS4
ATOM	36832	NE	ARG	D	100	139.954	103.839	30.629	1.00	52.71	DS4
ATOM	36833	CZ	ARG	D	100	140.121	102.561	30.300	1.00	52.71	DS4
ATOM	36834	NH1	ARG	D	100	139.712	102.123	29.113	1.00	52.71	DS4
ATOM	36835	NH2	ARG	D	100	140.719	101.724	31.142	1.00	52.71	DS4
ATOM	36836	C	ARG	D	100	135.379	105.482	32.660	1.00	42.72	DS4
ATOM	36837	O	ARG	D	100	135.649	106.478	33.343	1.00	42.72	DS4
ATOM	36838	N	LEU	D	101	134.715	104.436	33.135	1.00	43.45	DS4
ATOM	36839	CA	LEU	D	101	134.285	104.383	34.518	1.00	43.45	DS4
ATOM	36840	CB	LEU	D	101	133.753	102.997	34.861	1.00	47.94	DS4
ATOM	36841	CG	LEU	D	101	133.454	102.801	36.342	1.00	47.94	DS4
ATOM	36842	CD1	LEU	D	101	132.225	103.603	36.687	1.00	47.94	DS4
ATOM	36843	CD2	LEU	D	101	133.213	101.344	36.642	1.00	47.94	DS4
ATOM	36844	C	LEU	D	101	135.456	104.685	35.432	1.00	43.45	DS4
ATOM	36845	O	LEU	D	101	135.362	105.549	36.299	1.00	43.45	DS4
ATOM	36846	N	ASP	D	102	136.563	103.973	35.244	1.00	56.26	DS4
ATOM	36847	CA	ASP	D	102	137.725	104.198	36.095	1.00	56.26	DS4
ATOM	36848	CB	ASP	D	102	138.932	103.315	35.664	1.00	80.11	DS4
ATOM	36849	CG	ASP	D	102	139.621	103.782	34.373	1.00	80.11	DS4
ATOM	36850	OD1	ASP	D	102	139.010	104.501	33.553	1.00	80.11	DS4
ATOM	36851	OD2	ASP	D	102	140.795	103.395	34.172	1.00	80.11	DS4
ATOM	36852	C	ASP	D	102	138.071	105.680	36.113	1.00	56.26	DS4
ATOM	36853	O	ASP	D	102	138.309	106.248	37.177	1.00	56.26	DS4
ATOM	36854	N	ASN	D	103	138.053	106.316	34.944	1.00	58.87	DS4
ATOM	36855	CA	ASN	D	103	138.356	107.735	34.864	1.00	58.87	DS4
ATOM	36856	CB	ASN	D	103	138.359	108.199	33.411	1.00	47.09	DS4
ATOM	36857	CG	ASN	D	103	138.688	109.685	33.270	1.00	47.09	DS4
ATOM	36858	OD1	ASN	D	103	139.834	110.123	33.494	1.00	47.09	DS4
ATOM	36859	ND2	ASN	D	103	137.675	110.474	32.898	1.00	47.09	DS4
ATOM	36860	C	ASN	D	103	137.311	108.520	35.653	1.00	58.87	DS4
ATOM	36861	O	ASN	D	103	137.651	109.301	36.539	1.00	58.87	DS4
ATOM	36862	N	VAL	D	104	136.038	108.304	35.338	1.00	43.42	DS4
ATOM	36863	CA	VAL	D	104	134.964	109.004	36.030	1.00	43.42	DS4
ATOM	36864	CB	VAL	D	104	133.606	108.484	35.603	1.00	27.97	DS4
ATOM	36865	CG1	VAL	D	104	132.515	109.328	36.233	1.00	27.97	DS4
ATOM	36866	CG2	VAL	D	104	133.499	108.542	34.097	1.00	27.97	DS4
ATOM	36867	C	VAL	D	104	135.071	108.890	37.543	1.00	43.42	DS4
ATOM	36868	O	VAL	D	104	135.017	109.894	38.252	1.00	43.42	DS4
ATOM	36869	N	VAL	D	105	135.209	107.674	38.050	1.00	44.50	DS4
ATOM	36870	CA	VAL	D	105	135.346	107.502	39.487	1.00	44.50	DS4
ATOM	36871	CB	VAL	D	105	135.660	106.028	39.843	1.00	52.69	DS4
ATOM	36872	CG1	VAL	D	105	136.391	105.926	41.183	1.00	52.69	DS4



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ATOM	36873	CG2	VAL	D	105	134.355	105.249	39.918	1.00	52.69	DS4
ATOM	36874	C	VAL	D	105	136.457	108.428	39.990	1.00	44.50	DS4
ATOM	36875	O	VAL	D	105	136.453	108.850	41.145	1.00	44.50	DS4
ATOM	36876	N	TYR	D	106	137.403	108.754	39.120	1.00	62.52	DS4
ATOM	36877	CA	TYR	D	106	138.482	109.653	39.508	1.00	62.52	DS4
ATOM	36878	CB	TYR	D	106	139.693	109.487	38.604	1.00	55.94	DS4
ATOM	36879	CG	TYR	D	106	140.597	110.705	38.592	1.00	55.94	DS4
ATOM	36880	CD1	TYR	D	106	141.344	111.055	39.717	1.00	55.94	DS4
ATOM	36881	CE1	TYR	D	106	142.195	112.165	39.699	1.00	55.94	DS4
ATOM	36882	CD2	TYR	D	106	140.714	111.499	37.443	1.00	55.94	DS4
ATOM	36883	CE2	TYR	D	106	141.559	112.609	37.411	1.00	55.94	DS4
ATOM	36884	CZ	TYR	D	106	142.301	112.939	38.541	1.00	55.94	DS4
ATOM	36885	OH	TYR	D	106	143.155	114.026	38.514	1.00	55.94	DS4
ATOM	36886	C	TYR	D	106	138.027	111.093	39.413	1.00	62.52	DS4
ATOM	36887	O	TYR	D	106	138.249	111.878	40.327	1.00	62.52	DS4
ATOM	36888	N	ARG	D	107	137.414	111.442	38.288	1.00	71.16	DS4
ATOM	36889	CA	ARG	D	107	136.936	112.801	38.080	1.00	71.16	DS4
ATOM	36890	CB	ARG	D	107	136.414	112.983	36.653	1.00	63.49	DS4
ATOM	36891	CG	ARG	D	107	137.494	113.222	35.618	1.00	63.49	DS4
ATOM	36892	CD	ARG	D	107	136.946	114.031	34.444	1.00	63.49	DS4
ATOM	36893	NE	ARG	D	107	137.978	114.358	33.455	1.00	63.49	DS4
ATOM	36894	CZ	ARG	D	107	139.082	115.064	33.706	1.00	63.49	DS4
ATOM	36895	NH1	ARG	D	107	139.314	115.535	34.927	1.00	63.49	DS4
ATOM	36896	NH2	ARG	D	107	139.964	115.284	32.736	1.00	63.49	DS4
ATOM	36897	C	ARG	D	107	135.839	113.178	39.059	1.00	71.16	DS4
ATOM	36898	O	ARG	D	107	135.375	114.316	39.058	1.00	71.16	DS4
ATOM	36899	N	LEU	D	108	135.419	112.229	39.889	1.00	66.10	DS4
ATOM	36900	CA	LEU	D	108	134.376	112.508	40.864	1.00	66.10	DS4
ATOM	36901	CB	LEU	D	108	133.304	111.440	40.801	1.00	19.85	DS4
ATOM	36902	CG	LEU	D	108	132.382	111.630	39.610	1.00	19.85	DS4
ATOM	36903	CD1	LEU	D	108	131.285	110.563	39.660	1.00	19.85	DS4
ATOM	36904	CD2	LEU	D	108	131.784	113.026	39.647	1.00	19.85	DS4
ATOM	36905	C	LEU	D	108	134.868	112.648	42.295	1.00	66.10	DS4
ATOM	36906	O	LEU	D	108	134.069	112.819	43.214	1.00	66.10	DS4
ATOM	36907	N	GLY	D	109	136.180	112.576	42.483	1.00	61.91	DS4
ATOM	36908	CA	GLY	D	109	136.734	112.714	43.812	1.00	61.91	DS4
ATOM	36909	C	GLY	D	109	136.665	111.475	44.683	1.00	61.91	DS4
ATOM	36910	O	GLY	D	109	137.180	111.489	45.799	1.00	61.91	DS4
ATOM	36911	N	PHE	D	110	136.028	110.409	44.209	1.00	68.69	DS4
ATOM	36912	CA	PHE	D	110	135.958	109.183	45.002	1.00	68.69	DS4
ATOM	36913	CB	PHE	D	110	135.175	108.100	44.267	1.00	41.01	DS4
ATOM	36914	CG	PHE	D	110	133.737	108.441	44.007	1.00	41.01	DS4
ATOM	36915	CD1	PHE	D	110	133.293	109.751	44.036	1.00	41.01	DS4
ATOM	36916	CD2	PHE	D	110	132.835	107.439	43.659	1.00	41.01	DS4
ATOM	36917	CE1	PHE	D	110	131.968	110.055	43.714	1.00	41.01	DS4
ATOM	36918	CE2	PHE	D	110	131.512	107.730	43.337	1.00	41.01	DS4
ATOM	36919	CZ	PHE	D	110	131.078	109.035	43.362	1.00	41.01	DS4
ATOM	36920	C	PHE	D	110	137.396	108.700	45.213	1.00	68.69	DS4
ATOM	36921	O	PHE	D	110	137.763	108.249	46.304	1.00	68.69	DS4
ATOM	36922	N	ALA	D	111	138.206	108.791	44.158	1.00	37.63	DS4
ATOM	36923	CA	ALA	D	111	139.601	108.385	44.243	1.00	37.63	DS4
ATOM	36924	CB	ALA	D	111	139.899	107.313	43.224	1.00	46.54	DS4
ATOM	36925	C	ALA	D	111	140.539	109.575	44.044	1.00	37.63	DS4
ATOM	36926	O	ALA	D	111	140.232	110.534	43.331	1.00	37.63	DS4
ATOM	36927	N	VAL	D	112	141.685	109.502	44.701	1.00	69.24	DS4
ATOM	36928	CA	VAL	D	112	142.695	110.535	44.624	1.00	69.24	DS4
ATOM	36929	CB	VAL	D	112	143.828	110.251	45.614	1.00	58.33	DS4
ATOM	36930	CG1	VAL	D	112	144.941	111.259	45.432	1.00	58.33	DS4
ATOM	36931	CG2	VAL	D	112	143.292	110.272	47.034	1.00	58.33	DS4
ATOM	36932	C	VAL	D	112	143.294	110.563	43.228	1.00	69.24	DS4
ATOM	36933	O	VAL	D	112	143.262	111.588	42.546	1.00	69.24	DS4
ATOM	36934	N	SER	D	113	143.836	109.419	42.817	1.00	81.31	DS4
ATOM	36935	CA	SER	D	113	144.477	109.264	41.515	1.00	81.31	DS4
ATOM	36936	CB	SER	D	113	145.853	108.624	41.691	1.00	155.72	DS4
ATOM	36937	OG	SER	D	113	145.721	107.279	42.132	1.00	69.45	DS4
ATOM	36938	C	SER	D	113	143.683	108.416	40.519	1.00	81.31	DS4
ATOM	36939	O	SER	D	113	142.704	107.749	40.867	1.00	81.31	DS4
ATOM	36940	N	ARG	D	114	144.136	108.451	39.271	1.00	54.22	DS4
ATOM	36941	CA	ARG	D	114	143.526	107.688	38.198	1.00	54.22	DS4
ATOM	36942	CB	ARG	D	114	144.230	108.011	36.881	1.00	56.41	DS4
ATOM	36943	CG	ARG	D	114	143.811	109.319	36.246	1.00	56.41	DS4
ATOM	36944	CD	ARG	D	114	142.830	109.022	35.130	1.00	56.41	DS4
ATOM	36945	NE	ARG	D	114	142.238	110.215	34.533	1.00	56.41	DS4
ATOM	36946	CZ	ARG	D	114	142.908	111.318	34.219	1.00	56.41	DS4
ATOM	36947	NH1	ARG	D	114	144.221	111.409	34.453	1.00	56.41	DS4
ATOM	36948	NH2	ARG	D	114	142.249	112.325	33.649	1.00	56.41	DS4
ATOM	36949	C	ARG	D	114	143.710	106.220	38.533	1.00	54.22	DS4



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ATOM	36950	O	ARG	D	114	142.783	105.420	38.418	1.00	54.22	DS4
ATOM	36951	N	ARG	D	115	144.921	105.876	38.953	1.00	67.01	DS4
ATOM	36952	CA	ARG	D	115	145.244	104.504	39.317	1.00	67.01	DS4
ATOM	36953	CB	ARG	D	115	146.687	104.421	39.799	1.00	92.54	DS4
ATOM	36954	CG	ARG	D	115	147.695	104.693	38.716	1.00	92.54	DS4
ATOM	36955	CD	ARG	D	115	149.078	104.268	39.155	1.00	92.54	DS4
ATOM	36956	NE	ARG	D	115	149.908	103.927	38.007	1.00	92.54	DS4
ATOM	36957	CZ	ARG	D	115	151.158	103.490	38.090	1.00	92.54	DS4
ATOM	36958	NH1	ARG	D	115	151.734	103.340	39.277	1.00	92.54	DS4
ATOM	36959	NH2	ARG	D	115	151.832	103.201	36.984	1.00	92.54	DS4
ATOM	36960	C	ARG	D	115	144.319	104.004	40.415	1.00	67.01	DS4
ATOM	36961	O	ARG	D	115	143.615	103.001	40.256	1.00	67.01	DS4
ATOM	36962	N	GLN	D	116	144.334	104.718	41.534	1.00	58.96	DS4
ATOM	36963	CA	GLN	D	116	143.507	104.383	42.677	1.00	58.96	DS4
ATOM	36964	CB	GLN	D	116	143.588	105.511	43.685	1.00	55.96	DS4
ATOM	36965	CG	GLN	D	116	142.971	105.202	45.009	1.00	55.96	DS4
ATOM	36966	CD	GLN	D	116	142.898	106.427	45.866	1.00	55.96	DS4
ATOM	36967	OE1	GLN	D	116	142.106	107.326	45.599	1.00	55.96	DS4
ATOM	36968	NE2	GLN	D	116	143.736	106.487	46.893	1.00	55.96	DS4
ATOM	36969	C	GLN	D	116	142.051	104.150	42.268	1.00	58.96	DS4
ATOM	36970	O	GLN	D	116	141.425	103.178	42.687	1.00	58.96	DS4
ATOM	36971	N	ALA	D	117	141.512	105.044	41.448	1.00	46.70	DS4
ATOM	36972	CA	ALA	D	117	140.131	104.900	40.996	1.00	46.70	DS4
ATOM	36973	CB	ALA	D	117	139.773	106.007	40.018	1.00	63.44	DS4
ATOM	36974	C	ALA	D	117	140.003	103.553	40.323	1.00	46.70	DS4
ATOM	36975	O	ALA	D	117	139.045	102.811	40.569	1.00	46.70	DS4
ATOM	36976	N	ARG	D	118	140.981	103.247	39.473	1.00	66.13	DS4
ATOM	36977	CA	ARG	D	118	141.016	101.980	38.755	1.00	66.13	DS4
ATOM	36978	CB	ARG	D	118	142.340	101.824	38.004	1.00	72.38	DS4
ATOM	36979	CG	ARG	D	118	142.417	100.581	37.124	1.00	72.38	DS4
ATOM	36980	CD	ARG	D	118	143.832	100.359	36.596	1.00	72.38	DS4
ATOM	36981	NE	ARG	D	118	143.860	99.469	35.438	1.00	72.38	DS4
ATOM	36982	CZ	ARG	D	118	143.178	99.694	34.318	1.00	72.38	DS4
ATOM	36983	NH1	ARG	D	118	143.253	98.841	33.303	1.00	72.38	DS4
ATOM	36984	NH2	ARG	D	118	142.409	100.775	34.221	1.00	72.38	DS4
ATOM	36985	C	ARG	D	118	140.871	100.849	39.760	1.00	66.13	DS4
ATOM	36986	O	ARG	D	118	139.983	100.005	39.635	1.00	66.13	DS4
ATOM	36987	N	GLN	D	119	141.743	100.842	40.762	1.00	46.40	DS4
ATOM	36988	CA	GLN	D	119	141.691	99.814	41.788	1.00	46.40	DS4
ATOM	36989	CB	GLN	D	119	142.728	100.070	42.874	1.00	54.16	DS4
ATOM	36990	CG	GLN	D	119	142.667	99.035	43.968	1.00	54.16	DS4
ATOM	36991	CD	GLN	D	119	143.941	98.948	44.771	1.00	54.16	DS4
ATOM	36992	OE1	GLN	D	119	144.176	99.744	45.676	1.00	54.16	DS4
ATOM	36993	NE2	GLN	D	119	144.784	97.979	44.432	1.00	54.16	DS4
ATOM	36994	C	GLN	D	119	140.317	99.734	42.441	1.00	46.40	DS4
ATOM	36995	O	GLN	D	119	139.805	98.642	42.706	1.00	46.40	DS4
ATOM	36996	N	LEU	D	120	139.721	100.887	42.716	1.00	39.12	DS4
ATOM	36997	CA	LEU	D	120	138.406	100.894	43.331	1.00	39.12	DS4
ATOM	36998	CB	LEU	D	120	137.938	102.327	43.552	1.00	53.60	DS4
ATOM	36999	CG	LEU	D	120	138.652	102.940	44.753	1.00	53.60	DS4
ATOM	37000	CD1	LEU	D	120	138.419	104.442	44.826	1.00	53.60	DS4
ATOM	37001	CD2	LEU	D	120	138.152	102.231	45.994	1.00	53.60	DS4
ATOM	37002	C	LEU	D	120	137.424	100.143	42.457	1.00	39.12	DS4
ATOM	37003	O	LEU	D	120	136.789	99.193	42.914	1.00	39.12	DS4
ATOM	37004	N	VAL	D	121	137.306	100.562	41.198	1.00	56.55	DS4
ATOM	37005	CA	VAL	D	121	136.395	99.906	40.267	1.00	56.55	DS4
ATOM	37006	CB	VAL	D	121	136.541	100.476	38.840	1.00	56.94	DS4
ATOM	37007	CG1	VAL	D	121	135.830	99.569	37.848	1.00	56.94	DS4
ATOM	37008	CG2	VAL	D	121	135.945	101.873	38.769	1.00	56.94	DS4
ATOM	37009	C	VAL	D	121	136.687	98.407	40.239	1.00	56.55	DS4
ATOM	37010	O	VAL	D	121	135.771	97.581	40.230	1.00	56.55	DS4
ATOM	37011	N	ARG	D	122	137.973	98.072	40.230	1.00	50.50	DS4
ATOM	37012	CA	ARG	D	122	138.420	96.687	40.219	1.00	50.50	DS4
ATOM	37013	CB	ARG	D	122	139.942	96.638	40.234	1.00	65.63	DS4
ATOM	37014	CG	ARG	D	122	140.579	96.055	38.994	1.00	65.63	DS4
ATOM	37015	CD	ARG	D	122	140.326	94.563	38.855	1.00	65.63	DS4
ATOM	37016	NE	ARG	D	122	139.152	94.267	38.040	1.00	65.63	DS4
ATOM	37017	CZ	ARG	D	122	138.903	93.075	37.506	1.00	65.63	DS4
ATOM	37018	NH1	ARG	D	122	139.744	92.067	37.702	1.00	65.63	DS4
ATOM	37019	NH2	ARG	D	122	137.822	92.893	36.764	1.00	65.63	DS4
ATOM	37020	C	ARG	D	122	137.885	95.925	41.431	1.00	50.50	DS4
ATOM	37021	O	ARG	D	122	137.147	94.954	41.276	1.00	50.50	DS4
ATOM	37022	N	HIS	D	123	138.264	96.372	42.629	1.00	60.13	DS4
ATOM	37023	CA	HIS	D	123	137.834	95.743	43.880	1.00	60.13	DS4
ATOM	37024	CB	HIS	D	123	138.579	96.353	45.065	1.00	63.21	DS4
ATOM	37025	CG	HIS	D	123	140.048	96.078	45.064	1.00	63.21	DS4
ATOM	37026	CD2	HIS	D	123	141.097	96.846	45.440	1.00	63.21	DS4



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ATOM	37027	ND1	HIS	D	123	140.576	94.856	44.714	1.00	63.21	DS4
ATOM	37028	CE1	HIS	D	123	141.886	94.881	44.879	1.00	63.21	DS4
ATOM	37029	NE2	HIS	D	123	142.227	96.078	45.321	1.00	63.21	DS4
ATOM	37030	C	HIS	D	123	136.330	95.807	44.176	1.00	60.13	DS4
ATOM	37031	O	HIS	D	123	135.903	95.466	45.280	1.00	60.13	DS4
ATOM	37032	N	GLY	D	124	135.534	96.261	43.210	1.00	86.02	DS4
ATOM	37033	CA	GLY	D	124	134.089	96.322	43.393	1.00	86.02	DS4
ATOM	37034	C	GLY	D	124	133.499	97.369	44.326	1.00	86.02	DS4
ATOM	37035	O	GLY	D	124	132.348	97.237	44.738	1.00	86.02	DS4
ATOM	37036	N	HIS	D	125	134.262	98.407	44.656	1.00	65.41	DS4
ATOM	37037	CA	HIS	D	125	133.769	99.463	45.537	1.00	65.41	DS4
ATOM	37038	CB	HIS	D	125	134.936	100.213	46.185	1.00	66.80	DS4
ATOM	37039	CG	HIS	D	125	135.824	99.350	47.020	1.00	66.80	DS4
ATOM	37040	CD2	HIS	D	125	137.158	99.124	46.964	1.00	66.80	DS4
ATOM	37041	ND1	HIS	D	125	135.353	98.597	48.073	1.00	66.80	DS4
ATOM	37042	CE1	HIS	D	125	136.357	97.943	48.629	1.00	66.80	DS4
ATOM	37043	NE2	HIS	D	125	137.464	98.245	47.975	1.00	66.80	DS4
ATOM	37044	C	HIS	D	125	132.916	100.482	44.791	1.00	65.41	DS4
ATOM	37045	O	HIS	D	125	132.517	101.488	45.369	1.00	65.41	DS4
ATOM	37046	N	ILE	D	126	132.625	100.233	43.518	1.00	55.77	DS4
ATOM	37047	CA	ILE	D	126	131.851	101.199	42.744	1.00	55.77	DS4
ATOM	37048	CB	ILE	D	126	132.703	101.800	41.632	1.00	39.74	DS4
ATOM	37049	CG2	ILE	D	126	131.961	102.970	40.999	1.00	39.74	DS4
ATOM	37050	CG1	ILE	D	126	134.055	102.255	42.202	1.00	39.74	DS4
ATOM	37051	CD1	ILE	D	126	133.995	103.468	43.104	1.00	39.74	DS4
ATOM	37052	C	ILE	D	126	130.560	100.703	42.116	1.00	55.77	DS4
ATOM	37053	O	ILE	D	126	130.461	99.556	41.679	1.00	55.77	DS4
ATOM	37054	N	THR	D	127	129.592	101.616	42.050	1.00	86.80	DS4
ATOM	37055	CA	THR	D	127	128.252	101.376	41.514	1.00	86.80	DS4
ATOM	37056	CB	THR	D	127	127.186	101.802	42.548	1.00	93.66	DS4
ATOM	37057	OG1	THR	D	127	127.069	100.792	43.554	1.00	93.66	DS4
ATOM	37058	CG2	THR	D	127	125.829	102.056	41.879	1.00	93.66	DS4
ATOM	37059	C	THR	D	127	127.934	102.136	40.228	1.00	86.80	DS4
ATOM	37060	O	THR	D	127	128.406	103.253	40.017	1.00	86.80	DS4
ATOM	37061	N	VAL	D	128	127.114	101.526	39.380	1.00	49.63	DS4
ATOM	37062	CA	VAL	D	128	126.670	102.159	38.142	1.00	49.63	DS4
ATOM	37063	CB	VAL	D	128	127.430	101.631	36.925	1.00	46.40	DS4
ATOM	37064	CG1	VAL	D	128	126.788	102.151	35.649	1.00	46.40	DS4
ATOM	37065	CG2	VAL	D	128	128.879	102.069	37.000	1.00	46.40	DS4
ATOM	37066	C	VAL	D	128	125.197	101.816	38.003	1.00	49.63	DS4
ATOM	37067	O	VAL	D	128	124.845	100.727	37.543	1.00	49.63	DS4
ATOM	37068	N	ASN	D	129	124.341	102.744	38.418	1.00	50.35	DS4
ATOM	37069	CA	ASN	D	129	122.897	102.530	38.371	1.00	50.35	DS4
ATOM	37070	CB	ASN	D	129	122.425	102.263	36.945	1.00	62.81	DS4
ATOM	37071	CG	ASN	D	129	123.016	103.223	35.952	1.00	62.81	DS4
ATOM	37072	OD1	ASN	D	129	123.198	104.408	36.246	1.00	62.81	DS4
ATOM	37073	ND2	ASN	D	129	123.308	102.725	34.754	1.00	62.81	DS4
ATOM	37074	C	ASN	D	129	122.587	101.306	39.214	1.00	50.35	DS4
ATOM	37075	O	ASN	D	129	121.729	100.495	38.852	1.00	50.35	DS4
ATOM	37076	N	GLY	D	130	123.283	101.180	40.339	1.00	64.41	DS4
ATOM	37077	CA	GLY	D	130	123.090	100.025	41.189	1.00	64.41	DS4
ATOM	37078	C	GLY	D	130	124.185	99.045	40.819	1.00	64.41	DS4
ATOM	37079	O	GLY	D	130	125.360	99.319	41.078	1.00	64.41	DS4
ATOM	37080	N	ARG	D	131	123.812	97.929	40.190	1.00	67.83	DS4
ATOM	37081	CA	ARG	D	131	124.764	96.894	39.777	1.00	67.83	DS4
ATOM	37082	CB	ARG	D	131	124.513	96.473	38.323	1.00	138.43	DS4
ATOM	37083	CG	ARG	D	131	123.273	95.622	38.102	1.00	138.43	DS4
ATOM	37084	CD	ARG	D	131	121.991	96.442	38.165	1.00	138.43	DS4
ATOM	37085	NE	ARG	D	131	120.801	95.600	38.035	1.00	138.43	DS4
ATOM	37086	CZ	ARG	D	131	119.556	96.060	37.927	1.00	138.43	DS4
ATOM	37087	NH1	ARG	D	131	119.323	97.367	37.929	1.00	138.43	DS4
ATOM	37088	NH2	ARG	D	131	118.541	95.211	37.821	1.00	138.43	DS4
ATOM	37089	C	ARG	D	131	126.219	97.330	39.914	1.00	67.83	DS4
ATOM	37090	O	ARG	D	131	126.609	98.383	39.392	1.00	67.83	DS4
ATOM	37091	N	ARG	D	132	127.022	96.544	40.629	1.00	58.94	DS4
ATOM	37092	CA	ARG	D	132	128.422	96.898	40.757	1.00	58.94	DS4
ATOM	37093	CB	ARG	D	132	129.103	96.132	41.889	1.00	80.41	DS4
ATOM	37094	CG	ARG	D	132	129.466	94.714	41.564	1.00	80.41	DS4
ATOM	37095	CD	ARG	D	132	130.683	94.281	42.367	1.00	80.41	DS4
ATOM	37096	NE	ARG	D	132	130.762	92.829	42.436	1.00	80.41	DS4
ATOM	37097	CZ	ARG	D	132	129.875	92.073	43.077	1.00	80.41	DS4
ATOM	37098	NH1	ARG	D	132	128.850	92.635	43.707	1.00	80.41	DS4
ATOM	37099	NH2	ARG	D	132	129.998	90.755	43.070	1.00	80.41	DS4
ATOM	37100	C	ARG	D	132	129.052	96.547	39.411	1.00	58.94	DS4
ATOM	37101	O	ARG	D	132	128.658	95.576	38.756	1.00	58.94	DS4
ATOM	37102	N	VAL	D	133	130.028	97.345	39.000	1.00	37.44	DS4
ATOM	37103	CA	VAL	D	133	130.681	97.172	37.716	1.00	37.44	DS4



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ATOM	37104	CB	VAL	D	133	130.141	98.253	36.772	1.00	31.86	DS4
ATOM	37105	CG1	VAL	D	133	131.064	98.453	35.610	1.00	31.86	DS4
ATOM	37106	CG2	VAL	D	133	128.744	97.867	36.315	1.00	31.86	DS4
ATOM	37107	C	VAL	D	133	132.197	97.284	37.881	1.00	37.44	DS4
ATOM	37108	O	VAL	D	133	132.739	98.383	37.872	1.00	37.44	DS4
ATOM	37109	N	ASP	D	134	132.879	96.148	38.014	1.00	50.44	DS4
ATOM	37110	CA	ASP	D	134	134.327	96.141	38.232	1.00	50.44	DS4
ATOM	37111	CB	ASP	D	134	134.715	94.944	39.095	1.00	128.70	DS4
ATOM	37112	CG	ASP	D	134	134.357	93.627	38.446	1.00	128.70	DS4
ATOM	37113	OD1	ASP	D	134	133.157	93.278	38.418	1.00	128.70	DS4
ATOM	37114	OD2	ASP	D	134	135.276	92.943	37.951	1.00	128.70	DS4
ATOM	37115	C	ASP	D	134	135.228	96.156	37.003	1.00	50.44	DS4
ATOM	37116	O	ASP	D	134	136.336	95.620	37.048	1.00	50.44	DS4
ATOM	37117	N	LEU	D	135	134.769	96.775	35.917	1.00	65.29	DS4
ATOM	37118	CA	LEU	D	135	135.558	96.859	34.682	1.00	65.29	DS4
ATOM	37119	CB	LEU	D	135	134.726	96.413	33.499	1.00	42.68	DS4
ATOM	37120	CG	LEU	D	135	134.008	95.130	33.857	1.00	42.68	DS4
ATOM	37121	CD1	LEU	D	135	132.919	94.916	32.855	1.00	42.68	DS4
ATOM	37122	CD2	LEU	D	135	134.988	93.964	33.908	1.00	42.68	DS4
ATOM	37123	C	LEU	D	135	136.019	98.285	34.461	1.00	65.29	DS4
ATOM	37124	O	LEU	D	135	135.270	99.142	33.999	1.00	65.29	DS4
ATOM	37125	N	PRO	D	136	137.278	98.547	34.773	1.00	38.87	DS4
ATOM	37126	CD	PRO	D	136	138.281	97.545	35.146	1.00	44.37	DS4
ATOM	37127	CA	PRO	D	136	137.881	99.868	34.633	1.00	38.87	DS4
ATOM	37128	CB	PRO	D	136	139.351	99.614	34.946	1.00	44.37	DS4
ATOM	37129	CG	PRO	D	136	139.307	98.394	35.834	1.00	44.37	DS4
ATOM	37130	C	PRO	D	136	137.698	100.441	33.248	1.00	38.87	DS4
ATOM	37131	O	PRO	D	136	137.910	101.630	33.033	1.00	38.87	DS4
ATOM	37132	N	SER	D	137	137.302	99.602	32.301	1.00	47.03	DS4
ATOM	37133	CA	SER	D	137	137.127	100.060	30.930	1.00	47.03	DS4
ATOM	37134	CB	SER	D	137	137.793	99.067	29.984	1.00	71.62	DS4
ATOM	37135	OG	SER	D	137	137.356	97.749	30.264	1.00	71.62	DS4
ATOM	37136	C	SER	D	137	135.666	100.232	30.558	1.00	47.03	DS4
ATOM	37137	O	SER	D	137	135.327	100.365	29.388	1.00	47.03	DS4
ATOM	37138	N	TYR	D	138	134.800	100.226	31.559	1.00	38.95	DS4
ATOM	37139	CA	TYR	D	138	133.370	100.373	31.320	1.00	38.95	DS4
ATOM	37140	CB	TYR	D	138	132.597	100.082	32.601	1.00	55.77	DS4
ATOM	37141	CG	TYR	D	138	131.109	100.079	32.405	1.00	55.77	DS4
ATOM	37142	CD1	TYR	D	138	130.419	98.894	32.160	1.00	55.77	DS4
ATOM	37143	CE1	TYR	D	138	129.042	98.895	31.965	1.00	55.77	DS4
ATOM	37144	CD2	TYR	D	138	130.390	101.268	32.450	1.00	55.77	DS4
ATOM	37145	CE2	TYR	D	138	129.019	101.285	32.255	1.00	55.77	DS4
ATOM	37146	CZ	TYR	D	138	128.349	100.099	32.014	1.00	55.77	DS4
ATOM	37147	OH	TYR	D	138	126.990	100.139	31.819	1.00	55.77	DS4
ATOM	37148	C	TYR	D	138	133.012	101.775	30.801	1.00	38.95	DS4
ATOM	37149	O	TYR	D	138	133.325	102.810	31.414	1.00	38.95	DS4
ATOM	37150	N	ARG	D	139	132.334	101.812	29.667	1.00	52.37	DS4
ATOM	37151	CA	ARG	D	139	131.990	103.094	29.096	1.00	52.37	DS4
ATOM	37152	CB	ARG	D	139	131.809	102.983	27.596	1.00	43.62	DS4
ATOM	37153	CG	ARG	D	139	131.439	104.288	26.989	1.00	43.62	DS4
ATOM	37154	CD	ARG	D	139	131.557	104.219	25.506	1.00	43.62	DS4
ATOM	37155	NE	ARG	D	139	132.915	103.869	25.113	1.00	43.62	DS4
ATOM	37156	CZ	ARG	D	139	133.279	103.689	23.849	1.00	43.62	DS4
ATOM	37157	NH1	ARG	D	139	132.374	103.840	22.877	1.00	43.62	DS4
ATOM	37158	NH2	ARG	D	139	134.527	103.327	23.562	1.00	43.62	DS4
ATOM	37159	C	ARG	D	139	130.753	103.693	29.693	1.00	52.37	DS4
ATOM	37160	O	ARG	D	139	129.640	103.301	29.367	1.00	52.37	DS4
ATOM	37161	N	VAL	D	140	130.958	104.657	30.572	1.00	40.86	DS4
ATOM	37162	CA	VAL	D	140	129.853	105.347	31.213	1.00	40.86	DS4
ATOM	37163	CB	VAL	D	140	130.406	106.329	32.264	1.00	49.29	DS4
ATOM	37164	CG1	VAL	D	140	129.277	107.043	32.982	1.00	49.29	DS4
ATOM	37165	CG2	VAL	D	140	131.303	105.575	33.237	1.00	49.29	DS4
ATOM	37166	C	VAL	D	140	129.095	106.130	30.144	1.00	40.86	DS4
ATOM	37167	O	VAL	D	140	129.695	106.928	29.436	1.00	40.86	DS4
ATOM	37168	N	ARG	D	141	127.797	105.890	29.992	1.00	48.27	DS4
ATOM	37169	CA	ARG	D	141	127.013	106.655	29.018	1.00	48.27	DS4
ATOM	37170	CB	ARG	D	141	125.794	105.874	28.537	1.00	114.25	DS4
ATOM	37171	CG	ARG	D	141	126.059	104.552	27.887	1.00	114.25	DS4
ATOM	37172	CD	ARG	D	141	124.725	103.969	27.501	1.00	114.25	DS4
ATOM	37173	NE	ARG	D	141	124.816	102.605	27.003	1.00	114.25	DS4
ATOM	37174	CZ	ARG	D	141	123.764	101.895	26.605	1.00	114.25	DS4
ATOM	37175	NH1	ARG	D	141	122.549	102.429	26.650	1.00	114.25	DS4
ATOM	37176	NH2	ARG	D	141	123.921	100.652	26.162	1.00	114.25	DS4
ATOM	37177	C	ARG	D	141	126.505	107.921	29.735	1.00	48.27	DS4
ATOM	37178	O	ARG	D	141	126.683	108.075	30.948	1.00	48.27	DS4
ATOM	37179	N	PRO	D	142	125.877	108.852	28.997	1.00	64.10	DS4
ATOM	37180	CD	PRO	D	142	125.981	109.129	27.557	1.00	71.03	DS4



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ATOM	37181	CA	PRO	D	142	125.393	110.039	29.705	1.00	64.10	DS4
ATOM	37182	CB	PRO	D	142	125.212	111.055	28.584	1.00	71.03	DS4
ATOM	37183	CG	PRO	D	142	126.206	110.618	27.562	1.00	71.03	DS4
ATOM	37184	C	PRO	D	142	124.079	109.710	30.416	1.00	64.10	DS4
ATOM	37185	O	PRO	D	142	123.196	109.068	29.846	1.00	64.10	DS4
ATOM	37186	N	GLY	D	143	123.959	110.139	31.667	1.00	71.17	DS4
ATOM	37187	CA	GLY	D	143	122.751	109.868	32.425	1.00	71.17	DS4
ATOM	37188	C	GLY	D	143	122.952	108.823	33.508	1.00	71.17	DS4
ATOM	37189	O	GLY	D	143	122.087	108.629	34.359	1.00	71.17	DS4
ATOM	37190	N	ASP	D	144	124.094	108.145	33.482	1.00	49.55	DS4
ATOM	37191	CA	ASP	D	144	124.380	107.122	34.477	1.00	49.55	DS4
ATOM	37192	CB	ASP	D	144	125.574	106.272	34.053	1.00	84.18	DS4
ATOM	37193	CG	ASP	D	144	125.311	105.478	32.804	1.00	84.18	DS4
ATOM	37194	OD1	ASP	D	144	124.273	104.787	32.740	1.00	84.18	DS4
ATOM	37195	OD2	ASP	D	144	126.157	105.534	31.890	1.00	84.18	DS4
ATOM	37196	C	ASP	D	144	124.695	107.706	35.844	1.00	49.55	DS4
ATOM	37197	O	ASP	D	144	125.235	108.809	35.951	1.00	49.55	DS4
ATOM	37198	N	GLU	D	145	124.356	106.947	36.882	1.00	59.57	DS4
ATOM	37199	CA	GLU	D	145	124.629	107.338	38.258	1.00	59.57	DS4
ATOM	37200	CB	GLU	D	145	123.397	107.133	39.137	1.00	163.15	DS4
ATOM	37201	CG	GLU	D	145	122.270	108.103	38.862	1.00	163.15	DS4
ATOM	37202	CD	GLU	D	145	121.179	108.026	39.911	1.00	163.15	DS4
ATOM	37203	OE1	GLU	D	145	120.552	106.953	40.043	1.00	163.15	DS4
ATOM	37204	OE2	GLU	D	145	120.954	109.040	40.607	1.00	163.15	DS4
ATOM	37205	C	GLU	D	145	125.776	106.473	38.765	1.00	59.57	DS4
ATOM	37206	O	GLU	D	145	125.713	105.243	38.731	1.00	59.57	DS4
ATOM	37207	N	ILE	D	146	126.827	107.119	39.238	1.00	70.90	DS4
ATOM	37208	CA	ILE	D	146	127.982	106.395	39.730	1.00	70.90	DS4
ATOM	37209	CB	ILE	D	146	129.218	106.833	38.959	1.00	50.60	DS4
ATOM	37210	CG2	ILE	D	146	130.452	106.089	39.466	1.00	50.60	DS4
ATOM	37211	CG1	ILE	D	146	128.964	106.583	37.473	1.00	50.60	DS4
ATOM	37212	CD1	ILE	D	146	130.115	106.968	36.594	1.00	50.60	DS4
ATOM	37213	C	ILE	D	146	128.201	106.579	41.227	1.00	70.90	DS4
ATOM	37214	O	ILE	D	146	128.784	107.573	41.669	1.00	70.90	DS4
ATOM	37215	N	ALA	D	147	127.743	105.602	42.003	1.00	48.41	DS4
ATOM	37216	CA	ALA	D	147	127.871	105.674	43.448	1.00	48.41	DS4
ATOM	37217	CB	ALA	D	147	126.531	105.360	44.098	1.00	179.07	DS4
ATOM	37218	C	ALA	D	147	128.936	104.770	44.030	1.00	48.41	DS4
ATOM	37219	O	ALA	D	147	129.465	103.885	43.364	1.00	48.41	DS4
ATOM	37220	N	VAL	D	148	129.246	105.013	45.294	1.00	48.31	DS4
ATOM	37221	CA	VAL	D	148	130.219	104.208	45.996	1.00	48.31	DS4
ATOM	37222	CB	VAL	D	148	130.857	104.997	47.151	1.00	57.95	DS4
ATOM	37223	CG1	VAL	D	148	131.986	104.199	47.771	1.00	57.95	DS4
ATOM	37224	CG2	VAL	D	148	131.391	106.317	46.634	1.00	57.95	DS4
ATOM	37225	C	VAL	D	148	129.442	103.015	46.544	1.00	48.31	DS4
ATOM	37226	O	VAL	D	148	128.216	103.072	46.673	1.00	48.31	DS4
ATOM	37227	N	ALA	D	149	130.154	101.931	46.843	1.00	86.52	DS4
ATOM	37228	CA	ALA	D	149	129.537	100.717	47.367	1.00	86.52	DS4
ATOM	37229	CB	ALA	D	149	130.526	99.563	47.294	1.00	107.11	DS4
ATOM	37230	C	ALA	D	149	129.073	100.910	48.804	1.00	86.52	DS4
ATOM	37231	O	ALA	D	149	129.848	101.338	49.660	1.00	86.52	DS4
ATOM	37232	N	GLU	D	150	127.806	100.598	49.062	1.00	64.05	DS4
ATOM	37233	CA	GLU	D	150	127.254	100.736	50.401	1.00	64.05	DS4
ATOM	37234	CB	GLU	D	150	125.930	99.983	50.533	1.00	119.16	DS4
ATOM	37235	CG	GLU	D	150	125.025	100.093	49.324	1.00	119.16	DS4
ATOM	37236	CD	GLU	D	150	125.660	99.496	48.083	1.00	119.16	DS4
ATOM	37237	OE1	GLU	D	150	126.055	98.310	48.132	1.00	119.16	DS4
ATOM	37238	OE2	GLU	D	150	125.771	100.212	47.064	1.00	119.16	DS4
ATOM	37239	C	GLU	D	150	128.283	100.074	51.276	1.00	64.05	DS4
ATOM	37240	O	GLU	D	150	128.928	100.718	52.104	1.00	64.05	DS4
ATOM	37241	N	LYS	D	151	128.458	98.781	51.041	1.00	59.66	DS4
ATOM	37242	CA	LYS	D	151	129.407	97.987	51.791	1.00	59.66	DS4
ATOM	37243	CB	LYS	D	151	129.637	96.660	51.083	1.00	86.56	DS4
ATOM	37244	CG	LYS	D	151	128.467	95.705	51.196	1.00	86.56	DS4
ATOM	37245	CD	LYS	D	151	127.174	96.299	50.645	1.00	86.56	DS4
ATOM	37246	CE	LYS	D	151	125.999	95.332	50.827	1.00	86.56	DS4
ATOM	37247	NZ	LYS	D	151	124.687	95.898	50.373	1.00	86.56	DS4
ATOM	37248	C	LYS	D	151	130.735	98.703	51.995	1.00	59.66	DS4
ATOM	37249	O	LYS	D	151	131.415	98.500	53.012	1.00	59.66	DS4
ATOM	37250	N	SER	D	152	131.096	99.558	51.043	1.00	77.89	DS4
ATOM	37251	CA	SER	D	152	132.363	100.279	51.112	1.00	77.89	DS4
ATOM	37252	CB	SER	D	152	132.969	100.411	49.710	1.00	73.54	DS4
ATOM	37253	OG	SER	D	152	133.273	99.152	49.141	1.00	73.54	DS4
ATOM	37254	C	SER	D	152	132.289	101.662	51.739	1.00	77.89	DS4
ATOM	37255	O	SER	D	152	133.290	102.151	52.253	1.00	77.89	DS4
ATOM	37256	N	ARG	D	153	131.118	102.294	51.692	1.00	80.38	DS4
ATOM	37257	CA	ARG	D	153	130.957	103.640	52.240	1.00	80.38	DS4



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ATOM	37258	CB	ARG	D	153	129.471	104.003	52.311	1.00101.55	DS4
ATOM	37259	CG	ARG	D	153	128.886	104.280	50.943	1.00101.55	DS4
ATOM	37260	CD	ARG	D	153	127.467	104.819	50.984	1.00101.55	DS4
ATOM	37261	NE	ARG	D	153	126.467	103.757	51.038	1.00101.55	DS4
ATOM	37262	CZ	ARG	D	153	125.245	103.855	50.515	1.00101.55	DS4
ATOM	37263	NH1	ARG	D	153	124.875	104.972	49.894	1.00101.55	DS4
ATOM	37264	NH2	ARG	D	153	124.389	102.838	50.610	1.00101.55	DS4
ATOM	37265	C	ARG	D	153	131.621	103.838	53.601	1.00 80.38	DS4
ATOM	37266	O	ARG	D	153	131.915	104.966	54.001	1.00 80.38	DS4
ATOM	37267	N	ASN	D	154	131.879	102.732	54.291	1.00 92.06	DS4
ATOM	37268	CA	ASN	D	154	132.502	102.755	55.608	1.00 92.06	DS4
ATOM	37269	CB	ASN	D	154	132.129	101.487	56.373	1.00157.51	DS4
ATOM	37270	CG	ASN	D	154	130.639	101.240	56.385	1.00157.51	DS4
ATOM	37271	OD1	ASN	D	154	129.870	102.046	56.910	1.00157.51	DS4
ATOM	37272	ND2	ASN	D	154	130.218	100.123	55.799	1.00157.51	DS4
ATOM	37273	C	ASN	D	154	134.015	102.848	55.514	1.00 92.06	DS4
ATOM	37274	O	ASN	D	154	134.682	103.197	56.484	1.00 92.06	DS4
ATOM	37275	N	LEU	D	155	134.549	102.533	54.339	1.00 86.57	DS4
ATOM	37276	CA	LEU	D	155	135.990	102.551	54.104	1.00 86.57	DS4
ATOM	37277	CB	LEU	D	155	136.287	102.093	52.675	1.00 88.39	DS4
ATOM	37278	CG	LEU	D	155	136.051	100.601	52.433	1.00 88.39	DS4
ATOM	37279	CD1	LEU	D	155	136.059	100.298	50.946	1.00 88.39	DS4
ATOM	37280	CD2	LEU	D	155	137.125	99.808	53.158	1.00 88.39	DS4
ATOM	37281	C	LEU	D	155	136.682	103.882	54.377	1.00 86.57	DS4
ATOM	37282	O	LEU	D	155	136.353	104.920	53.785	1.00 86.57	DS4
ATOM	37283	N	GLU	D	156	137.656	103.823	55.280	1.00 71.20	DS4
ATOM	37284	CA	GLU	D	156	138.428	104.985	55.680	1.00 71.20	DS4
ATOM	37285	CB	GLU	D	156	139.688	104.539	56.417	1.00139.33	DS4
ATOM	37286	CG	GLU	D	156	140.560	105.686	56.880	1.00139.33	DS4
ATOM	37287	CD	GLU	D	156	141.963	105.242	57.233	1.00139.33	DS4
ATOM	37288	OE1	GLU	D	156	142.701	104.811	56.322	1.00139.33	DS4
ATOM	37289	OE2	GLU	D	156	142.331	105.320	58.422	1.00139.33	DS4
ATOM	37290	C	GLU	D	156	138.822	105.828	54.478	1.00 71.20	DS4
ATOM	37291	O	GLU	D	156	138.738	107.060	54.517	1.00 71.20	DS4
ATOM	37292	N	LEU	D	157	139.243	105.152	53.411	1.00 71.89	DS4
ATOM	37293	CA	LEU	D	157	139.683	105.825	52.191	1.00 71.89	DS4
ATOM	37294	CB	LEU	D	157	140.314	104.812	51.229	1.00 89.81	DS4
ATOM	37295	CG	LEU	D	157	141.103	105.381	50.041	1.00 89.81	DS4
ATOM	37296	CD1	LEU	D	157	141.908	104.257	49.398	1.00 89.81	DS4
ATOM	37297	CD2	LEU	D	157	140.165	106.031	49.029	1.00 89.81	DS4
ATOM	37298	C	LEU	D	157	138.578	106.591	51.476	1.00 71.89	DS4
ATOM	37299	O	LEU	D	157	138.763	107.749	51.109	1.00 71.89	DS4
ATOM	37300	N	ILE	D	158	137.438	105.943	51.270	1.00 72.26	DS4
ATOM	37301	CA	ILE	D	158	136.332	106.596	50.593	1.00 72.26	DS4
ATOM	37302	CB	ILE	D	158	135.151	105.650	50.426	1.00 77.53	DS4
ATOM	37303	CG2	ILE	D	158	134.100	106.273	49.512	1.00 77.53	DS4
ATOM	37304	CG1	ILE	D	158	135.647	104.343	49.824	1.00 77.53	DS4
ATOM	37305	CD1	ILE	D	158	134.600	103.269	49.788	1.00 77.53	DS4
ATOM	37306	C	ILE	D	158	135.882	107.810	51.389	1.00 72.26	DS4
ATOM	37307	O	ILE	D	158	135.446	108.812	50.814	1.00 72.26	DS4
ATOM	37308	N	ARG	D	159	135.983	107.729	52.713	1.00 76.50	DS4
ATOM	37309	CA	ARG	D	159	135.594	108.861	53.543	1.00 76.50	DS4
ATOM	37310	CB	ARG	D	159	135.433	108.422	54.996	1.00171.86	DS4
ATOM	37311	CG	ARG	D	159	134.221	107.537	55.196	1.00171.86	DS4
ATOM	37312	CD	ARG	D	159	133.964	107.234	56.657	1.00171.86	DS4
ATOM	37313	NE	ARG	D	159	132.751	106.438	56.818	1.00171.86	DS4
ATOM	37314	CZ	ARG	D	159	132.304	105.979	57.982	1.00171.86	DS4
ATOM	37315	NH1	ARG	D	159	132.972	106.236	59.098	1.00171.86	DS4
ATOM	37316	NH2	ARG	D	159	131.190	105.260	58.029	1.00171.86	DS4
ATOM	37317	C	ARG	D	159	136.608	110.001	53.424	1.00 76.50	DS4
ATOM	37318	O	ARG	D	159	136.239	111.118	53.065	1.00 76.50	DS4
ATOM	37319	N	GLN	D	160	137.882	109.721	53.701	1.00 69.58	DS4
ATOM	37320	CA	GLN	D	160	138.923	110.747	53.603	1.00 69.58	DS4
ATOM	37321	CB	GLN	D	160	140.316	110.128	53.735	1.00102.85	DS4
ATOM	37322	CG	GLN	D	160	140.635	109.584	55.115	1.00102.85	DS4
ATOM	37323	CD	GLN	D	160	142.062	109.064	55.222	1.00102.85	DS4
ATOM	37324	OE1	GLN	D	160	143.021	109.790	54.951	1.00102.85	DS4
ATOM	37325	NE2	GLN	D	160	142.207	107.804	55.620	1.00102.85	DS4
ATOM	37326	C	GLN	D	160	138.838	111.495	52.276	1.00 69.58	DS4
ATOM	37327	O	GLN	D	160	138.950	112.724	52.240	1.00 69.58	DS4
ATOM	37328	N	ASN	D	161	138.647	110.744	51.192	1.00 67.61	DS4
ATOM	37329	CA	ASN	D	161	138.545	111.313	49.849	1.00 67.61	DS4
ATOM	37330	CB	ASN	D	161	138.582	110.212	48.781	1.00 74.90	DS4
ATOM	37331	CG	ASN	D	161	139.958	109.568	48.631	1.00 74.90	DS4
ATOM	37332	OD1	ASN	D	161	140.880	109.816	49.419	1.00 74.90	DS4
ATOM	37333	ND2	ASN	D	161	140.094	108.724	47.612	1.00 74.90	DS4
ATOM	37334	C	ASN	D	161	137.247	112.087	49.713	1.00 67.61	DS4



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ATOM	37335	O	ASN	D	161	137.255	113.271	49.383	1.00	67.61	DS4
ATOM	37336	N	LEU	D	162	136.125	111.425	49.963	1.00	72.32	DS4
ATOM	37337	CA	LEU	D	162	134.857	112.119	49.853	1.00	72.32	DS4
ATOM	37338	CB	LEU	D	162	133.685	111.156	49.996	1.00	77.65	DS4
ATOM	37339	CG	LEU	D	162	133.097	110.836	48.618	1.00	77.65	DS4
ATOM	37340	CD1	LEU	D	162	131.909	109.916	48.767	1.00	77.65	DS4
ATOM	37341	CD2	LEU	D	162	132.672	112.128	47.921	1.00	77.65	DS4
ATOM	37342	C	LEU	D	162	134.751	113.241	50.868	1.00	72.32	DS4
ATOM	37343	O	LEU	D	162	133.886	114.105	50.748	1.00	72.32	DS4
ATOM	37344	N	GLU	D	163	135.632	113.228	51.867	1.00	87.49	DS4
ATOM	37345	CA	GLU	D	163	135.648	114.284	52.875	1.00	87.49	DS4
ATOM	37346	CB	GLU	D	163	136.559	113.921	54.055	1.00	117.17	DS4
ATOM	37347	CG	GLU	D	163	136.885	115.102	54.989	1.00	117.17	DS4
ATOM	37348	CD	GLU	D	163	135.646	115.722	55.644	1.00	117.17	DS4
ATOM	37349	OE1	GLU	D	163	135.776	116.764	56.328	1.00	117.17	DS4
ATOM	37350	OE2	GLU	D	163	134.540	115.167	55.479	1.00	117.17	DS4
ATOM	37351	C	GLU	D	163	136.204	115.513	52.179	1.00	87.49	DS4
ATOM	37352	O	GLU	D	163	135.484	116.481	51.920	1.00	87.49	DS4
ATOM	37353	N	ALA	D	164	137.496	115.456	51.871	1.00	63.46	DS4
ATOM	37354	CA	ALA	D	164	138.173	116.545	51.186	1.00	63.46	DS4
ATOM	37355	CB	ALA	D	164	139.563	116.087	50.743	1.00	66.89	DS4
ATOM	37356	C	ALA	D	164	137.338	116.980	49.979	1.00	63.46	DS4
ATOM	37357	O	ALA	D	164	137.547	118.050	49.410	1.00	63.46	DS4
ATOM	37358	N	MET	D	165	136.382	116.142	49.598	1.00	66.67	DS4
ATOM	37359	CA	MET	D	165	135.528	116.454	48.470	1.00	66.67	DS4
ATOM	37360	CB	MET	D	165	134.747	115.219	48.029	1.00	90.00	DS4
ATOM	37361	CG	MET	D	165	135.397	114.529	46.853	1.00	90.00	DS4
ATOM	37362	SD	MET	D	165	135.932	115.740	45.596	1.00	90.00	DS4
ATOM	37363	CE	MET	D	165	134.411	115.952	44.624	1.00	90.00	DS4
ATOM	37364	C	MET	D	165	134.567	117.610	48.718	1.00	66.67	DS4
ATOM	37365	O	MET	D	165	134.237	118.343	47.786	1.00	66.67	DS4
ATOM	37366	N	LYS	D	166	134.108	117.775	49.956	1.00	80.36	DS4
ATOM	37367	CA	LYS	D	166	133.198	118.873	50.271	1.00	80.36	DS4
ATOM	37368	CB	LYS	D	166	132.931	118.940	51.768	1.00	83.44	DS4
ATOM	37369	CG	LYS	D	166	132.476	117.650	52.411	1.00	83.44	DS4
ATOM	37370	CD	LYS	D	166	132.555	117.822	53.915	1.00	83.44	DS4
ATOM	37371	CE	LYS	D	166	132.076	116.608	54.661	1.00	83.44	DS4
ATOM	37372	NZ	LYS	D	166	132.306	116.808	56.118	1.00	83.44	DS4
ATOM	37373	C	LYS	D	166	133.882	120.166	49.844	1.00	80.36	DS4
ATOM	37374	O	LYS	D	166	135.028	120.423	50.223	1.00	80.36	DS4
ATOM	37375	N	GLY	D	167	133.189	120.978	49.057	1.00	123.91	DS4
ATOM	37376	CA	GLY	D	167	133.783	122.221	48.606	1.00	123.91	DS4
ATOM	37377	C	GLY	D	167	134.168	122.172	47.142	1.00	123.91	DS4
ATOM	37378	O	GLY	D	167	133.579	122.885	46.328	1.00	123.91	DS4
ATOM	37379	N	ARG	D	168	135.152	121.337	46.803	1.00	73.72	DS4
ATOM	37380	CA	ARG	D	168	135.610	121.198	45.418	1.00	73.72	DS4
ATOM	37381	CB	ARG	D	168	136.420	119.905	45.252	1.00	93.55	DS4
ATOM	37382	CG	ARG	D	168	137.750	119.809	45.996	1.00	93.55	DS4
ATOM	37383	CD	ARG	D	168	138.369	118.437	45.699	1.00	93.55	DS4
ATOM	37384	NE	ARG	D	168	139.728	118.246	46.208	1.00	93.55	DS4
ATOM	37385	CZ	ARG	D	168	140.453	117.146	45.994	1.00	93.55	DS4
ATOM	37386	NH1	ARG	D	168	139.948	116.145	45.285	1.00	93.55	DS4
ATOM	37387	NH2	ARG	D	168	141.687	117.039	46.481	1.00	93.55	DS4
ATOM	37388	C	ARG	D	168	134.440	121.169	44.413	1.00	73.72	DS4
ATOM	37389	O	ARG	D	168	133.435	120.480	44.633	1.00	73.72	DS4
ATOM	37390	N	LYS	D	169	134.566	121.920	43.319	1.00	81.16	DS4
ATOM	37391	CA	LYS	D	169	133.530	121.929	42.286	1.00	81.16	DS4
ATOM	37392	CB	LYS	D	169	133.642	123.180	41.414	1.00	96.75	DS4
ATOM	37393	CG	LYS	D	169	133.023	124.416	42.024	1.00	96.75	DS4
ATOM	37394	CD	LYS	D	169	133.000	125.571	41.032	1.00	96.75	DS4
ATOM	37395	CE	LYS	D	169	132.153	126.733	41.550	1.00	96.75	DS4
ATOM	37396	NZ	LYS	D	169	132.101	127.879	40.593	1.00	96.75	DS4
ATOM	37397	C	LYS	D	169	133.747	120.690	41.425	1.00	81.16	DS4
ATOM	37398	O	LYS	D	169	134.609	119.869	41.731	1.00	81.16	DS4
ATOM	37399	N	VAL	D	170	132.978	120.535	40.353	1.00	64.46	DS4
ATOM	37400	CA	VAL	D	170	133.177	119.373	39.499	1.00	64.46	DS4
ATOM	37401	CB	VAL	D	170	132.268	118.194	39.923	1.00	52.82	DS4
ATOM	37402	CG1	VAL	D	170	130.976	118.196	39.118	1.00	52.82	DS4
ATOM	37403	CG2	VAL	D	170	133.002	116.892	39.727	1.00	52.82	DS4
ATOM	37404	C	VAL	D	170	132.941	119.682	38.024	1.00	64.46	DS4
ATOM	37405	O	VAL	D	170	132.189	120.596	37.681	1.00	64.46	DS4
ATOM	37406	N	GLY	D	171	133.591	118.906	37.160	1.00	63.08	DS4
ATOM	37407	CA	GLY	D	171	133.457	119.100	35.728	1.00	63.08	DS4
ATOM	37408	C	GLY	D	171	132.051	119.465	35.306	1.00	63.08	DS4
ATOM	37409	O	GLY	D	171	131.087	118.868	35.795	1.00	63.08	DS4
ATOM	37410	N	PRO	D	172	131.898	120.446	34.399	1.00	52.77	DS4
ATOM	37411	CD	PRO	D	172	132.963	121.248	33.772	1.00	44.58	DS4



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ATOM	37412	CA	PRO	D	172	130.578	120.873	33.926	1.00	52.77	DS4
ATOM	37413	CB	PRO	D	172	130.906	122.015	32.951	1.00	44.58	DS4
ATOM	37414	CG	PRO	D	172	132.296	121.708	32.505	1.00	44.58	DS4
ATOM	37415	C	PRO	D	172	129.721	119.763	33.305	1.00	52.77	DS4
ATOM	37416	O	PRO	D	172	128.542	119.979	33.005	1.00	52.77	DS4
ATOM	37417	N	TRP	D	173	130.304	118.579	33.116	1.00	49.48	DS4
ATOM	37418	CA	TRP	D	173	129.549	117.451	32.557	1.00	49.48	DS4
ATOM	37419	CB	TRP	D	173	130.337	116.766	31.411	1.00	40.77	DS4
ATOM	37420	CG	TRP	D	173	131.645	116.086	31.788	1.00	40.77	DS4
ATOM	37421	CD2	TRP	D	173	132.908	116.720	32.035	1.00	40.77	DS4
ATOM	37422	CE2	TRP	D	173	133.832	115.702	32.361	1.00	40.77	DS4
ATOM	37423	CE3	TRP	D	173	133.350	118.049	32.013	1.00	40.77	DS4
ATOM	37424	CD1	TRP	D	173	131.851	114.746	31.967	1.00	40.77	DS4
ATOM	37425	NE1	TRP	D	173	133.162	114.508	32.312	1.00	40.77	DS4
ATOM	37426	CZ2	TRP	D	173	135.171	115.972	32.664	1.00	40.77	DS4
ATOM	37427	CZ3	TRP	D	173	134.692	118.318	32.313	1.00	40.77	DS4
ATOM	37428	CH2	TRP	D	173	135.582	117.281	32.633	1.00	40.77	DS4
ATOM	37429	C	TRP	D	173	129.222	116.458	33.677	1.00	49.48	DS4
ATOM	37430	O	TRP	D	173	128.560	115.437	33.471	1.00	49.48	DS4
ATOM	37431	N	LEU	D	174	129.666	116.796	34.880	1.00	68.24	DS4
ATOM	37432	CA	LEU	D	174	129.446	115.947	36.031	1.00	68.24	DS4
ATOM	37433	CB	LEU	D	174	130.792	115.604	36.657	1.00	44.76	DS4
ATOM	37434	CG	LEU	D	174	131.725	114.875	35.694	1.00	44.76	DS4
ATOM	37435	CD1	LEU	D	174	132.899	114.311	36.465	1.00	44.76	DS4
ATOM	37436	CD2	LEU	D	174	130.971	113.745	35.010	1.00	44.76	DS4
ATOM	37437	C	LEU	D	174	128.533	116.574	37.072	1.00	68.24	DS4
ATOM	37438	O	LEU	D	174	127.841	117.552	36.795	1.00	68.24	DS4
ATOM	37439	N	SER	D	175	128.550	115.997	38.272	1.00	76.71	DS4
ATOM	37440	CA	SER	D	175	127.744	116.457	39.403	1.00	76.71	DS4
ATOM	37441	CB	SER	D	175	126.321	116.774	38.947	1.00	73.67	DS4
ATOM	37442	OG	SER	D	175	125.762	115.666	38.266	1.00	73.67	DS4
ATOM	37443	C	SER	D	175	127.700	115.328	40.411	1.00	76.71	DS4
ATOM	37444	O	SER	D	175	127.527	114.177	40.022	1.00	76.71	DS4
ATOM	37445	N	LEU	D	176	127.861	115.638	41.694	1.00	103.46	DS4
ATOM	37446	CA	LEU	D	176	127.815	114.590	42.713	1.00	103.46	DS4
ATOM	37447	CB	LEU	D	176	129.218	114.115	43.090	1.00	71.19	DS4
ATOM	37448	CG	LEU	D	176	130.023	115.079	43.960	1.00	71.19	DS4
ATOM	37449	CD1	LEU	D	176	131.118	114.330	44.704	1.00	71.19	DS4
ATOM	37450	CD2	LEU	D	176	130.591	116.179	43.081	1.00	71.19	DS4
ATOM	37451	C	LEU	D	176	127.115	114.999	43.998	1.00	103.46	DS4
ATOM	37452	O	LEU	D	176	127.273	116.121	44.478	1.00	103.46	DS4
ATOM	37453	N	ASP	D	177	126.348	114.071	44.556	1.00	106.36	DS4
ATOM	37454	CA	ASP	D	177	125.651	114.315	45.807	1.00	106.36	DS4
ATOM	37455	CB	ASP	D	177	124.253	113.697	45.769	1.00	132.71	DS4
ATOM	37456	CG	ASP	D	177	123.528	113.818	47.094	1.00	132.71	DS4
ATOM	37457	OD1	ASP	D	177	123.904	113.105	48.046	1.00	132.71	DS4
ATOM	37458	OD2	ASP	D	177	122.585	114.630	47.189	1.00	132.71	DS4
ATOM	37459	C	ASP	D	177	126.496	113.653	46.884	1.00	106.36	DS4
ATOM	37460	O	ASP	D	177	126.245	112.510	47.266	1.00	106.36	DS4
ATOM	37461	N	VAL	D	178	127.508	114.376	47.354	1.00	52.68	DS4
ATOM	37462	CA	VAL	D	178	128.423	113.873	48.378	1.00	52.68	DS4
ATOM	37463	CB	VAL	D	178	129.233	115.010	48.987	1.00	41.23	DS4
ATOM	37464	CG1	VAL	D	178	130.554	114.482	49.528	1.00	41.23	DS4
ATOM	37465	CG2	VAL	D	178	129.440	116.084	47.957	1.00	41.23	DS4
ATOM	37466	C	VAL	D	178	127.723	113.145	49.526	1.00	52.68	DS4
ATOM	37467	O	VAL	D	178	128.303	112.271	50.168	1.00	52.68	DS4
ATOM	37468	N	GLU	D	179	126.475	113.511	49.788	1.00	112.14	DS4
ATOM	37469	CA	GLU	D	179	125.718	112.886	50.863	1.00	112.14	DS4
ATOM	37470	CB	GLU	D	179	124.310	113.486	50.924	1.00	159.85	DS4
ATOM	37471	CG	GLU	D	179	124.229	114.958	50.522	1.00	159.85	DS4
ATOM	37472	CD	GLU	D	179	125.179	115.846	51.306	1.00	159.85	DS4
ATOM	37473	OE1	GLU	D	179	126.410	115.692	51.157	1.00	159.85	DS4
ATOM	37474	OE2	GLU	D	179	124.692	116.703	52.072	1.00	159.85	DS4
ATOM	37475	C	GLU	D	179	125.633	111.374	50.643	1.00	112.14	DS4
ATOM	37476	O	GLU	D	179	126.304	110.600	51.327	1.00	112.14	DS4
ATOM	37477	N	GLY	D	180	124.806	110.968	49.680	1.00	132.43	DS4
ATOM	37478	CA	GLY	D	180	124.627	109.557	49.375	1.00	132.43	DS4
ATOM	37479	C	GLY	D	180	125.750	109.019	48.518	1.00	132.43	DS4
ATOM	37480	O	GLY	D	180	125.701	107.883	48.042	1.00	132.43	DS4
ATOM	37481	N	MET	D	181	126.764	109.855	48.321	1.00	77.17	DS4
ATOM	37482	CA	MET	D	181	127.936	109.500	47.536	1.00	77.17	DS4
ATOM	37483	CB	MET	D	181	128.676	108.360	48.230	1.00	78.42	DS4
ATOM	37484	CG	MET	D	181	128.936	108.666	49.697	1.00	78.42	DS4
ATOM	37485	SD	MET	D	181	129.900	107.429	50.582	1.00	78.42	DS4
ATOM	37486	CE	MET	D	181	131.146	108.455	51.450	1.00	78.42	DS4
ATOM	37487	C	MET	D	181	127.587	109.136	46.097	1.00	77.17	DS4
ATOM	37488	O	MET	D	181	128.262	108.326	45.470	1.00	77.17	DS4



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ATOM	37489	N	LYS	D	182	126.524	109.748	45.583	1.00	66.75	DS4
ATOM	37490	CA	LYS	D	182	126.084	109.528	44.213	1.00	66.75	DS4
ATOM	37491	CB	LYS	D	182	124.617	109.918	44.048	1.00	92.03	DS4
ATOM	37492	CG	LYS	D	182	123.711	109.400	45.121	1.00	92.03	DS4
ATOM	37493	CD	LYS	D	182	123.578	107.908	45.049	1.00	92.03	DS4
ATOM	37494	CE	LYS	D	182	122.707	107.378	46.177	1.00	92.03	DS4
ATOM	37495	NZ	LYS	D	182	122.508	105.893	46.107	1.00	92.03	DS4
ATOM	37496	C	LYS	D	182	126.924	110.443	43.333	1.00	66.75	DS4
ATOM	37497	O	LYS	D	182	127.964	110.953	43.754	1.00	66.75	DS4
ATOM	37498	N	GLY	D	183	126.436	110.675	42.120	1.00	65.29	DS4
ATOM	37499	CA	GLY	D	183	127.117	111.517	41.152	1.00	65.29	DS4
ATOM	37500	C	GLY	D	183	126.640	111.067	39.786	1.00	65.29	DS4
ATOM	37501	O	GLY	D	183	126.575	109.868	39.535	1.00	65.29	DS4
ATOM	37502	N	LYS	D	184	126.284	111.993	38.904	1.00	62.63	DS4
ATOM	37503	CA	LYS	D	184	125.812	111.597	37.583	1.00	62.63	DS4
ATOM	37504	CB	LYS	D	184	124.418	112.147	37.317	1.00	85.51	DS4
ATOM	37505	CG	LYS	D	184	123.298	111.304	37.858	1.00	85.51	DS4
ATOM	37506	CD	LYS	D	184	121.991	111.743	37.223	1.00	85.51	DS4
ATOM	37507	CE	LYS	D	184	120.835	110.862	37.662	1.00	85.51	DS4
ATOM	37508	NZ	LYS	D	184	119.591	111.160	36.886	1.00	85.51	DS4
ATOM	37509	C	LYS	D	184	126.719	112.020	36.443	1.00	62.63	DS4
ATOM	37510	O	LYS	D	184	127.533	112.937	36.573	1.00	62.63	DS4
ATOM	37511	N	PHE	D	185	126.559	111.334	35.317	1.00	38.74	DS4
ATOM	37512	CA	PHE	D	185	127.336	111.602	34.110	1.00	38.74	DS4
ATOM	37513	CB	PHE	D	185	127.776	110.276	33.472	1.00	49.17	DS4
ATOM	37514	CG	PHE	D	185	128.864	110.423	32.459	1.00	49.17	DS4
ATOM	37515	CD1	PHE	D	185	130.183	110.559	32.860	1.00	49.17	DS4
ATOM	37516	CD2	PHE	D	185	128.566	110.471	31.102	1.00	49.17	DS4
ATOM	37517	CE1	PHE	D	185	131.197	110.745	31.923	1.00	49.17	DS4
ATOM	37518	CE2	PHE	D	185	129.567	110.657	30.162	1.00	49.17	DS4
ATOM	37519	CZ	PHE	D	185	130.889	110.796	30.574	1.00	49.17	DS4
ATOM	37520	C	PHE	D	185	126.361	112.342	33.198	1.00	38.74	DS4
ATOM	37521	O	PHE	D	185	125.581	111.731	32.462	1.00	38.74	DS4
ATOM	37522	N	LEU	D	186	126.403	113.664	33.254	1.00	42.94	DS4
ATOM	37523	CA	LEU	D	186	125.481	114.486	32.473	1.00	42.94	DS4
ATOM	37524	CB	LEU	D	186	125.592	115.933	32.955	1.00	50.75	DS4
ATOM	37525	CG	LEU	D	186	125.234	116.047	34.436	1.00	50.75	DS4
ATOM	37526	CD1	LEU	D	186	125.879	117.262	35.042	1.00	50.75	DS4
ATOM	37527	CD2	LEU	D	186	123.724	116.080	34.573	1.00	50.75	DS4
ATOM	37528	C	LEU	D	186	125.605	114.418	30.952	1.00	42.94	DS4
ATOM	37529	O	LEU	D	186	124.607	114.210	30.255	1.00	42.94	DS4
ATOM	37530	N	ARG	D	187	126.819	114.608	30.443	1.00	55.23	DS4
ATOM	37531	CA	ARG	D	187	127.050	114.563	29.012	1.00	55.23	DS4
ATOM	37532	CB	ARG	D	187	126.510	115.835	28.360	1.00	116.54	DS4
ATOM	37533	CG	ARG	D	187	126.642	115.818	26.862	1.00	116.54	DS4
ATOM	37534	CD	ARG	D	187	126.026	114.549	26.309	1.00	116.54	DS4
ATOM	37535	NE	ARG	D	187	126.754	114.045	25.149	1.00	116.54	DS4
ATOM	37536	CZ	ARG	D	187	126.464	112.907	24.523	1.00	116.54	DS4
ATOM	37537	NH1	ARG	D	187	125.458	112.153	24.945	1.00	116.54	DS4
ATOM	37538	NH2	ARG	D	187	127.180	112.520	23.475	1.00	116.54	DS4
ATOM	37539	C	ARG	D	187	128.536	114.404	28.687	1.00	55.23	DS4
ATOM	37540	O	ARG	D	187	129.397	114.693	29.533	1.00	55.23	DS4
ATOM	37541	N	LEU	D	188	128.829	113.933	27.468	1.00	48.33	DS4
ATOM	37542	CA	LEU	D	188	130.209	113.751	27.004	1.00	48.33	DS4
ATOM	37543	CB	LEU	D	188	130.234	113.228	25.572	1.00	60.38	DS4
ATOM	37544	CG	LEU	D	188	129.785	111.801	25.286	1.00	60.38	DS4
ATOM	37545	CD1	LEU	D	188	129.881	111.501	23.786	1.00	60.38	DS4
ATOM	37546	CD2	LEU	D	188	130.675	110.852	26.074	1.00	60.38	DS4
ATOM	37547	C	LEU	D	188	130.909	115.100	27.019	1.00	48.33	DS4
ATOM	37548	O	LEU	D	188	130.434	116.052	26.397	1.00	48.33	DS4
ATOM	37549	N	PRO	D	189	132.051	115.200	27.717	1.00	46.23	DS4
ATOM	37550	CD	PRO	D	189	132.826	114.119	28.341	1.00	34.87	DS4
ATOM	37551	CA	PRO	D	189	132.785	116.465	27.783	1.00	46.23	DS4
ATOM	37552	CB	PRO	D	189	133.896	116.172	28.787	1.00	34.87	DS4
ATOM	37553	CG	PRO	D	189	134.204	114.764	28.519	1.00	34.87	DS4
ATOM	37554	C	PRO	D	189	133.313	116.872	26.412	1.00	46.23	DS4
ATOM	37555	O	PRO	D	189	133.579	116.032	25.547	1.00	46.23	DS4
ATOM	37556	N	ASP	D	190	133.444	118.175	26.219	1.00	66.72	DS4
ATOM	37557	CA	ASP	D	190	133.914	118.722	24.961	1.00	66.72	DS4
ATOM	37558	CB	ASP	D	190	133.153	120.014	24.663	1.00	133.98	DS4
ATOM	37559	CG	ASP	D	190	133.014	120.280	23.187	1.00	133.98	DS4
ATOM	37560	OD1	ASP	D	190	134.047	120.326	22.488	1.00	133.98	DS4
ATOM	37561	OD2	ASP	D	190	131.866	120.446	22.726	1.00	133.98	DS4
ATOM	37562	C	ASP	D	190	135.393	119.016	25.124	1.00	66.72	DS4
ATOM	37563	O	ASP	D	190	135.874	119.171	26.248	1.00	66.72	DS4
ATOM	37564	N	ARG	D	191	136.116	119.084	24.010	1.00	54.86	DS4
ATOM	37565	CA	ARG	D	191	137.543	119.382	24.065	1.00	54.86	DS4



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ATOM	37566	CB	ARG	D	191	138.083	119.670	22.663	1.00	78.56	DS4
ATOM	37567	CG	ARG	D	191	139.473	120.283	22.653	1.00	78.56	DS4
ATOM	37568	CD	ARG	D	191	140.416	119.514	23.562	1.00	78.56	DS4
ATOM	37569	NE	ARG	D	191	141.785	120.018	23.491	1.00	78.56	DS4
ATOM	37570	CZ	ARG	D	191	142.747	119.698	24.355	1.00	78.56	DS4
ATOM	37571	NH1	ARG	D	191	142.495	118.874	25.368	1.00	78.56	DS4
ATOM	37572	NH2	ARG	D	191	143.962	120.208	24.206	1.00	78.56	DS4
ATOM	37573	C	ARG	D	191	137.798	120.587	24.971	1.00	54.86	DS4
ATOM	37574	O	ARG	D	191	138.781	120.616	25.720	1.00	54.86	DS4
ATOM	37575	N	GLU	D	192	136.901	121.572	24.898	1.00	63.67	DS4
ATOM	37576	CA	GLU	D	192	137.016	122.786	25.695	1.00	63.67	DS4
ATOM	37577	CB	GLU	D	192	135.952	123.811	25.290	1.00	136.08	DS4
ATOM	37578	CG	GLU	D	192	136.202	124.514	23.965	1.00	136.08	DS4
ATOM	37579	CD	GLU	D	192	136.032	123.601	22.768	1.00	136.08	DS4
ATOM	37580	OE1	GLU	D	192	136.812	122.638	22.639	1.00	136.08	DS4
ATOM	37581	OE2	GLU	D	192	135.115	123.845	21.953	1.00	136.08	DS4
ATOM	37582	C	GLU	D	192	136.877	122.485	27.177	1.00	63.67	DS4
ATOM	37583	O	GLU	D	192	137.565	123.095	27.994	1.00	63.67	DS4
ATOM	37584	N	ASP	D	193	135.997	121.540	27.515	1.00	57.32	DS4
ATOM	37585	CA	ASP	D	193	135.747	121.156	28.909	1.00	57.32	DS4
ATOM	37586	CB	ASP	D	193	134.583	120.159	28.984	1.00	90.74	DS4
ATOM	37587	CG	ASP	D	193	133.225	120.822	28.765	1.00	90.74	DS4
ATOM	37588	OD1	ASP	D	193	132.845	121.697	29.575	1.00	90.74	DS4
ATOM	37589	OD2	ASP	D	193	132.533	120.469	27.784	1.00	90.74	DS4
ATOM	37590	C	ASP	D	193	136.964	120.579	29.629	1.00	57.32	DS4
ATOM	37591	O	ASP	D	193	137.032	120.612	30.861	1.00	57.32	DS4
ATOM	37592	N	LEU	D	194	137.921	120.059	28.861	1.00	68.26	DS4
ATOM	37593	CA	LEU	D	194	139.145	119.479	29.419	1.00	68.26	DS4
ATOM	37594	CB	LEU	D	194	139.520	118.183	28.682	1.00	42.93	DS4
ATOM	37595	CG	LEU	D	194	138.583	116.980	28.608	1.00	42.93	DS4
ATOM	37596	CD1	LEU	D	194	138.525	116.299	29.949	1.00	42.93	DS4
ATOM	37597	CD2	LEU	D	194	137.204	117.427	28.170	1.00	42.93	DS4
ATOM	37598	C	LEU	D	194	140.320	120.452	29.287	1.00	68.26	DS4
ATOM	37599	O	LEU	D	194	140.426	121.197	28.309	1.00	68.26	DS4
ATOM	37600	N	ALA	D	195	141.212	120.435	30.265	1.00	65.19	DS4
ATOM	37601	CA	ALA	D	195	142.374	121.303	30.208	1.00	65.19	DS4
ATOM	37602	CB	ALA	D	195	142.487	122.121	31.480	1.00	48.65	DS4
ATOM	37603	C	ALA	D	195	143.600	120.424	30.038	1.00	65.19	DS4
ATOM	37604	O	ALA	D	195	144.618	120.626	30.701	1.00	65.19	DS4
ATOM	37605	N	LEU	D	196	143.495	119.436	29.154	1.00	60.48	DS4
ATOM	37606	CA	LEU	D	196	144.602	118.522	28.897	1.00	60.48	DS4
ATOM	37607	CB	LEU	D	196	144.124	117.346	28.060	1.00	53.27	DS4
ATOM	37608	CG	LEU	D	196	143.377	116.268	28.829	1.00	53.27	DS4
ATOM	37609	CD1	LEU	D	196	142.473	115.476	27.896	1.00	53.27	DS4
ATOM	37610	CD2	LEU	D	196	144.393	115.373	29.507	1.00	53.27	DS4
ATOM	37611	C	LEU	D	196	145.735	119.211	28.163	1.00	60.48	DS4
ATOM	37612	O	LEU	D	196	145.517	119.885	27.157	1.00	60.48	DS4
ATOM	37613	N	PRO	D	197	146.966	119.045	28.655	1.00	57.46	DS4
ATOM	37614	CD	PRO	D	197	147.362	118.151	29.755	1.00	50.39	DS4
ATOM	37615	CA	PRO	D	197	148.143	119.654	28.033	1.00	57.46	DS4
ATOM	37616	CB	PRO	D	197	149.204	119.492	29.106	1.00	50.39	DS4
ATOM	37617	CG	PRO	D	197	148.890	118.115	29.613	1.00	50.39	DS4
ATOM	37618	C	PRO	D	197	148.458	118.819	26.797	1.00	57.46	DS4
ATOM	37619	O	PRO	D	197	149.581	118.334	26.625	1.00	57.46	DS4
ATOM	37620	N	VAL	D	198	147.455	118.639	25.947	1.00	59.55	DS4
ATOM	37621	CA	VAL	D	198	147.633	117.827	24.761	1.00	59.55	DS4
ATOM	37622	CB	VAL	D	198	146.918	116.479	24.912	1.00	65.97	DS4
ATOM	37623	CG1	VAL	D	198	146.979	115.708	23.601	1.00	65.97	DS4
ATOM	37624	CG2	VAL	D	198	147.565	115.683	26.034	1.00	65.97	DS4
ATOM	37625	C	VAL	D	198	147.166	118.458	23.472	1.00	59.55	DS4
ATOM	37626	O	VAL	D	198	146.114	119.081	23.405	1.00	59.55	DS4
ATOM	37627	N	GLN	D	199	147.971	118.272	22.442	1.00	58.41	DS4
ATOM	37628	CA	GLN	D	199	147.661	118.788	21.133	1.00	58.41	DS4
ATOM	37629	CB	GLN	D	199	148.936	119.348	20.507	1.00	107.31	DS4
ATOM	37630	CG	GLN	D	199	148.691	120.486	19.565	1.00	107.31	DS4
ATOM	37631	CD	GLN	D	199	147.844	120.071	18.393	1.00	76.53	DS4
ATOM	37632	OE1	GLN	D	199	148.332	119.985	17.265	1.00	76.53	DS4
ATOM	37633	NE2	GLN	D	199	146.563	119.797	18.648	1.00	76.53	DS4
ATOM	37634	C	GLN	D	199	147.156	117.565	20.366	1.00	58.41	DS4
ATOM	37635	O	GLN	D	199	147.868	116.999	19.538	1.00	58.41	DS4
ATOM	37636	N	GLU	D	200	145.932	117.141	20.659	1.00	55.77	DS4
ATOM	37637	CA	GLU	D	200	145.372	115.968	20.005	1.00	55.77	DS4
ATOM	37638	CB	GLU	D	200	143.901	115.766	20.383	1.00	67.95	DS4
ATOM	37639	CG	GLU	D	200	142.979	116.839	19.878	1.00	67.95	DS4
ATOM	37640	CD	GLU	D	200	142.943	118.061	20.785	1.00	67.95	DS4
ATOM	37641	OE1	GLU	D	200	144.019	118.505	21.248	1.00	67.95	DS4
ATOM	37642	OE2	GLU	D	200	141.836	118.589	21.028	1.00	67.95	DS4



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ATOM	37643	C	GLU	D	200	145.497	115.965	18.487	1.00	55.77	DS4
ATOM	37644	O	GLU	D	200	145.371	114.901	17.874	1.00	55.77	DS4
ATOM	37645	N	ASN	D	201	145.741	117.124	17.867	1.00	67.50	DS4
ATOM	37646	CA	ASN	D	201	145.878	117.153	16.406	1.00	67.50	DS4
ATOM	37647	CB	ASN	D	201	146.060	118.579	15.880	1.00	75.98	DS4
ATOM	37648	CG	ASN	D	201	145.682	118.713	14.399	1.00	75.98	DS4
ATOM	37649	OD1	ASN	D	201	144.532	118.469	14.016	1.00	75.98	DS4
ATOM	37650	ND2	ASN	D	201	146.648	119.103	13.564	1.00	75.98	DS4
ATOM	37651	C	ASN	D	201	147.090	116.298	16.038	1.00	67.50	DS4
ATOM	37652	O	ASN	D	201	147.094	115.604	15.022	1.00	67.50	DS4
ATOM	37653	N	LEU	D	202	148.116	116.335	16.878	1.00	50.68	DS4
ATOM	37654	CA	LEU	D	202	149.293	115.527	16.637	1.00	50.68	DS4
ATOM	37655	CB	LEU	D	202	150.385	115.860	17.624	1.00	30.19	DS4
ATOM	37656	CG	LEU	D	202	150.710	117.338	17.555	1.00	30.19	DS4
ATOM	37657	CD1	LEU	D	202	151.906	117.624	18.451	1.00	30.19	DS4
ATOM	37658	CD2	LEU	D	202	150.988	117.725	16.101	1.00	30.19	DS4
ATOM	37659	C	LEU	D	202	148.937	114.075	16.810	1.00	50.68	DS4
ATOM	37660	O	LEU	D	202	149.296	113.242	15.988	1.00	50.68	DS4
ATOM	37661	N	VAL	D	203	148.236	113.752	17.885	1.00	50.23	DS4
ATOM	37662	CA	VAL	D	203	147.895	112.364	18.083	1.00	50.23	DS4
ATOM	37663	CB	VAL	D	203	146.950	112.165	19.269	1.00	49.20	DS4
ATOM	37664	CG1	VAL	D	203	146.412	110.735	19.267	1.00	49.20	DS4
ATOM	37665	CG2	VAL	D	203	147.708	112.445	20.580	1.00	49.20	DS4
ATOM	37666	C	VAL	D	203	147.277	111.804	16.818	1.00	50.23	DS4
ATOM	37667	O	VAL	D	203	147.671	110.727	16.385	1.00	50.23	DS4
ATOM	37668	N	ILE	D	204	146.334	112.521	16.208	1.00	37.76	DS4
ATOM	37669	CA	ILE	D	204	145.731	112.027	14.966	1.00	37.76	DS4
ATOM	37670	CB	ILE	D	204	144.803	113.046	14.326	1.00	55.61	DS4
ATOM	37671	CG2	ILE	D	204	144.216	112.468	13.061	1.00	55.61	DS4
ATOM	37672	CG1	ILE	D	204	143.685	113.420	15.283	1.00	55.61	DS4
ATOM	37673	CD1	ILE	D	204	142.759	114.498	14.723	1.00	55.61	DS4
ATOM	37674	C	ILE	D	204	146.847	111.769	13.952	1.00	37.76	DS4
ATOM	37675	O	ILE	D	204	147.007	110.649	13.435	1.00	37.76	DS4
ATOM	37676	N	GLU	D	205	147.614	112.825	13.682	1.00	51.87	DS4
ATOM	37677	CA	GLU	D	205	148.731	112.772	12.749	1.00	51.87	DS4
ATOM	37678	CB	GLU	D	205	149.520	114.082	12.800	1.00	83.89	DS4
ATOM	37679	CG	GLU	D	205	148.738	115.295	12.331	1.00	83.89	DS4
ATOM	37680	CD	GLU	D	205	149.623	116.514	12.115	1.00	83.89	DS4
ATOM	37681	OE1	GLU	D	205	149.086	117.600	11.787	1.00	83.89	DS4
ATOM	37682	OE2	GLU	D	205	150.859	116.380	12.271	1.00	83.89	DS4
ATOM	37683	C	GLU	D	205	149.691	111.598	12.986	1.00	51.87	DS4
ATOM	37684	O	GLU	D	205	150.177	110.989	12.030	1.00	51.87	DS4
ATOM	37685	N	PHE	D	206	149.965	111.287	14.251	1.00	36.87	DS4
ATOM	37686	CA	PHE	D	206	150.875	110.198	14.602	1.00	36.87	DS4
ATOM	37687	CB	PHE	D	206	151.085	110.151	16.112	1.00	38.08	DS4
ATOM	37688	CG	PHE	D	206	151.828	108.941	16.575	1.00	38.08	DS4
ATOM	37689	CD1	PHE	D	206	153.215	108.922	16.579	1.00	38.08	DS4
ATOM	37690	CD2	PHE	D	206	151.141	107.809	16.993	1.00	38.08	DS4
ATOM	37691	CE1	PHE	D	206	153.919	107.782	17.001	1.00	38.08	DS4
ATOM	37692	CE2	PHE	D	206	151.830	106.671	17.413	1.00	38.08	DS4
ATOM	37693	CZ	PHE	D	206	153.221	106.659	17.417	1.00	38.08	DS4
ATOM	37694	C	PHE	D	206	150.337	108.858	14.147	1.00	36.87	DS4
ATOM	37695	O	PHE	D	206	151.098	107.930	13.881	1.00	36.87	DS4
ATOM	37696	N	TYR	D	207	149.019	108.749	14.093	1.00	34.63	DS4
ATOM	37697	CA	TYR	D	207	148.414	107.516	13.664	1.00	34.63	DS4
ATOM	37698	CB	TYR	D	207	147.110	107.266	14.415	1.00	43.57	DS4
ATOM	37699	CG	TYR	D	207	147.351	106.741	15.798	1.00	43.57	DS4
ATOM	37700	CD1	TYR	D	207	146.650	107.246	16.888	1.00	43.57	DS4
ATOM	37701	CE1	TYR	D	207	146.917	106.796	18.191	1.00	43.57	DS4
ATOM	37702	CD2	TYR	D	207	148.317	105.767	16.030	1.00	43.57	DS4
ATOM	37703	CE2	TYR	D	207	148.588	105.306	17.317	1.00	43.57	DS4
ATOM	37704	CZ	TYR	D	207	147.887	105.828	18.393	1.00	43.57	DS4
ATOM	37705	OH	TYR	D	207	148.161	105.395	19.668	1.00	43.57	DS4
ATOM	37706	C	TYR	D	207	148.170	107.575	12.175	1.00	34.63	DS4
ATOM	37707	O	TYR	D	207	147.637	106.628	11.582	1.00	34.63	DS4
ATOM	37708	N	SER	D	208	148.550	108.699	11.571	1.00	55.54	DS4
ATOM	37709	CA	SER	D	208	148.396	108.872	10.128	1.00	55.54	DS4
ATOM	37710	CB	SER	D	208	148.396	110.353	9.736	1.00	117.71	DS4
ATOM	37711	OG	SER	D	208	147.148	110.962	10.028	1.00	117.71	DS4
ATOM	37712	C	SER	D	208	149.568	108.176	9.489	1.00	55.54	DS4
ATOM	37713	O	SER	D	208	149.411	107.482	8.493	1.00	55.54	DS4
ATOM	37714	N	ARG	D	209	150.739	108.355	10.091	1.00	111.60	DS4
ATOM	37715	CA	ARG	D	209	151.970	107.745	9.604	1.00	111.60	DS4
ATOM	37716	CB	ARG	D	209	153.083	107.859	10.647	1.00	111.05	DS4
ATOM	37717	CG	ARG	D	209	154.435	107.460	10.108	1.00	111.05	DS4
ATOM	37718	CD	ARG	D	209	155.529	107.609	11.140	1.00	111.05	DS4
ATOM	37719	NE	ARG	D	209	156.843	107.429	10.530	1.00	111.05	DS4



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ATOM	37720	CZ	ARG	D	209	157.229	106.326	9.895	1.00111.05	DS4
ATOM	37721	NH1	ARG	D	209	156.400	105.294	9.789	1.00111.05	DS4
ATOM	37722	NH2	ARG	D	209	158.441	106.260	9.356	1.00111.05	DS4
ATOM	37723	C	ARG	D	209	151.737	106.280	9.296	1.00111.60	DS4
ATOM	37724	O	ARG	D	209	152.181	105.835	8.215	1.00111.60	DS4
ATOM	37725	OXT	ARG	D	209	151.125	105.602	10.154	1.00 74.01	DS4
TER	37725		ARG	D	209					DS4
ATOM	37726	CB	ASP	E	5	155.267	138.233	14.352	1.00143.63	ES5
ATOM	37727	CG	ASP	E	5	156.738	138.498	14.607	1.00143.63	ES5
ATOM	37728	OD1	ASP	E	5	157.148	138.494	15.788	1.00143.63	ES5
ATOM	37729	OD2	ASP	E	5	157.484	138.716	13.628	1.00143.63	ES5
ATOM	37730	C	ASP	E	5	155.164	135.764	13.867	1.00127.49	ES5
ATOM	37731	O	ASP	E	5	154.355	134.865	13.627	1.00127.49	ES5
ATOM	37732	N	ASP	E	5	155.395	136.615	16.221	1.00127.49	ES5
ATOM	37733	CA	ASP	E	5	154.812	136.864	14.873	1.00127.49	ES5
ATOM	37734	N	PHE	E	6	156.361	135.836	13.280	1.00 78.93	ES5
ATOM	37735	CA	PHE	E	6	156.805	134.835	12.306	1.00 78.93	ES5
ATOM	37736	CB	PHE	E	6	157.659	135.479	11.210	1.00 65.06	ES5
ATOM	37737	CG	PHE	E	6	156.865	136.085	10.089	1.00 65.06	ES5
ATOM	37738	CD1	PHE	E	6	157.496	136.864	9.122	1.00 65.06	ES5
ATOM	37739	CD2	PHE	E	6	155.493	135.888	9.993	1.00 65.06	ES5
ATOM	37740	CE1	PHE	E	6	156.772	137.444	8.070	1.00 65.06	ES5
ATOM	37741	CE2	PHE	E	6	154.758	136.463	8.947	1.00 65.06	ES5
ATOM	37742	CZ	PHE	E	6	155.401	137.243	7.986	1.00 65.06	ES5
ATOM	37743	C	PHE	E	6	157.604	133.712	12.951	1.00 78.93	ES5
ATOM	37744	O	PHE	E	6	158.501	133.955	13.762	1.00 78.93	ES5
ATOM	37745	N	GLU	E	7	157.263	132.480	12.582	1.00 63.33	ES5
ATOM	37746	CA	GLU	E	7	157.944	131.305	13.096	1.00 63.33	ES5
ATOM	37747	CB	GLU	E	7	156.928	130.259	13.556	1.00121.55	ES5
ATOM	37748	CG	GLU	E	7	157.553	129.013	14.170	1.00121.55	ES5
ATOM	37749	CD	GLU	E	7	156.513	128.023	14.681	1.00121.55	ES5
ATOM	37750	OE1	GLU	E	7	156.903	126.926	15.142	1.00121.55	ES5
ATOM	37751	OE2	GLU	E	7	155.305	128.343	14.626	1.00121.55	ES5
ATOM	37752	C	GLU	E	7	158.809	130.747	11.971	1.00 63.33	ES5
ATOM	37753	O	GLU	E	7	158.440	130.815	10.792	1.00 63.33	ES5
ATOM	37754	N	GLU	E	8	159.970	130.215	12.341	1.00 62.83	ES5
ATOM	37755	CA	GLU	E	8	160.902	129.652	11.375	1.00 62.83	ES5
ATOM	37756	CB	GLU	E	8	162.281	130.305	11.511	1.00113.84	ES5
ATOM	37757	CG	GLU	E	8	162.381	131.741	11.031	1.00113.84	ES5
ATOM	37758	CD	GLU	E	8	163.766	132.339	11.252	1.00113.84	ES5
ATOM	37759	OE1	GLU	E	8	164.179	132.432	12.425	1.00113.84	ES5
ATOM	37760	OE2	GLU	E	8	164.439	132.715	10.261	1.00113.84	ES5
ATOM	37761	C	GLU	E	8	161.070	128.155	11.566	1.00 62.83	ES5
ATOM	37762	O	GLU	E	8	161.274	127.674	12.679	1.00 62.83	ES5
ATOM	37763	N	LYS	E	9	160.965	127.419	10.470	1.00 64.44	ES5
ATOM	37764	CA	LYS	E	9	161.173	125.982	10.499	1.00 64.44	ES5
ATOM	37765	CB	LYS	E	9	159.879	125.222	10.195	1.00 91.01	ES5
ATOM	37766	CG	LYS	E	9	158.900	125.240	11.354	1.00 91.01	ES5
ATOM	37767	CD	LYS	E	9	157.632	124.445	11.070	1.00 91.01	ES5
ATOM	37768	CE	LYS	E	9	157.905	122.962	10.937	1.00 91.01	ES5
ATOM	37769	NZ	LYS	E	9	156.640	122.195	10.766	1.00 91.01	ES5
ATOM	37770	C	LYS	E	9	162.229	125.720	9.434	1.00 64.44	ES5
ATOM	37771	O	LYS	E	9	162.106	126.181	8.290	1.00 64.44	ES5
ATOM	37772	N	MET	E	10	163.284	125.014	9.834	1.00 52.06	ES5
ATOM	37773	CA	MET	E	10	164.394	124.693	8.946	1.00 52.06	ES5
ATOM	37774	CB	MET	E	10	165.679	124.650	9.777	1.00114.07	ES5
ATOM	37775	CG	MET	E	10	166.955	124.451	9.004	1.00114.07	ES5
ATOM	37776	SD	MET	E	10	167.133	122.749	8.476	1.00114.07	ES5
ATOM	37777	CE	MET	E	10	166.978	121.864	10.043	1.00114.07	ES5
ATOM	37778	C	MET	E	10	164.131	123.360	8.237	1.00 52.06	ES5
ATOM	37779	O	MET	E	10	164.220	122.298	8.853	1.00 52.06	ES5
ATOM	37780	N	ILE	E	11	163.792	123.436	6.947	1.00 70.10	ES5
ATOM	37781	CA	ILE	E	11	163.490	122.271	6.104	1.00 70.10	ES5
ATOM	37782	CB	ILE	E	11	163.051	122.717	4.708	1.00 50.95	ES5
ATOM	37783	CG2	ILE	E	11	163.160	121.562	3.730	1.00 50.95	ES5
ATOM	37784	CG1	ILE	E	11	161.615	123.210	4.763	1.00 50.95	ES5
ATOM	37785	CD1	ILE	E	11	160.628	122.104	5.086	1.00 50.95	ES5
ATOM	37786	C	ILE	E	11	164.627	121.260	5.939	1.00 70.10	ES5
ATOM	37787	O	ILE	E	11	164.495	120.104	6.343	1.00 70.10	ES5
ATOM	37788	N	LEU	E	12	165.720	121.680	5.304	1.00 54.12	ES5
ATOM	37789	CA	LEU	E	12	166.880	120.807	5.133	1.00 54.12	ES5
ATOM	37790	CB	LEU	E	12	166.688	119.836	3.953	1.00 52.75	ES5
ATOM	37791	CG	LEU	E	12	166.977	120.188	2.479	1.00 52.75	ES5
ATOM	37792	CD1	LEU	E	12	166.142	121.374	2.089	1.00 52.75	ES5
ATOM	37793	CD2	LEU	E	12	168.459	120.477	2.244	1.00 52.75	ES5
ATOM	37794	C	LEU	E	12	168.134	121.631	4.902	1.00 54.12	ES5
ATOM	37795	O	LEU	E	12	168.077	122.690	4.269	1.00 54.12	ES5



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ATOM	37796	N	ILE	E	13	169.259	121.169	5.440	1.00	45.17	ES5
ATOM	37797	CA	ILE	E	13	170.521	121.863	5.213	1.00	45.17	ES5
ATOM	37798	CB	ILE	E	13	171.096	122.502	6.479	1.00	49.27	ES5
ATOM	37799	CG2	ILE	E	13	170.397	123.814	6.764	1.00	49.27	ES5
ATOM	37800	CG1	ILE	E	13	170.965	121.545	7.644	1.00	49.27	ES5
ATOM	37801	CD1	ILE	E	13	171.569	122.106	8.888	1.00	49.27	ES5
ATOM	37802	C	ILE	E	13	171.496	120.834	4.695	1.00	45.17	ES5
ATOM	37803	O	ILE	E	13	171.619	119.755	5.271	1.00	45.17	ES5
ATOM	37804	N	ARG	E	14	172.177	121.171	3.602	1.00	32.40	ES5
ATOM	37805	CA	ARG	E	14	173.120	120.256	2.976	1.00	32.40	ES5
ATOM	37806	CB	ARG	E	14	172.612	119.896	1.585	1.00	35.89	ES5
ATOM	37807	CG	ARG	E	14	172.336	121.093	0.711	1.00	35.89	ES5
ATOM	37808	CD	ARG	E	14	171.705	120.634	-0.559	1.00	35.89	ES5
ATOM	37809	NE	ARG	E	14	171.793	121.662	-1.580	1.00	35.89	ES5
ATOM	37810	CZ	ARG	E	14	171.300	121.529	-2.811	1.00	35.89	ES5
ATOM	37811	NH1	ARG	E	14	170.683	120.397	-3.161	1.00	35.89	ES5
ATOM	37812	NH2	ARG	E	14	171.423	122.529	-3.692	1.00	35.89	ES5
ATOM	37813	C	ARG	E	14	174.529	120.825	2.891	1.00	32.40	ES5
ATOM	37814	O	ARG	E	14	174.727	122.051	2.933	1.00	32.40	ES5
ATOM	37815	N	ARG	E	15	175.512	119.944	2.731	1.00	43.31	ES5
ATOM	37816	CA	ARG	E	15	176.876	120.420	2.707	1.00	43.31	ES5
ATOM	37817	CB	ARG	E	15	177.783	119.441	3.449	1.00	47.64	ES5
ATOM	37818	CG	ARG	E	15	179.062	120.089	3.986	1.00	47.64	ES5
ATOM	37819	CD	ARG	E	15	180.187	119.916	3.011	1.00	47.64	ES5
ATOM	37820	NE	ARG	E	15	180.749	118.567	3.055	1.00	47.64	ES5
ATOM	37821	CZ	ARG	E	15	181.682	118.176	3.920	1.00	47.64	ES5
ATOM	37822	NH1	ARG	E	15	182.164	119.029	4.819	1.00	47.64	ES5
ATOM	37823	NH2	ARG	E	15	182.151	116.939	3.876	1.00	47.64	ES5
ATOM	37824	C	ARG	E	15	177.529	120.820	1.405	1.00	43.31	ES5
ATOM	37825	O	ARG	E	15	178.542	121.496	1.458	1.00	43.31	ES5
ATOM	37826	N	THR	E	16	176.990	120.427	0.255	1.00	45.03	ES5
ATOM	37827	CA	THR	E	16	177.572	120.818	-1.050	1.00	45.03	ES5
ATOM	37828	CB	THR	E	16	176.878	122.097	-1.634	1.00	57.74	ES5
ATOM	37829	OG1	THR	E	16	177.683	122.624	-2.693	1.00	57.74	ES5
ATOM	37830	CG2	THR	E	16	176.733	123.197	-0.581	1.00	57.74	ES5
ATOM	37831	C	THR	E	16	179.100	121.082	-1.157	1.00	45.03	ES5
ATOM	37832	O	THR	E	16	179.637	121.986	-0.507	1.00	45.03	ES5
ATOM	37833	N	ALA	E	17	179.800	120.334	-2.010	1.00	47.00	ES5
ATOM	37834	CA	ALA	E	17	181.239	120.556	-2.156	1.00	47.00	ES5
ATOM	37835	CB	ALA	E	17	181.993	119.305	-1.795	1.00	66.56	ES5
ATOM	37836	C	ALA	E	17	181.654	121.029	-3.545	1.00	47.00	ES5
ATOM	37837	O	ALA	E	17	181.065	120.653	-4.554	1.00	47.00	ES5
ATOM	37838	N	ARG	E	18	182.687	121.859	-3.574	1.00	52.40	ES5
ATOM	37839	CA	ARG	E	18	183.211	122.420	-4.810	1.00	52.40	ES5
ATOM	37840	CB	ARG	E	18	182.975	123.915	-4.800	1.00	50.02	ES5
ATOM	37841	CG	ARG	E	18	183.713	124.641	-5.863	1.00	50.02	ES5
ATOM	37842	CD	ARG	E	18	184.744	125.540	-5.222	1.00	50.02	ES5
ATOM	37843	NE	ARG	E	18	184.135	126.353	-4.179	1.00	50.02	ES5
ATOM	37844	CZ	ARG	E	18	184.767	127.316	-3.527	1.00	50.02	ES5
ATOM	37845	NH1	ARG	E	18	186.032	127.589	-3.815	1.00	50.02	ES5
ATOM	37846	NH2	ARG	E	18	184.126	127.997	-2.587	1.00	50.02	ES5
ATOM	37847	C	ARG	E	18	184.706	122.106	-4.922	1.00	52.40	ES5
ATOM	37848	O	ARG	E	18	185.377	121.914	-3.906	1.00	52.40	ES5
ATOM	37849	N	MET	E	19	185.242	122.058	-6.141	1.00	56.44	ES5
ATOM	37850	CA	MET	E	19	186.655	121.708	-6.300	1.00	56.44	ES5
ATOM	37851	CB	MET	E	19	186.806	120.576	-7.302	1.00	46.14	ES5
ATOM	37852	CG	MET	E	19	186.389	119.259	-6.731	1.00	46.14	ES5
ATOM	37853	SD	MET	E	19	187.491	118.765	-5.422	1.00	46.14	ES5
ATOM	37854	CE	MET	E	19	187.813	117.001	-5.960	1.00	46.14	ES5
ATOM	37855	C	MET	E	19	187.645	122.775	-6.676	1.00	56.44	ES5
ATOM	37856	O	MET	E	19	187.381	123.634	-7.510	1.00	56.44	ES5
ATOM	37857	N	GLN	E	20	188.804	122.704	-6.047	1.00	54.33	ES5
ATOM	37858	CA	GLN	E	20	189.878	123.628	-6.335	1.00	54.33	ES5
ATOM	37859	CB	GLN	E	20	190.050	124.675	-5.236	1.00	98.14	ES5
ATOM	37860	CG	GLN	E	20	189.116	125.846	-5.368	1.00	98.14	ES5
ATOM	37861	CD	GLN	E	20	189.209	126.496	-6.730	1.00	98.14	ES5
ATOM	37862	OE1	GLN	E	20	190.283	126.941	-7.143	1.00	98.14	ES5
ATOM	37863	NE2	GLN	E	20	188.082	126.554	-7.442	1.00	98.14	ES5
ATOM	37864	C	GLN	E	20	191.093	122.757	-6.356	1.00	54.33	ES5
ATOM	37865	O	GLN	E	20	191.092	121.660	-5.780	1.00	54.33	ES5
ATOM	37866	N	ALA	E	21	192.121	123.215	-7.053	1.00	80.60	ES5
ATOM	37867	CA	ALA	E	21	193.353	122.471	-7.058	1.00	80.60	ES5
ATOM	37868	CB	ALA	E	21	194.409	123.248	-7.774	1.00	36.59	ES5
ATOM	37869	C	ALA	E	21	193.593	122.521	-5.562	1.00	80.60	ES5
ATOM	37870	O	ALA	E	21	193.191	123.488	-4.916	1.00	80.60	ES5
ATOM	37871	N	GLY	E	22	194.203	121.503	-4.986	1.00	45.51	ES5
ATOM	37872	CA	GLY	E	22	194.424	121.581	-3.560	1.00	45.51	ES5



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ATOM	37873	C	GLY	E	22	193.332	120.930	-2.736	1.00	45.51	ES5
ATOM	37874	O	GLY	E	22	193.605	120.452	-1.639	1.00	45.51	ES5
ATOM	37875	N	GLY	E	23	192.095	120.905	-3.216	1.00	53.01	ES5
ATOM	37876	CA	GLY	E	23	191.084	120.237	-2.414	1.00	53.01	ES5
ATOM	37877	C	GLY	E	23	189.621	120.598	-2.588	1.00	53.01	ES5
ATOM	37878	O	GLY	E	23	189.241	121.345	-3.510	1.00	53.01	ES5
ATOM	37879	N	ARG	E	24	188.801	120.033	-1.692	1.00	53.31	ES5
ATOM	37880	CA	ARG	E	24	187.364	120.263	-1.674	1.00	53.31	ES5
ATOM	37881	CB	ARG	E	24	186.652	119.124	-0.955	1.00	75.47	ES5
ATOM	37882	CG	ARG	E	24	187.014	117.766	-1.490	1.00	75.47	ES5
ATOM	37883	CD	ARG	E	24	186.065	116.683	-0.997	1.00	75.47	ES5
ATOM	37884	NE	ARG	E	24	186.456	115.368	-1.504	1.00	75.47	ES5
ATOM	37885	CZ	ARG	E	24	186.638	115.086	-2.795	1.00	75.47	ES5
ATOM	37886	NH1	ARG	E	24	186.460	116.029	-3.709	1.00	75.47	ES5
ATOM	37887	NH2	ARG	E	24	187.006	113.865	-3.181	1.00	75.47	ES5
ATOM	37888	C	ARG	E	24	187.124	121.560	-0.927	1.00	53.31	ES5
ATOM	37889	O	ARG	E	24	187.826	121.865	0.033	1.00	53.31	ES5
ATOM	37890	N	ARG	E	25	186.145	122.330	-1.386	1.00	56.87	ES5
ATOM	37891	CA	ARG	E	25	185.795	123.594	-0.758	1.00	56.87	ES5
ATOM	37892	CB	ARG	E	25	186.369	124.735	-1.566	1.00	66.80	ES5
ATOM	37893	CG	ARG	E	25	187.856	124.627	-1.586	1.00	66.80	ES5
ATOM	37894	CD	ARG	E	25	188.489	125.966	-1.416	1.00	66.80	ES5
ATOM	37895	NE	ARG	E	25	189.874	125.835	-0.982	1.00	66.80	ES5
ATOM	37896	CZ	ARG	E	25	190.740	126.843	-0.950	1.00	66.80	ES5
ATOM	37897	NH1	ARG	E	25	190.360	128.066	-1.336	1.00	66.80	ES5
ATOM	37898	NH2	ARG	E	25	191.982	126.624	-0.523	1.00	66.80	ES5
ATOM	37899	C	ARG	E	25	184.286	123.673	-0.646	1.00	56.87	ES5
ATOM	37900	O	ARG	E	25	183.574	124.029	-1.594	1.00	56.87	ES5
ATOM	37901	N	PHE	E	26	183.828	123.324	0.552	1.00	60.92	ES5
ATOM	37902	CA	PHE	E	26	182.423	123.249	0.894	1.00	60.92	ES5
ATOM	37903	CB	PHE	E	26	182.261	122.449	2.172	1.00	50.20	ES5
ATOM	37904	CG	PHE	E	26	183.298	121.402	2.344	1.00	50.20	ES5
ATOM	37905	CD1	PHE	E	26	184.570	121.741	2.762	1.00	50.20	ES5
ATOM	37906	CD2	PHE	E	26	183.017	120.078	2.068	1.00	50.20	ES5
ATOM	37907	CE1	PHE	E	26	185.548	120.760	2.903	1.00	50.20	ES5
ATOM	37908	CE2	PHE	E	26	183.979	119.093	2.205	1.00	50.20	ES5
ATOM	37909	CZ	PHE	E	26	185.244	119.428	2.621	1.00	50.20	ES5
ATOM	37910	C	PHE	E	26	181.688	124.553	1.044	1.00	60.92	ES5
ATOM	37911	O	PHE	E	26	182.282	125.624	1.132	1.00	60.92	ES5
ATOM	37912	N	ARG	E	27	180.369	124.416	1.092	1.00	41.39	ES5
ATOM	37913	CA	ARG	E	27	179.447	125.522	1.215	1.00	41.39	ES5
ATOM	37914	CB	ARG	E	27	179.183	126.080	-0.182	1.00	60.51	ES5
ATOM	37915	CG	ARG	E	27	178.275	127.270	-0.227	1.00	60.51	ES5
ATOM	37916	CD	ARG	E	27	178.379	127.951	-1.568	1.00	60.51	ES5
ATOM	37917	NE	ARG	E	27	179.698	128.544	-1.743	1.00	60.51	ES5
ATOM	37918	CZ	ARG	E	27	180.064	129.249	-2.809	1.00	60.51	ES5
ATOM	37919	NH1	ARG	E	27	179.203	129.450	-3.804	1.00	60.51	ES5
ATOM	37920	NH2	ARG	E	27	181.294	129.754	-2.878	1.00	60.51	ES5
ATOM	37921	C	ARG	E	27	178.171	124.937	1.854	1.00	41.39	ES5
ATOM	37922	O	ARG	E	27	178.024	123.716	1.954	1.00	41.39	ES5
ATOM	37923	N	PHE	E	28	177.260	125.788	2.315	1.00	50.72	ES5
ATOM	37924	CA	PHE	E	28	176.042	125.274	2.929	1.00	50.72	ES5
ATOM	37925	CB	PHE	E	28	176.075	125.453	4.443	1.00	30.15	ES5
ATOM	37926	CG	PHE	E	28	177.190	124.719	5.095	1.00	30.15	ES5
ATOM	37927	CD1	PHE	E	28	178.409	125.351	5.326	1.00	30.15	ES5
ATOM	37928	CD2	PHE	E	28	177.051	123.378	5.414	1.00	30.15	ES5
ATOM	37929	CE1	PHE	E	28	179.474	124.652	5.863	1.00	30.15	ES5
ATOM	37930	CE2	PHE	E	28	178.111	122.668	5.951	1.00	30.15	ES5
ATOM	37931	CZ	PHE	E	28	179.326	123.301	6.177	1.00	30.15	ES5
ATOM	37932	C	PHE	E	28	174.779	125.886	2.391	1.00	50.72	ES5
ATOM	37933	O	PHE	E	28	174.703	127.093	2.137	1.00	50.72	ES5
ATOM	37934	N	GLY	E	29	173.788	125.017	2.226	1.00	47.75	ES5
ATOM	37935	CA	GLY	E	29	172.496	125.426	1.719	1.00	47.75	ES5
ATOM	37936	C	GLY	E	29	171.445	125.054	2.736	1.00	47.75	ES5
ATOM	37937	O	GLY	E	29	171.513	123.976	3.345	1.00	47.75	ES5
ATOM	37938	N	ALA	E	30	170.478	125.952	2.919	1.00	44.80	ES5
ATOM	37939	CA	ALA	E	30	169.411	125.739	3.882	1.00	44.80	ES5
ATOM	37940	CB	ALA	E	30	169.715	126.509	5.176	1.00	42.18	ES5
ATOM	37941	C	ALA	E	30	168.053	126.155	3.333	1.00	44.80	ES5
ATOM	37942	O	ALA	E	30	167.901	127.202	2.691	1.00	44.80	ES5
ATOM	37943	N	LEU	E	31	167.067	125.305	3.580	1.00	45.51	ES5
ATOM	37944	CA	LEU	E	31	165.714	125.586	3.157	1.00	45.51	ES5
ATOM	37945	CB	LEU	E	31	165.034	124.351	2.596	1.00	18.93	ES5
ATOM	37946	CG	LEU	E	31	164.647	124.488	1.134	1.00	18.93	ES5
ATOM	37947	CD1	LEU	E	31	163.418	123.620	0.840	1.00	18.93	ES5
ATOM	37948	CD2	LEU	E	31	164.373	125.950	0.840	1.00	18.93	ES5
ATOM	37949	C	LEU	E	31	164.992	126.002	4.410	1.00	45.51	ES5



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ATOM	37950	O	LEU	E	31	164.957	125.259	5.400	1.00	45.51	ESS
ATOM	37951	N	VAL	E	32	164.420	127.196	4.372	1.00	45.26	ESS
ATOM	37952	CA	VAL	E	32	163.709	127.698	5.523	1.00	45.26	ESS
ATOM	37953	CB	VAL	E	32	164.534	128.803	6.205	1.00	39.23	ESS
ATOM	37954	CG1	VAL	E	32	163.650	129.641	7.096	1.00	39.23	ESS
ATOM	37955	CG2	VAL	E	32	165.648	128.163	7.033	1.00	39.23	ESS
ATOM	37956	C	VAL	E	32	162.297	128.187	5.201	1.00	45.26	ESS
ATOM	37957	O	VAL	E	32	162.078	128.997	4.283	1.00	45.26	ESS
ATOM	37958	N	VAL	E	33	161.339	127.649	5.951	1.00	42.98	ESS
ATOM	37959	CA	VAL	E	33	159.950	128.027	5.786	1.00	42.98	ESS
ATOM	37960	CB	VAL	E	33	159.010	126.816	5.822	1.00	73.38	ESS
ATOM	37961	CG1	VAL	E	33	157.592	127.260	5.515	1.00	73.38	ESS
ATOM	37962	CG2	VAL	E	33	159.456	125.785	4.812	1.00	73.38	ESS
ATOM	37963	C	VAL	E	33	159.621	128.937	6.950	1.00	42.98	ESS
ATOM	37964	O	VAL	E	33	160.070	128.724	8.082	1.00	42.98	ESS
ATOM	37965	N	VAL	E	34	158.850	129.971	6.659	1.00	52.26	ESS
ATOM	37966	CA	VAL	E	34	158.475	130.928	7.671	1.00	52.26	ESS
ATOM	37967	CB	VAL	E	34	159.353	132.168	7.602	1.00	46.03	ESS
ATOM	37968	CG1	VAL	E	34	158.858	133.196	8.581	1.00	46.03	ESS
ATOM	37969	CG2	VAL	E	34	160.781	131.794	7.922	1.00	46.03	ESS
ATOM	37970	C	VAL	E	34	157.039	131.332	7.465	1.00	52.26	ESS
ATOM	37971	O	VAL	E	34	156.655	131.809	6.388	1.00	52.26	ESS
ATOM	37972	N	GLY	E	35	156.251	131.123	8.513	1.00	59.85	ESS
ATOM	37973	CA	GLY	E	35	154.847	131.462	8.474	1.00	59.85	ESS
ATOM	37974	C	GLY	E	35	154.423	132.104	9.775	1.00	59.85	ESS
ATOM	37975	O	GLY	E	35	155.251	132.401	10.638	1.00	59.85	ESS
ATOM	37976	N	ASP	E	36	153.122	132.326	9.905	1.00	54.33	ESS
ATOM	37977	CA	ASP	E	36	152.548	132.925	11.095	1.00	54.33	ESS
ATOM	37978	CB	ASP	E	36	152.104	134.367	10.801	1.00	62.59	ESS
ATOM	37979	CG	ASP	E	36	151.054	134.457	9.688	1.00	62.59	ESS
ATOM	37980	OD1	ASP	E	36	150.688	133.414	9.106	1.00	62.59	ESS
ATOM	37981	OD2	ASP	E	36	150.590	135.584	9.392	1.00	62.59	ESS
ATOM	37982	C	ASP	E	36	151.351	132.074	11.484	1.00	54.33	ESS
ATOM	37983	O	ASP	E	36	150.622	132.387	12.419	1.00	54.33	ESS
ATOM	37984	N	ARG	E	37	151.163	130.986	10.749	1.00	52.06	ESS
ATOM	37985	CA	ARG	E	37	150.047	130.081	10.977	1.00	52.06	ESS
ATOM	37986	CB	ARG	E	37	150.166	129.466	12.364	1.00	53.14	ESS
ATOM	37987	CG	ARG	E	37	151.384	128.579	12.489	1.00	53.14	ESS
ATOM	37988	CD	ARG	E	37	151.642	128.180	13.917	1.00	53.14	ESS
ATOM	37989	NE	ARG	E	37	152.697	127.177	14.022	1.00	53.14	ESS
ATOM	37990	CZ	ARG	E	37	152.524	125.873	13.812	1.00	53.14	ESS
ATOM	37991	NH1	ARG	E	37	151.329	125.396	13.478	1.00	53.14	ESS
ATOM	37992	NH2	ARG	E	37	153.551	125.037	13.949	1.00	53.14	ESS
ATOM	37993	C	ARG	E	37	148.754	130.865	10.839	1.00	52.06	ESS
ATOM	37994	O	ARG	E	37	147.746	130.529	11.441	1.00	52.06	ESS
ATOM	37995	N	GLN	E	38	148.799	131.908	10.019	1.00	54.03	ESS
ATOM	37996	CA	GLN	E	38	147.655	132.775	9.802	1.00	54.03	ESS
ATOM	37997	CB	GLN	E	38	147.936	134.154	10.392	1.00	85.92	ESS
ATOM	37998	CG	GLN	E	38	146.811	134.711	11.213	1.00	85.92	ESS
ATOM	37999	CD	GLN	E	38	146.558	133.856	12.419	1.00	85.92	ESS
ATOM	38000	OE1	GLN	E	38	147.465	133.617	13.213	1.00	85.92	ESS
ATOM	38001	NE2	GLN	E	38	145.328	133.377	12.566	1.00	85.92	ESS
ATOM	38002	C	GLN	E	38	147.370	132.947	8.324	1.00	54.03	ESS
ATOM	38003	O	GLN	E	38	146.760	133.933	7.927	1.00	54.03	ESS
ATOM	38004	N	GLY	E	39	147.817	132.006	7.504	1.00	61.30	ESS
ATOM	38005	CA	GLY	E	39	147.584	132.139	6.078	1.00	61.30	ESS
ATOM	38006	C	GLY	E	39	148.666	132.964	5.394	1.00	61.30	ESS
ATOM	38007	O	GLY	E	39	148.438	133.522	4.313	1.00	61.30	ESS
ATOM	38008	N	ARG	E	40	149.839	133.045	6.029	1.00	48.26	ESS
ATOM	38009	CA	ARG	E	40	150.990	133.778	5.495	1.00	48.26	ESS
ATOM	38010	CB	ARG	E	40	151.196	135.096	6.241	1.00	98.23	ESS
ATOM	38011	CG	ARG	E	40	150.187	136.167	5.930	1.00	98.23	ESS
ATOM	38012	CD	ARG	E	40	150.542	137.478	6.626	1.00	98.23	ESS
ATOM	38013	NE	ARG	E	40	151.818	138.034	6.173	1.00	98.23	ESS
ATOM	38014	CZ	ARG	E	40	152.085	138.390	4.917	1.00	98.23	ESS
ATOM	38015	NH1	ARG	E	40	151.167	138.248	3.969	1.00	98.23	ESS
ATOM	38016	NH2	ARG	E	40	153.272	138.901	4.610	1.00	98.23	ESS
ATOM	38017	C	ARG	E	40	152.285	132.970	5.614	1.00	48.26	ESS
ATOM	38018	O	ARG	E	40	152.838	132.852	6.711	1.00	48.26	ESS
ATOM	38019	N	VAL	E	41	152.768	132.416	4.499	1.00	53.35	ESS
ATOM	38020	CA	VAL	E	41	154.028	131.664	4.505	1.00	53.35	ESS
ATOM	38021	CB	VAL	E	41	153.851	130.163	4.319	1.00	52.74	ESS
ATOM	38022	CG1	VAL	E	41	153.845	129.494	5.658	1.00	52.74	ESS
ATOM	38023	CG2	VAL	E	41	152.582	129.874	3.532	1.00	52.74	ESS
ATOM	38024	C	VAL	E	41	154.974	132.089	3.413	1.00	53.35	ESS
ATOM	38025	O	VAL	E	41	154.553	132.535	2.337	1.00	53.35	ESS
ATOM	38026	N	GLY	E	42	156.259	131.920	3.711	1.00	58.35	ESS



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ATOM	38027	CA	GLY	E	42	157.313	132.266	2.783	1.00	58.35	ES5
ATOM	38028	C	GLY	E	42	158.417	131.235	2.879	1.00	58.35	ES5
ATOM	38029	O	GLY	E	42	158.697	130.699	3.954	1.00	58.35	ES5
ATOM	38030	N	LEU	E	43	159.053	130.963	1.748	1.00	61.15	ES5
ATOM	38031	CA	LEU	E	43	160.121	129.974	1.690	1.00	61.15	ES5
ATOM	38032	CB	LEU	E	43	159.744	128.887	0.701	1.00	29.53	ES5
ATOM	38033	CG	LEU	E	43	160.256	127.504	1.052	1.00	29.53	ES5
ATOM	38034	CD1	LEU	E	43	160.037	126.575	-0.147	1.00	29.53	ES5
ATOM	38035	CD2	LEU	E	43	161.720	127.603	1.459	1.00	29.53	ES5
ATOM	38036	C	LEU	E	43	161.420	130.609	1.240	1.00	61.15	ES5
ATOM	38037	O	LEU	E	43	161.440	131.397	0.301	1.00	61.15	ES5
ATOM	38038	N	GLY	E	44	162.514	130.254	1.888	1.00	48.86	ES5
ATOM	38039	CA	GLY	E	44	163.775	130.846	1.495	1.00	48.86	ES5
ATOM	38040	C	GLY	E	44	164.908	129.847	1.493	1.00	48.86	ES5
ATOM	38041	O	GLY	E	44	165.092	129.082	2.454	1.00	48.86	ES5
ATOM	38042	N	PHE	E	45	165.684	129.854	0.418	1.00	70.66	ES5
ATOM	38043	CA	PHE	E	45	166.792	128.927	0.308	1.00	70.66	ES5
ATOM	38044	CB	PHE	E	45	166.586	128.042	-0.912	1.00	56.04	ES5
ATOM	38045	CG	PHE	E	45	167.646	127.014	-1.087	1.00	56.04	ES5
ATOM	38046	CD1	PHE	E	45	168.019	126.202	-0.018	1.00	56.04	ES5
ATOM	38047	CD2	PHE	E	45	168.281	126.857	-2.312	1.00	56.04	ES5
ATOM	38048	CE1	PHE	E	45	169.013	125.248	-0.164	1.00	56.04	ES5
ATOM	38049	CE2	PHE	E	45	169.275	125.906	-2.469	1.00	56.04	ES5
ATOM	38050	CZ	PHE	E	45	169.645	125.100	-1.392	1.00	56.04	ES5
ATOM	38051	C	PHE	E	45	168.118	129.670	0.215	1.00	70.66	ES5
ATOM	38052	O	PHE	E	45	168.580	130.008	-0.876	1.00	70.66	ES5
ATOM	38053	N	GLY	E	46	168.734	129.901	1.372	1.00	35.05	ES5
ATOM	38054	CA	GLY	E	46	169.991	130.634	1.423	1.00	35.05	ES5
ATOM	38055	C	GLY	E	46	171.254	129.822	1.608	1.00	35.05	ES5
ATOM	38056	O	GLY	E	46	171.290	128.850	2.374	1.00	35.05	ES5
ATOM	38057	N	LYS	E	47	172.300	130.265	0.914	1.00	41.05	ES5
ATOM	38058	CA	LYS	E	47	173.592	129.594	0.926	1.00	41.05	ES5
ATOM	38059	CB	LYS	E	47	173.934	129.142	-0.489	1.00	54.20	ES5
ATOM	38060	CG	LYS	E	47	172.809	128.389	-1.160	1.00	54.20	ES5
ATOM	38061	CD	LYS	E	47	172.576	128.890	-2.561	1.00	54.20	ES5
ATOM	38062	CE	LYS	E	47	171.188	128.495	-3.012	1.00	54.20	ES5
ATOM	38063	NZ	LYS	E	47	170.837	129.060	-4.349	1.00	54.20	ES5
ATOM	38064	C	LYS	E	47	174.691	130.499	1.434	1.00	41.05	ES5
ATOM	38065	O	LYS	E	47	174.622	131.714	1.270	1.00	41.05	ES5
ATOM	38066	N	ALA	E	48	175.709	129.893	2.040	1.00	41.56	ES5
ATOM	38067	CA	ALA	E	48	176.845	130.637	2.575	1.00	41.56	ES5
ATOM	38068	CB	ALA	E	48	176.364	131.644	3.617	1.00	88.84	ES5
ATOM	38069	C	ALA	E	48	177.907	129.714	3.187	1.00	41.56	ES5
ATOM	38070	O	ALA	E	48	177.660	128.524	3.411	1.00	41.56	ES5
ATOM	38071	N	PRO	E	49	179.114	130.254	3.435	1.00	39.19	ES5
ATOM	38072	CD	PRO	E	49	179.520	131.568	2.914	1.00	62.48	ES5
ATOM	38073	CA	PRO	E	49	180.270	129.561	4.018	1.00	39.19	ES5
ATOM	38074	CB	PRO	E	49	181.304	130.677	4.189	1.00	62.48	ES5
ATOM	38075	CG	PRO	E	49	180.518	131.976	3.932	1.00	62.48	ES5
ATOM	38076	C	PRO	E	49	180.047	128.759	5.308	1.00	39.19	ES5
ATOM	38077	O	PRO	E	49	180.626	127.687	5.459	1.00	39.19	ES5
ATOM	38078	N	GLU	E	50	179.236	129.260	6.241	1.00	61.53	ES5
ATOM	38079	CA	GLU	E	50	178.948	128.518	7.480	1.00	61.53	ES5
ATOM	38080	CB	GLU	E	50	179.345	129.323	8.711	1.00	144.06	ES5
ATOM	38081	CG	GLU	E	50	180.799	129.708	8.751	1.00	144.06	ES5
ATOM	38082	CD	GLU	E	50	181.152	130.466	10.011	1.00	144.06	ES5
ATOM	38083	OE1	GLU	E	50	180.425	131.428	10.341	1.00	144.06	ES5
ATOM	38084	OE2	GLU	E	50	182.155	130.104	10.668	1.00	144.06	ES5
ATOM	38085	C	GLU	E	50	177.450	128.241	7.530	1.00	61.53	ES5
ATOM	38086	O	GLU	E	50	176.655	128.988	6.951	1.00	61.53	ES5
ATOM	38087	N	VAL	E	51	177.057	127.183	8.229	1.00	55.24	ES5
ATOM	38088	CA	VAL	E	51	175.635	126.830	8.315	1.00	55.24	ES5
ATOM	38089	CB	VAL	E	51	175.412	125.609	9.236	1.00	36.10	ES5
ATOM	38090	CG1	VAL	E	51	174.029	125.044	9.001	1.00	36.10	ES5
ATOM	38091	CG2	VAL	E	51	176.488	124.547	8.981	1.00	36.10	ES5
ATOM	38092	C	VAL	E	51	174.766	127.995	8.807	1.00	55.24	ES5
ATOM	38093	O	VAL	E	51	173.813	128.401	8.138	1.00	55.24	ES5
ATOM	38094	N	PRO	E	52	175.081	128.540	9.992	1.00	45.99	ES5
ATOM	38095	CD	PRO	E	52	176.062	128.019	10.964	1.00	46.84	ES5
ATOM	38096	CA	PRO	E	52	174.342	129.661	10.575	1.00	45.99	ES5
ATOM	38097	CB	PRO	E	52	175.250	130.091	11.709	1.00	46.84	ES5
ATOM	38098	CG	PRO	E	52	175.695	128.765	12.238	1.00	46.84	ES5
ATOM	38099	C	PRO	E	52	174.046	130.794	9.603	1.00	45.99	ES5
ATOM	38100	O	PRO	E	52	172.887	131.184	9.435	1.00	45.99	ES5
ATOM	38101	N	LEU	E	53	175.085	131.326	8.970	1.00	47.82	ES5
ATOM	38102	CA	LEU	E	53	174.880	132.409	8.012	1.00	47.82	ES5
ATOM	38103	CB	LEU	E	53	176.194	132.793	7.327	1.00	87.10	ES5



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ATOM	38104	CG	LEU	E	53	177.415	133.164	8.170	1.00	87.10	ES5
ATOM	38105	CD1	LEU	E	53	178.534	133.610	7.228	1.00	87.10	ES5
ATOM	38106	CD2	LEU	E	53	177.076	134.270	9.152	1.00	87.10	ES5
ATOM	38107	C	LEU	E	53	173.872	131.972	6.944	1.00	47.82	ES5
ATOM	38108	O	LEU	E	53	173.001	132.750	6.533	1.00	47.82	ES5
ATOM	38109	N	ALA	E	54	173.995	130.722	6.500	1.00	61.30	ES5
ATOM	38110	CA	ALA	E	54	173.102	130.182	5.480	1.00	61.30	ES5
ATOM	38111	CB	ALA	E	54	173.477	128.751	5.166	1.00	46.57	ES5
ATOM	38112	C	ALA	E	54	171.664	130.246	5.963	1.00	61.30	ES5
ATOM	38113	O	ALA	E	54	170.781	130.741	5.258	1.00	61.30	ES5
ATOM	38114	N	VAL	E	55	171.438	129.742	7.173	1.00	41.40	ES5
ATOM	38115	CA	VAL	E	55	170.107	129.745	7.766	1.00	41.40	ES5
ATOM	38116	CB	VAL	E	55	170.135	129.189	9.182	1.00	29.13	ES5
ATOM	38117	CG1	VAL	E	55	168.721	128.835	9.608	1.00	29.13	ES5
ATOM	38118	CG2	VAL	E	55	171.071	127.983	9.249	1.00	29.13	ES5
ATOM	38119	C	VAL	E	55	169.555	131.165	7.841	1.00	41.40	ES5
ATOM	38120	O	VAL	E	55	168.423	131.428	7.435	1.00	41.40	ES5
ATOM	38121	N	GLN	E	56	170.364	132.077	8.376	1.00	39.31	ES5
ATOM	38122	CA	GLN	E	56	169.955	133.467	8.491	1.00	39.31	ES5
ATOM	38123	CB	GLN	E	56	171.090	134.321	9.053	1.00	112.47	ES5
ATOM	38124	CG	GLN	E	56	170.832	134.754	10.481	1.00	112.47	ES5
ATOM	38125	CD	GLN	E	56	170.127	133.672	11.295	1.00	112.47	ES5
ATOM	38126	OE1	GLN	E	56	170.642	132.561	11.451	1.00	112.47	ES5
ATOM	38127	NE2	GLN	E	56	168.938	133.992	11.810	1.00	112.47	ES5
ATOM	38128	C	GLN	E	56	169.557	133.959	7.125	1.00	39.31	ES5
ATOM	38129	O	GLN	E	56	168.421	134.382	6.915	1.00	39.31	ES5
ATOM	38130	N	LYS	E	57	170.490	133.875	6.184	1.00	47.02	ES5
ATOM	38131	CA	LYS	E	57	170.225	134.324	4.824	1.00	47.02	ES5
ATOM	38132	CB	LYS	E	57	171.370	133.896	3.897	1.00	55.81	ES5
ATOM	38133	CG	LYS	E	57	171.598	134.844	2.723	1.00	55.81	ES5
ATOM	38134	CD	LYS	E	57	172.912	134.563	1.990	1.00	55.81	ES5
ATOM	38135	CE	LYS	E	57	174.141	134.942	2.830	1.00	55.81	ES5
ATOM	38136	NZ	LYS	E	57	175.450	134.575	2.183	1.00	55.81	ES5
ATOM	38137	C	LYS	E	57	168.901	133.730	4.358	1.00	47.02	ES5
ATOM	38138	O	LYS	E	57	168.070	134.428	3.774	1.00	47.02	ES5
ATOM	38139	N	ALA	E	58	168.704	132.445	4.658	1.00	50.02	ES5
ATOM	38140	CA	ALA	E	58	167.490	131.719	4.285	1.00	50.02	ES5
ATOM	38141	CB	ALA	E	58	167.605	130.268	4.726	1.00	80.30	ES5
ATOM	38142	C	ALA	E	58	166.220	132.352	4.869	1.00	50.02	ES5
ATOM	38143	O	ALA	E	58	165.232	132.538	4.151	1.00	50.02	ES5
ATOM	38144	N	GLY	E	59	166.243	132.669	6.169	1.00	48.75	ES5
ATOM	38145	CA	GLY	E	59	165.093	133.299	6.799	1.00	48.75	ES5
ATOM	38146	C	GLY	E	59	164.827	134.597	6.061	1.00	48.75	ES5
ATOM	38147	O	GLY	E	59	163.741	134.830	5.523	1.00	48.75	ES5
ATOM	38148	N	TYR	E	60	165.850	135.441	6.018	1.00	53.54	ES5
ATOM	38149	CA	TYR	E	60	165.764	136.719	5.332	1.00	53.54	ES5
ATOM	38150	CB	TYR	E	60	167.168	137.291	5.157	1.00	77.00	ES5
ATOM	38151	CG	TYR	E	60	167.216	138.572	4.362	1.00	77.00	ES5
ATOM	38152	CD1	TYR	E	60	166.668	139.751	4.860	1.00	77.00	ES5
ATOM	38153	CE1	TYR	E	60	166.738	140.939	4.133	1.00	77.00	ES5
ATOM	38154	CD2	TYR	E	60	167.829	138.607	3.118	1.00	77.00	ES5
ATOM	38155	CE2	TYR	E	60	167.906	139.781	2.383	1.00	77.00	ES5
ATOM	38156	CZ	TYR	E	60	167.365	140.949	2.890	1.00	77.00	ES5
ATOM	38157	OH	TYR	E	60	167.491	142.121	2.160	1.00	77.00	ES5
ATOM	38158	C	TYR	E	60	165.087	136.582	3.962	1.00	53.54	ES5
ATOM	38159	O	TYR	E	60	164.150	137.319	3.634	1.00	53.54	ES5
ATOM	38160	N	TYR	E	61	165.568	135.634	3.166	1.00	50.46	ES5
ATOM	38161	CA	TYR	E	61	165.013	135.422	1.841	1.00	50.46	ES5
ATOM	38162	CB	TYR	E	61	165.852	134.418	1.048	1.00	75.28	ES5
ATOM	38163	CG	TYR	E	61	167.139	134.977	0.513	1.00	75.28	ES5
ATOM	38164	CD1	TYR	E	61	167.143	136.098	-0.312	1.00	75.28	ES5
ATOM	38165	CE1	TYR	E	61	168.331	136.627	-0.797	1.00	75.28	ES5
ATOM	38166	CD2	TYR	E	61	168.357	134.394	0.838	1.00	75.28	ES5
ATOM	38167	CE2	TYR	E	61	169.547	134.911	0.359	1.00	75.28	ES5
ATOM	38168	CZ	TYR	E	61	169.530	136.026	-0.454	1.00	75.28	ES5
ATOM	38169	OH	TYR	E	61	170.718	136.540	-0.913	1.00	75.28	ES5
ATOM	38170	C	TYR	E	61	163.589	134.915	1.900	1.00	50.46	ES5
ATOM	38171	O	TYR	E	61	162.797	135.168	0.988	1.00	50.46	ES5
ATOM	38172	N	ALA	E	62	163.261	134.184	2.961	1.00	39.12	ES5
ATOM	38173	CA	ALA	E	62	161.919	133.635	3.077	1.00	39.12	ES5
ATOM	38174	CB	ALA	E	62	161.875	132.561	4.160	1.00	50.19	ES5
ATOM	38175	C	ALA	E	62	160.923	134.737	3.387	1.00	39.12	ES5
ATOM	38176	O	ALA	E	62	159.805	134.745	2.852	1.00	39.12	ES5
ATOM	38177	N	ARG	E	63	161.346	135.673	4.240	1.00	50.18	ES5
ATOM	38178	CA	ARG	E	63	160.490	136.775	4.655	1.00	50.18	ES5
ATOM	38179	CB	ARG	E	63	161.225	137.677	5.632	1.00	66.04	ES5
ATOM	38180	CG	ARG	E	63	160.331	138.074	6.774	1.00	66.04	ES5



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ATOM	38181	CD	ARG	E	63	161.058	137.964	8.091	1.00	66.04	ESS
ATOM	38182	NE	ARG	E	63	161.750	136.689	8.229	1.00	66.04	ESS
ATOM	38183	CZ	ARG	E	63	162.387	136.312	9.332	1.00	66.04	ESS
ATOM	38184	NH1	ARG	E	63	162.415	137.110	10.391	1.00	66.04	ESS
ATOM	38185	NH2	ARG	E	63	163.012	135.145	9.374	1.00	66.04	ESS
ATOM	38186	C	ARG	E	63	160.010	137.554	3.452	1.00	50.18	ESS
ATOM	38187	O	ARG	E	63	158.844	137.924	3.376	1.00	50.18	ESS
ATOM	38188	N	ARG	E	64	160.918	137.808	2.518	1.00	69.44	ESS
ATOM	38189	CA	ARG	E	64	160.569	138.483	1.277	1.00	69.44	ESS
ATOM	38190	CB	ARG	E	64	161.825	139.080	0.658	1.00	116.96	ESS
ATOM	38191	CG	ARG	E	64	162.826	139.482	1.719	1.00	116.96	ESS
ATOM	38192	CD	ARG	E	64	163.609	140.702	1.325	1.00	116.96	ESS
ATOM	38193	NE	ARG	E	64	164.004	141.459	2.509	1.00	116.96	ESS
ATOM	38194	CZ	ARG	E	64	164.541	142.676	2.476	1.00	116.96	ESS
ATOM	38195	NH1	ARG	E	64	164.752	143.280	1.311	1.00	116.96	ESS
ATOM	38196	NH2	ARG	E	64	164.856	143.296	3.609	1.00	116.96	ESS
ATOM	38197	C	ARG	E	64	160.088	137.264	0.497	1.00	69.44	ESS
ATOM	38198	O	ARG	E	64	160.667	136.189	0.645	1.00	69.44	ESS
ATOM	38199	N	ASN	E	65	159.035	137.394	-0.300	1.00	79.43	ESS
ATOM	38200	CA	ASN	E	65	158.507	136.235	-1.031	1.00	79.43	ESS
ATOM	38201	CB	ASN	E	65	159.644	135.309	-1.513	1.00	66.14	ESS
ATOM	38202	CG	ASN	E	65	159.156	133.900	-1.863	1.00	66.14	ESS
ATOM	38203	OD1	ASN	E	65	158.469	133.694	-2.864	1.00	66.14	ESS
ATOM	38204	ND2	ASN	E	65	159.507	132.928	-1.026	1.00	66.14	ESS
ATOM	38205	C	ASN	E	65	157.564	135.449	-0.114	1.00	79.43	ESS
ATOM	38206	O	ASN	E	65	157.898	134.368	0.380	1.00	79.43	ESS
ATOM	38207	N	MET	E	66	156.387	136.013	0.121	1.00	59.93	ESS
ATOM	38208	CA	MET	E	66	155.389	135.371	0.962	1.00	59.93	ESS
ATOM	38209	CB	MET	E	66	154.852	136.366	1.983	1.00	69.38	ESS
ATOM	38210	CG	MET	E	66	155.897	136.939	2.890	1.00	69.38	ESS
ATOM	38211	SD	MET	E	66	156.397	135.737	4.110	1.00	69.38	ESS
ATOM	38212	CE	MET	E	66	155.027	135.843	5.222	1.00	69.38	ESS
ATOM	38213	C	MET	E	66	154.241	134.926	0.067	1.00	59.93	ESS
ATOM	38214	O	MET	E	66	154.190	135.286	-1.114	1.00	59.93	ESS
ATOM	38215	N	VAL	E	67	153.324	134.136	0.611	1.00	63.49	ESS
ATOM	38216	CA	VAL	E	67	152.174	133.720	-0.168	1.00	63.49	ESS
ATOM	38217	CB	VAL	E	67	152.268	132.262	-0.614	1.00	47.79	ESS
ATOM	38218	CG1	VAL	E	67	151.132	131.949	-1.597	1.00	47.79	ESS
ATOM	38219	CG2	VAL	E	67	153.614	131.999	-1.251	1.00	47.79	ESS
ATOM	38220	C	VAL	E	67	150.969	133.875	0.735	1.00	63.49	ESS
ATOM	38221	O	VAL	E	67	151.040	133.579	1.934	1.00	63.49	ESS
ATOM	38222	N	GLU	E	68	149.870	134.355	0.163	1.00	66.03	ESS
ATOM	38223	CA	GLU	E	68	148.649	134.548	0.922	1.00	66.03	ESS
ATOM	38224	CB	GLU	E	68	147.934	135.804	0.432	1.00	147.57	ESS
ATOM	38225	CG	GLU	E	68	147.595	136.754	1.551	1.00	147.57	ESS
ATOM	38226	CD	GLU	E	68	148.725	136.858	2.550	1.00	147.57	ESS
ATOM	38227	OE1	GLU	E	68	149.867	137.147	2.130	1.00	147.57	ESS
ATOM	38228	OE2	GLU	E	68	148.467	136.645	3.751	1.00	147.57	ESS
ATOM	38229	C	GLU	E	68	147.743	133.332	0.773	1.00	66.03	ESS
ATOM	38230	O	GLU	E	68	146.994	133.225	-0.203	1.00	66.03	ESS
ATOM	38231	N	VAL	E	69	147.816	132.419	1.740	1.00	44.34	ESS
ATOM	38232	CA	VAL	E	69	147.003	131.200	1.712	1.00	44.34	ESS
ATOM	38233	CB	VAL	E	69	147.517	130.167	2.712	1.00	69.73	ESS
ATOM	38234	CG1	VAL	E	69	146.652	128.918	2.632	1.00	69.73	ESS
ATOM	38235	CG2	VAL	E	69	148.985	129.858	2.439	1.00	69.73	ESS
ATOM	38236	C	VAL	E	69	145.529	131.443	2.029	1.00	44.34	ESS
ATOM	38237	O	VAL	E	69	145.188	131.941	3.101	1.00	44.34	ESS
ATOM	38238	N	PRO	E	70	144.636	131.078	1.103	1.00	43.64	ESS
ATOM	38239	CD	PRO	E	70	144.950	130.810	-0.306	1.00	58.92	ESS
ATOM	38240	CA	PRO	E	70	143.193	131.259	1.280	1.00	43.64	ESS
ATOM	38241	CB	PRO	E	70	142.654	131.151	-0.142	1.00	58.92	ESS
ATOM	38242	CG	PRO	E	70	143.839	131.529	-0.991	1.00	58.92	ESS
ATOM	38243	C	PRO	E	70	142.542	130.237	2.202	1.00	43.64	ESS
ATOM	38244	O	PRO	E	70	141.605	129.547	1.791	1.00	43.64	ESS
ATOM	38245	N	LEU	E	71	143.023	130.143	3.441	1.00	59.60	ESS
ATOM	38246	CA	LEU	E	71	142.471	129.194	4.409	1.00	59.60	ESS
ATOM	38247	CB	LEU	E	71	143.179	129.350	5.753	1.00	63.02	ESS
ATOM	38248	CG	LEU	E	71	144.686	129.093	5.756	1.00	63.02	ESS
ATOM	38249	CD1	LEU	E	71	145.277	129.496	7.100	1.00	63.02	ESS
ATOM	38250	CD2	LEU	E	71	144.949	127.623	5.466	1.00	63.02	ESS
ATOM	38251	C	LEU	E	71	140.959	129.344	4.623	1.00	59.60	ESS
ATOM	38252	O	LEU	E	71	140.449	130.447	4.783	1.00	59.60	ESS
ATOM	38253	N	GLN	E	72	140.244	128.225	4.606	1.00	48.65	ESS
ATOM	38254	CA	GLN	E	72	138.804	128.219	4.828	1.00	48.65	ESS
ATOM	38255	CB	GLN	E	72	138.051	127.882	3.553	1.00	83.71	ESS
ATOM	38256	CG	GLN	E	72	138.372	128.793	2.405	1.00	83.71	ESS
ATOM	38257	CD	GLN	E	72	137.446	128.550	1.233	1.00	83.71	ESS



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ATOM	38258	OE1	GLN	E	72	137.064	127.408	0.970	1.00	83.71	ES5
ATOM	38259	NE2	GLN	E	72	137.082	129.618	0.515	1.00	83.71	ES5
ATOM	38260	C	GLN	E	72	138.570	127.129	5.854	1.00	48.65	ES5
ATOM	38261	O	GLN	E	72	138.642	125.942	5.536	1.00	48.65	ES5
ATOM	38262	N	ASN	E	73	138.312	127.546	7.088	1.00	68.12	ES5
ATOM	38263	CA	ASN	E	73	138.082	126.623	8.186	1.00	68.12	ES5
ATOM	38264	CB	ASN	E	73	136.797	125.821	7.958	1.00	102.75	ES5
ATOM	38265	CG	ASN	E	73	136.421	124.960	9.163	1.00	102.75	ES5
ATOM	38266	OD1	ASN	E	73	135.477	124.166	9.103	1.00	102.75	ES5
ATOM	38267	ND2	ASN	E	73	137.158	125.118	10.266	1.00	102.75	ES5
ATOM	38268	C	ASN	E	73	139.266	125.675	8.321	1.00	68.12	ES5
ATOM	38269	O	ASN	E	73	139.115	124.455	8.245	1.00	68.12	ES5
ATOM	38270	N	GLY	E	74	140.451	126.240	8.508	1.00	51.47	ES5
ATOM	38271	CA	GLY	E	74	141.637	125.411	8.661	1.00	51.47	ES5
ATOM	38272	C	GLY	E	74	142.032	124.502	7.500	1.00	51.47	ES5
ATOM	38273	O	GLY	E	74	142.966	123.713	7.627	1.00	51.47	ES5
ATOM	38274	N	THR	E	75	141.338	124.600	6.372	1.00	40.39	ES5
ATOM	38275	CA	THR	E	75	141.671	123.765	5.229	1.00	40.39	ES5
ATOM	38276	CB	THR	E	75	140.589	122.736	4.933	1.00	46.42	ES5
ATOM	38277	OG1	THR	E	75	141.148	121.668	4.164	1.00	46.42	ES5
ATOM	38278	CG2	THR	E	75	139.465	123.377	4.135	1.00	46.42	ES5
ATOM	38279	C	THR	E	75	141.862	124.595	3.976	1.00	40.39	ES5
ATOM	38280	O	THR	E	75	142.104	125.798	4.032	1.00	40.39	ES5
ATOM	38281	N	ILE	E	76	141.725	123.946	2.832	1.00	47.62	ES5
ATOM	38282	CA	ILE	E	76	141.941	124.625	1.583	1.00	47.62	ES5
ATOM	38283	CB	ILE	E	76	143.228	124.079	0.961	1.00	49.49	ES5
ATOM	38284	CG2	ILE	E	76	143.048	123.739	-0.492	1.00	49.49	ES5
ATOM	38285	CG1	ILE	E	76	144.329	125.093	1.210	1.00	49.49	ES5
ATOM	38286	CD1	ILE	E	76	145.668	124.637	0.770	1.00	49.49	ES5
ATOM	38287	C	ILE	E	76	140.775	124.579	0.615	1.00	47.62	ES5
ATOM	38288	O	ILE	E	76	140.095	123.564	0.476	1.00	47.62	ES5
ATOM	38289	N	PRO	E	77	140.532	125.702	-0.069	1.00	35.89	ES5
ATOM	38290	CD	PRO	E	77	141.372	126.897	0.069	1.00	33.83	ES5
ATOM	38291	CA	PRO	E	77	139.481	125.940	-1.054	1.00	35.89	ES5
ATOM	38292	CB	PRO	E	77	139.786	127.339	-1.572	1.00	33.83	ES5
ATOM	38293	CG	PRO	E	77	141.241	127.506	-1.312	1.00	33.83	ES5
ATOM	38294	C	PRO	E	77	139.320	124.969	-2.183	1.00	35.89	ES5
ATOM	38295	O	PRO	E	77	138.409	125.150	-2.967	1.00	35.89	ES5
ATOM	38296	N	HIS	E	78	140.191	123.969	-2.294	1.00	39.04	ES5
ATOM	38297	CA	HIS	E	78	140.090	122.944	-3.351	1.00	39.04	ES5
ATOM	38298	CB	HIS	E	78	139.561	123.522	-4.676	1.00	58.31	ES5
ATOM	38299	CG	HIS	E	78	140.462	124.541	-5.302	1.00	58.31	ES5
ATOM	38300	CD2	HIS	E	78	140.301	125.874	-5.495	1.00	58.31	ES5
ATOM	38301	ND1	HIS	E	78	141.711	124.230	-5.794	1.00	58.31	ES5
ATOM	38302	CE1	HIS	E	78	142.281	125.328	-6.260	1.00	58.31	ES5
ATOM	38303	NE2	HIS	E	78	141.448	126.340	-6.090	1.00	58.31	ES5
ATOM	38304	C	HIS	E	78	141.416	122.279	-3.628	1.00	39.04	ES5
ATOM	38305	O	HIS	E	78	142.461	122.771	-3.213	1.00	39.04	ES5
ATOM	38306	N	GLU	E	79	141.374	121.160	-4.345	1.00	48.99	ES5
ATOM	38307	CA	GLU	E	79	142.591	120.427	-4.679	1.00	48.99	ES5
ATOM	38308	CB	GLU	E	79	142.278	118.957	-4.979	1.00	104.77	ES5
ATOM	38309	CG	GLU	E	79	140.805	118.600	-4.929	1.00	104.77	ES5
ATOM	38310	CD	GLU	E	79	140.018	119.152	-6.100	1.00	104.77	ES5
ATOM	38311	OE1	GLU	E	79	140.114	120.367	-6.366	1.00	104.77	ES5
ATOM	38312	OE2	GLU	E	79	139.294	118.371	-6.753	1.00	104.77	ES5
ATOM	38313	C	GLU	E	79	143.302	121.040	-5.872	1.00	48.99	ES5
ATOM	38314	O	GLU	E	79	142.688	121.705	-6.710	1.00	48.99	ES5
ATOM	38315	N	ILE	E	80	144.612	120.835	-5.916	1.00	56.14	ES5
ATOM	38316	CA	ILE	E	80	145.439	121.314	-7.009	1.00	56.14	ES5
ATOM	38317	CB	ILE	E	80	145.988	122.748	-6.786	1.00	52.76	ES5
ATOM	38318	CG2	ILE	E	80	144.976	123.763	-7.180	1.00	52.76	ES5
ATOM	38319	CG1	ILE	E	80	146.415	122.931	-5.345	1.00	52.76	ES5
ATOM	38320	CD1	ILE	E	80	147.699	122.269	-5.037	1.00	52.76	ES5
ATOM	38321	C	ILE	E	80	146.622	120.390	-7.110	1.00	56.14	ES5
ATOM	38322	O	ILE	E	80	147.010	119.759	-6.126	1.00	56.14	ES5
ATOM	38323	N	GLU	E	81	147.181	120.297	-8.306	1.00	50.39	ES5
ATOM	38324	CA	GLU	E	81	148.353	119.477	-8.533	1.00	50.39	ES5
ATOM	38325	CB	GLU	E	81	148.041	118.327	-9.480	1.00	154.72	ES5
ATOM	38326	CG	GLU	E	81	147.238	117.230	-8.830	1.00	154.72	ES5
ATOM	38327	CD	GLU	E	81	146.923	116.106	-9.786	1.00	154.72	ES5
ATOM	38328	OE1	GLU	E	81	147.857	115.639	-10.472	1.00	154.72	ES5
ATOM	38329	OE2	GLU	E	81	145.745	115.688	-9.845	1.00	154.72	ES5
ATOM	38330	C	GLU	E	81	149.341	120.419	-9.162	1.00	50.39	ES5
ATOM	38331	O	GLU	E	81	148.970	121.265	-9.973	1.00	50.39	ES5
ATOM	38332	N	VAL	E	82	150.600	120.295	-8.779	1.00	49.81	ES5
ATOM	38333	CA	VAL	E	82	151.601	121.170	-9.329	1.00	49.81	ES5
ATOM	38334	CB	VAL	E	82	151.839	122.350	-8.427	1.00	27.32	ES5



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ATOM	38335	CG1	VAL	E	82	153.136	123.035	-8.811	1.00	27.32	ES5
ATOM	38336	CG2	VAL	E	82	150.680	123.317	-8.543	1.00	27.32	ES5
ATOM	38337	C	VAL	E	82	152.920	120.487	-9.547	1.00	49.81	ES5
ATOM	38338	O	VAL	E	82	153.497	119.906	-8.625	1.00	49.81	ES5
ATOM	38339	N	GLU	E	83	153.398	120.577	-10.780	1.00	60.91	ES5
ATOM	38340	CA	GLU	E	83	154.671	119.998	-11.148	1.00	60.91	ES5
ATOM	38341	CB	GLU	E	83	154.574	119.341	-12.524	1.00	104.48	ES5
ATOM	38342	CG	GLU	E	83	153.729	118.085	-12.545	1.00	104.48	ES5
ATOM	38343	CD	GLU	E	83	153.693	117.423	-13.913	1.00	104.48	ES5
ATOM	38344	OE1	GLU	E	83	154.770	117.275	-14.534	1.00	104.48	ES5
ATOM	38345	OE2	GLU	E	83	152.589	117.038	-14.362	1.00	104.48	ES5
ATOM	38346	C	GLU	E	83	155.696	121.121	-11.188	1.00	60.91	ES5
ATOM	38347	O	GLU	E	83	155.441	122.188	-11.740	1.00	60.91	ES5
ATOM	38348	N	PHE	E	84	156.844	120.884	-10.575	1.00	53.40	ES5
ATOM	38349	CA	PHE	E	84	157.930	121.851	-10.565	1.00	53.40	ES5
ATOM	38350	CB	PHE	E	84	158.106	122.454	-9.185	1.00	46.27	ES5
ATOM	38351	CG	PHE	E	84	159.185	123.482	-9.114	1.00	46.27	ES5
ATOM	38352	CD1	PHE	E	84	158.909	124.816	-9.383	1.00	46.27	ES5
ATOM	38353	CD2	PHE	E	84	160.481	123.124	-8.762	1.00	46.27	ES5
ATOM	38354	CE1	PHE	E	84	159.910	125.793	-9.300	1.00	46.27	ES5
ATOM	38355	CE2	PHE	E	84	161.491	124.092	-8.677	1.00	46.27	ES5
ATOM	38356	CZ	PHE	E	84	161.198	125.435	-8.947	1.00	46.27	ES5
ATOM	38357	C	PHE	E	84	159.137	121.000	-10.894	1.00	53.40	ES5
ATOM	38358	O	PHE	E	84	159.795	120.463	-9.989	1.00	53.40	ES5
ATOM	38359	N	GLY	E	85	159.415	120.871	-12.191	1.00	31.56	ES5
ATOM	38360	CA	GLY	E	85	160.518	120.037	-12.628	1.00	31.56	ES5
ATOM	38361	C	GLY	E	85	159.985	118.623	-12.596	1.00	31.56	ES5
ATOM	38362	O	GLY	E	85	158.828	118.381	-12.952	1.00	31.56	ES5
ATOM	38363	N	ALA	E	86	160.804	117.682	-12.156	1.00	45.62	ES5
ATOM	38364	CA	ALA	E	86	160.348	116.303	-12.095	1.00	45.62	ES5
ATOM	38365	CB	ALA	E	86	161.538	115.364	-12.116	1.00	119.13	ES5
ATOM	38366	C	ALA	E	86	159.522	116.082	-10.834	1.00	45.62	ES5
ATOM	38367	O	ALA	E	86	158.995	114.993	-10.601	1.00	45.62	ES5
ATOM	38368	N	SER	E	87	159.411	117.127	-10.023	1.00	51.25	ES5
ATOM	38369	CA	SER	E	87	158.655	117.051	-8.784	1.00	51.25	ES5
ATOM	38370	CB	SER	E	87	159.286	117.966	-7.746	1.00	47.55	ES5
ATOM	38371	OG	SER	E	87	160.676	117.721	-7.678	1.00	47.55	ES5
ATOM	38372	C	SER	E	87	157.215	117.465	-9.024	1.00	51.25	ES5
ATOM	38373	O	SER	E	87	156.947	118.452	-9.707	1.00	51.25	ES5
ATOM	38374	N	LYS	E	88	156.289	116.707	-8.459	1.00	44.15	ES5
ATOM	38375	CA	LYS	E	88	154.874	117.004	-8.611	1.00	44.15	ES5
ATOM	38376	CB	LYS	E	88	154.230	116.006	-9.566	1.00	43.10	ES5
ATOM	38377	CG	LYS	E	88	152.777	116.269	-9.870	1.00	43.10	ES5
ATOM	38378	CD	LYS	E	88	152.214	115.190	-10.800	1.00	43.10	ES5
ATOM	38379	CE	LYS	E	88	150.756	115.459	-11.185	1.00	43.10	ES5
ATOM	38380	NZ	LYS	E	88	150.164	114.369	-12.011	1.00	43.10	ES5
ATOM	38381	C	LYS	E	88	154.235	116.895	-7.238	1.00	44.15	ES5
ATOM	38382	O	LYS	E	88	154.456	115.928	-6.513	1.00	44.15	ES5
ATOM	38383	N	ILE	E	89	153.446	117.891	-6.873	1.00	36.17	ES5
ATOM	38384	CA	ILE	E	89	152.804	117.875	-5.576	1.00	36.17	ES5
ATOM	38385	CB	ILE	E	89	153.196	119.147	-4.767	1.00	30.32	ES5
ATOM	38386	CG2	ILE	E	89	152.164	120.249	-4.972	1.00	30.32	ES5
ATOM	38387	CG1	ILE	E	89	153.448	118.783	-3.292	1.00	30.32	ES5
ATOM	38388	CD1	ILE	E	89	152.317	118.088	-2.605	1.00	30.32	ES5
ATOM	38389	C	ILE	E	89	151.292	117.784	-5.751	1.00	36.17	ES5
ATOM	38390	O	ILE	E	89	150.735	118.161	-6.785	1.00	36.17	ES5
ATOM	38391	N	VAL	E	90	150.628	117.262	-4.738	1.00	54.13	ES5
ATOM	38392	CA	VAL	E	90	149.196	117.129	-4.797	1.00	54.13	ES5
ATOM	38393	CB	VAL	E	90	148.801	115.704	-5.095	1.00	26.43	ES5
ATOM	38394	CG1	VAL	E	90	147.414	115.442	-4.568	1.00	26.43	ES5
ATOM	38395	CG2	VAL	E	90	148.838	115.479	-6.586	1.00	26.43	ES5
ATOM	38396	C	VAL	E	90	148.567	117.546	-3.493	1.00	54.13	ES5
ATOM	38397	O	VAL	E	90	148.857	116.981	-2.429	1.00	54.13	ES5
ATOM	38398	N	LEU	E	91	147.691	118.536	-3.594	1.00	46.57	ES5
ATOM	38399	CA	LEU	E	91	146.995	119.062	-2.440	1.00	46.57	ES5
ATOM	38400	CB	LEU	E	91	147.239	120.559	-2.337	1.00	25.40	ES5
ATOM	38401	CG	LEU	E	91	148.707	120.966	-2.174	1.00	25.40	ES5
ATOM	38402	CD1	LEU	E	91	148.802	122.491	-2.039	1.00	25.40	ES5
ATOM	38403	CD2	LEU	E	91	149.299	120.263	-0.940	1.00	25.40	ES5
ATOM	38404	C	LEU	E	91	145.505	118.786	-2.550	1.00	46.57	ES5
ATOM	38405	O	LEU	E	91	144.866	119.103	-3.559	1.00	46.57	ES5
ATOM	38406	N	LYS	E	92	144.960	118.183	-1.503	1.00	54.69	ES5
ATOM	38407	CA	LYS	E	92	143.545	117.861	-1.459	1.00	54.69	ES5
ATOM	38408	CB	LYS	E	92	143.357	116.372	-1.678	1.00	56.72	ES5
ATOM	38409	CG	LYS	E	92	141.962	115.976	-2.018	1.00	56.72	ES5
ATOM	38410	CD	LYS	E	92	141.919	114.501	-2.298	1.00	56.72	ES5
ATOM	38411	CE	LYS	E	92	140.565	114.098	-2.814	1.00	56.72	ES5



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ATOM	38412	NZ	LYS	E	92	140.526	112.639	-3.079	1.00	56.72	ES5
ATOM	38413	C	LYS	E	92	143.040	118.269	-0.079	1.00	54.69	ES5
ATOM	38414	O	LYS	E	92	143.645	117.932	0.950	1.00	54.69	ES5
ATOM	38415	N	PRO	E	93	141.928	119.014	-0.040	1.00	36.99	ES5
ATOM	38416	CD	PRO	E	93	141.202	119.464	-1.239	1.00	26.94	ES5
ATOM	38417	CA	PRO	E	93	141.284	119.516	1.182	1.00	36.99	ES5
ATOM	38418	CB	PRO	E	93	140.325	120.568	0.642	1.00	26.94	ES5
ATOM	38419	CG	PRO	E	93	139.894	119.959	-0.660	1.00	26.94	ES5
ATOM	38420	C	PRO	E	93	140.575	118.454	2.016	1.00	36.99	ES5
ATOM	38421	O	PRO	E	93	140.025	117.496	1.473	1.00	36.99	ES5
ATOM	38422	N	ALA	E	94	140.580	118.625	3.334	1.00	63.14	ES5
ATOM	38423	CA	ALA	E	94	139.931	117.651	4.206	1.00	63.14	ES5
ATOM	38424	CB	ALA	E	94	140.969	116.725	4.814	1.00	66.26	ES5
ATOM	38425	C	ALA	E	94	139.102	118.270	5.317	1.00	63.14	ES5
ATOM	38426	O	ALA	E	94	139.404	119.369	5.796	1.00	63.14	ES5
ATOM	38427	N	ALA	E	95	138.059	117.545	5.723	1.00	43.77	ES5
ATOM	38428	CA	ALA	E	95	137.177	117.983	6.794	1.00	43.77	ES5
ATOM	38429	CB	ALA	E	95	136.001	117.053	6.896	1.00	41.58	ES5
ATOM	38430	C	ALA	E	95	137.973	117.969	8.094	1.00	43.77	ES5
ATOM	38431	O	ALA	E	95	138.938	117.223	8.225	1.00	43.77	ES5
ATOM	38432	N	PRO	E	96	137.578	118.794	9.070	1.00	46.71	ES5
ATOM	38433	CD	PRO	E	96	136.430	119.704	8.976	1.00	40.08	ES5
ATOM	38434	CA	PRO	E	96	138.222	118.920	10.384	1.00	46.71	ES5
ATOM	38435	CB	PRO	E	96	137.255	119.807	11.149	1.00	40.08	ES5
ATOM	38436	CG	PRO	E	96	136.727	120.678	10.087	1.00	40.08	ES5
ATOM	38437	C	PRO	E	96	138.461	117.604	11.114	1.00	46.71	ES5
ATOM	38438	O	PRO	E	96	137.615	116.711	11.087	1.00	46.71	ES5
ATOM	38439	N	GLY	E	97	139.605	117.495	11.779	1.00	67.81	ES5
ATOM	38440	CA	GLY	E	97	139.894	116.278	12.513	1.00	67.81	ES5
ATOM	38441	C	GLY	E	97	140.608	115.269	11.646	1.00	67.81	ES5
ATOM	38442	O	GLY	E	97	140.677	114.075	11.958	1.00	67.81	ES5
ATOM	38443	N	THR	E	98	141.133	115.759	10.534	1.00	36.06	ES5
ATOM	38444	CA	THR	E	98	141.872	114.912	9.612	1.00	36.06	ES5
ATOM	38445	CB	THR	E	98	141.614	115.344	8.133	1.00	33.81	ES5
ATOM	38446	OG1	THR	E	98	140.299	114.929	7.725	1.00	33.81	ES5
ATOM	38447	CG2	THR	E	98	142.646	114.737	7.206	1.00	33.81	ES5
ATOM	38448	C	THR	E	98	143.353	115.081	9.950	1.00	36.06	ES5
ATOM	38449	O	THR	E	98	144.127	114.120	9.927	1.00	36.06	ES5
ATOM	38450	N	GLY	E	99	143.719	116.319	10.278	1.00	63.52	ES5
ATOM	38451	CA	GLY	E	99	145.095	116.655	10.597	1.00	63.52	ES5
ATOM	38452	C	GLY	E	99	145.838	117.071	9.337	1.00	63.52	ES5
ATOM	38453	O	GLY	E	99	145.225	117.386	8.305	1.00	63.52	ES5
ATOM	38454	N	VAL	E	100	147.163	117.086	9.411	1.00	58.91	ES5
ATOM	38455	CA	VAL	E	100	147.968	117.439	8.250	1.00	58.91	ES5
ATOM	38456	CB	VAL	E	100	149.055	118.440	8.596	1.00	53.66	ES5
ATOM	38457	CG1	VAL	E	100	149.593	119.043	7.325	1.00	53.66	ES5
ATOM	38458	CG2	VAL	E	100	148.509	119.503	9.533	1.00	53.66	ES5
ATOM	38459	C	VAL	E	100	148.647	116.171	7.769	1.00	58.91	ES5
ATOM	38460	O	VAL	E	100	149.640	115.723	8.347	1.00	58.91	ES5
ATOM	38461	N	ILE	E	101	148.105	115.587	6.712	1.00	35.34	ES5
ATOM	38462	CA	ILE	E	101	148.660	114.361	6.165	1.00	35.34	ES5
ATOM	38463	CB	ILE	E	101	147.511	113.440	5.796	1.00	47.29	ES5
ATOM	38464	CG2	ILE	E	101	148.002	112.205	5.063	1.00	47.29	ES5
ATOM	38465	CG1	ILE	E	101	146.779	113.108	7.094	1.00	47.29	ES5
ATOM	38466	CD1	ILE	E	101	145.647	112.134	6.939	1.00	47.29	ES5
ATOM	38467	C	ILE	E	101	149.590	114.651	4.980	1.00	35.34	ES5
ATOM	38468	O	ILE	E	101	149.159	114.829	3.834	1.00	35.34	ES5
ATOM	38469	N	ALA	E	102	150.884	114.696	5.269	1.00	36.03	ES5
ATOM	38470	CA	ALA	E	102	151.833	115.010	4.233	1.00	36.03	ES5
ATOM	38471	CB	ALA	E	102	151.713	116.475	3.906	1.00	36.78	ES5
ATOM	38472	C	ALA	E	102	153.275	114.681	4.594	1.00	36.03	ES5
ATOM	38473	O	ALA	E	102	153.593	114.347	5.736	1.00	36.03	ES5
ATOM	38474	N	GLY	E	103	154.145	114.783	3.594	1.00	52.85	ES5
ATOM	38475	CA	GLY	E	103	155.548	114.521	3.819	1.00	52.85	ES5
ATOM	38476	C	GLY	E	103	156.153	115.641	4.638	1.00	52.85	ES5
ATOM	38477	O	GLY	E	103	155.646	116.762	4.643	1.00	52.85	ES5
ATOM	38478	N	ALA	E	104	157.251	115.344	5.321	1.00	46.64	ES5
ATOM	38479	CA	ALA	E	104	157.922	116.323	6.166	1.00	46.64	ES5
ATOM	38480	CB	ALA	E	104	159.215	115.737	6.695	1.00	89.28	ES5
ATOM	38481	C	ALA	E	104	158.193	117.681	5.523	1.00	46.64	ES5
ATOM	38482	O	ALA	E	104	158.383	118.664	6.230	1.00	46.64	ES5
ATOM	38483	N	VAL	E	105	158.226	117.760	4.198	1.00	40.99	ES5
ATOM	38484	CA	VAL	E	105	158.474	119.057	3.582	1.00	40.99	ES5
ATOM	38485	CB	VAL	E	105	159.309	118.933	2.281	1.00	29.81	ES5
ATOM	38486	CG1	VAL	E	105	158.966	120.062	1.284	1.00	29.81	ES5
ATOM	38487	CG2	VAL	E	105	160.786	119.010	2.637	1.00	29.81	ES5
ATOM	38488	C	VAL	E	105	157.193	119.825	3.310	1.00	40.99	ES5



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ATOM	38489	O	VAL	E	105	157.038	120.946	3.796	1.00	40.99	ES5
ATOM	38490	N	PRO	E	106	156.252	119.237	2.543	1.00	54.60	ES5
ATOM	38491	CD	PRO	E	106	156.211	117.870	2.004	1.00	54.19	ES5
ATOM	38492	CA	PRO	E	106	154.998	119.941	2.253	1.00	54.60	ES5
ATOM	38493	CB	PRO	E	106	154.208	118.944	1.405	1.00	54.19	ES5
ATOM	38494	CG	PRO	E	106	155.232	118.025	0.868	1.00	54.19	ES5
ATOM	38495	C	PRO	E	106	154.286	120.238	3.563	1.00	54.60	ES5
ATOM	38496	O	PRO	E	106	153.507	121.190	3.650	1.00	54.60	ES5
ATOM	38497	N	ARG	E	107	154.553	119.413	4.577	1.00	50.54	ES5
ATOM	38498	CA	ARG	E	107	153.944	119.596	5.890	1.00	50.54	ES5
ATOM	38499	CB	ARG	E	107	154.276	118.430	6.814	1.00	73.93	ES5
ATOM	38500	CG	ARG	E	107	154.326	118.847	8.272	1.00	73.93	ES5
ATOM	38501	CD	ARG	E	107	154.668	117.696	9.177	1.00	73.93	ES5
ATOM	38502	NE	ARG	E	107	153.564	116.749	9.261	1.00	73.93	ES5
ATOM	38503	CZ	ARG	E	107	153.650	115.474	8.902	1.00	73.93	ES5
ATOM	38504	NH1	ARG	E	107	154.800	114.992	8.429	1.00	73.93	ES5
ATOM	38505	NH2	ARG	E	107	152.589	114.684	9.019	1.00	73.93	ES5
ATOM	38506	C	ARG	E	107	154.437	120.881	6.536	1.00	50.54	ES5
ATOM	38507	O	ARG	E	107	153.653	121.769	6.874	1.00	50.54	ES5
ATOM	38508	N	ALA	E	108	155.747	120.963	6.716	1.00	38.40	ES5
ATOM	38509	CA	ALA	E	108	156.357	122.132	7.325	1.00	38.40	ES5
ATOM	38510	CB	ALA	E	108	157.877	122.080	7.158	1.00	53.87	ES5
ATOM	38511	C	ALA	E	108	155.803	123.406	6.702	1.00	38.40	ES5
ATOM	38512	O	ALA	E	108	155.542	124.383	7.398	1.00	38.40	ES5
ATOM	38513	N	ILE	E	109	155.627	123.402	5.389	1.00	40.60	ES5
ATOM	38514	CA	ILE	E	109	155.097	124.574	4.715	1.00	40.60	ES5
ATOM	38515	CB	ILE	E	109	155.177	124.399	3.208	1.00	34.41	ES5
ATOM	38516	CG2	ILE	E	109	154.460	125.544	2.498	1.00	34.41	ES5
ATOM	38517	CG1	ILE	E	109	156.646	124.302	2.811	1.00	34.41	ES5
ATOM	38518	CD1	ILE	E	109	156.849	123.873	1.389	1.00	34.41	ES5
ATOM	38519	C	ILE	E	109	153.647	124.751	5.127	1.00	40.60	ES5
ATOM	38520	O	ILE	E	109	153.266	125.782	5.678	1.00	40.60	ES5
ATOM	38521	N	LEU	E	110	152.847	123.728	4.865	1.00	44.18	ES5
ATOM	38522	CA	LEU	E	110	151.437	123.743	5.206	1.00	44.18	ES5
ATOM	38523	CB	LEU	E	110	150.845	122.379	4.891	1.00	15.82	ES5
ATOM	38524	CG	LEU	E	110	150.835	122.267	3.375	1.00	15.82	ES5
ATOM	38525	CD1	LEU	E	110	150.341	120.878	2.965	1.00	15.82	ES5
ATOM	38526	CD2	LEU	E	110	149.968	123.411	2.792	1.00	15.82	ES5
ATOM	38527	C	LEU	E	110	151.125	124.135	6.652	1.00	44.18	ES5
ATOM	38528	O	LEU	E	110	150.183	124.895	6.896	1.00	44.18	ES5
ATOM	38529	N	GLU	E	111	151.896	123.620	7.608	1.00	48.50	ES5
ATOM	38530	CA	GLU	E	111	151.661	123.959	9.004	1.00	48.50	ES5
ATOM	38531	CB	GLU	E	111	152.590	123.153	9.906	1.00	130.16	ES5
ATOM	38532	CG	GLU	E	111	152.433	121.657	9.684	1.00	130.16	ES5
ATOM	38533	CD	GLU	E	111	153.055	120.817	10.783	1.00	130.16	ES5
ATOM	38534	OE1	GLU	E	111	154.265	120.978	11.058	1.00	130.16	ES5
ATOM	38535	OE2	GLU	E	111	152.327	119.985	11.369	1.00	130.16	ES5
ATOM	38536	C	GLU	E	111	151.836	125.466	9.220	1.00	48.50	ES5
ATOM	38537	O	GLU	E	111	150.915	126.138	9.685	1.00	48.50	ES5
ATOM	38538	N	LEU	E	112	152.989	126.018	8.860	1.00	35.03	ES5
ATOM	38539	CA	LEU	E	112	153.180	127.448	9.042	1.00	35.03	ES5
ATOM	38540	CB	LEU	E	112	154.584	127.887	8.674	1.00	26.03	ES5
ATOM	38541	CG	LEU	E	112	155.733	127.246	9.436	1.00	26.03	ES5
ATOM	38542	CD1	LEU	E	112	156.761	128.327	9.701	1.00	26.03	ES5
ATOM	38543	CD2	LEU	E	112	155.262	126.640	10.756	1.00	26.03	ES5
ATOM	38544	C	LEU	E	112	152.225	128.234	8.188	1.00	35.03	ES5
ATOM	38545	O	LEU	E	112	152.058	129.429	8.393	1.00	35.03	ES5
ATOM	38546	N	ALA	E	113	151.610	127.594	7.207	1.00	47.86	ES5
ATOM	38547	CA	ALA	E	113	150.681	128.326	6.363	1.00	47.86	ES5
ATOM	38548	CB	ALA	E	113	150.414	127.555	5.080	1.00	98.11	ES5
ATOM	38549	C	ALA	E	113	149.400	128.498	7.156	1.00	47.86	ES5
ATOM	38550	O	ALA	E	113	148.444	129.129	6.700	1.00	47.86	ES5
ATOM	38551	N	GLY	E	114	149.388	127.939	8.360	1.00	57.90	ES5
ATOM	38552	CA	GLY	E	114	148.203	128.032	9.181	1.00	57.90	ES5
ATOM	38553	C	GLY	E	114	147.193	126.991	8.733	1.00	57.90	ES5
ATOM	38554	O	GLY	E	114	146.009	127.057	9.082	1.00	57.90	ES5
ATOM	38555	N	VAL	E	115	147.639	126.030	7.933	1.00	43.80	ES5
ATOM	38556	CA	VAL	E	115	146.727	124.988	7.498	1.00	43.80	ES5
ATOM	38557	CB	VAL	E	115	147.209	124.261	6.237	1.00	27.06	ES5
ATOM	38558	CG1	VAL	E	115	146.314	123.066	5.994	1.00	27.06	ES5
ATOM	38559	CG2	VAL	E	115	147.158	125.187	5.027	1.00	27.06	ES5
ATOM	38560	C	VAL	E	115	146.647	123.979	8.625	1.00	43.80	ES5
ATOM	38561	O	VAL	E	115	147.582	123.825	9.407	1.00	43.80	ES5
ATOM	38562	N	THR	E	116	145.534	123.278	8.708	1.00	47.94	ES5
ATOM	38563	CA	THR	E	116	145.389	122.327	9.777	1.00	47.94	ES5
ATOM	38564	CB	THR	E	116	144.612	122.961	10.908	1.00	44.55	ES5
ATOM	38565	OG1	THR	E	116	144.902	122.262	12.123	1.00	44.55	ES5



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ATOM	38566	CG2	THR	E	116	143.110	122.910	10.607	1.00	44.55	ES5
ATOM	38567	C	THR	E	116	144.703	121.030	9.354	1.00	47.94	ES5
ATOM	38568	O	THR	E	116	144.581	120.095	10.151	1.00	47.94	ES5
ATOM	38569	N	ASP	E	117	144.256	120.975	8.104	1.00	43.16	ES5
ATOM	38570	CA	ASP	E	117	143.607	119.783	7.591	1.00	43.16	ES5
ATOM	38571	CB	ASP	E	117	142.123	119.782	7.977	1.00	99.40	ES5
ATOM	38572	CG	ASP	E	117	141.894	119.435	9.447	1.00	99.40	ES5
ATOM	38573	OD1	ASP	E	117	141.902	118.234	9.796	1.00	99.40	ES5
ATOM	38574	OD2	ASP	E	117	141.709	120.365	10.260	1.00	99.40	ES5
ATOM	38575	C	ASP	E	117	143.743	119.644	6.081	1.00	43.16	ES5
ATOM	38576	O	ASP	E	117	143.099	120.379	5.331	1.00	43.16	ES5
ATOM	38577	N	ILE	E	118	144.611	118.723	5.650	1.00	41.73	ES5
ATOM	38578	CA	ILE	E	118	144.800	118.411	4.225	1.00	41.73	ES5
ATOM	38579	CB	ILE	E	118	145.817	119.292	3.479	1.00	51.44	ES5
ATOM	38580	CG2	ILE	E	118	145.132	120.053	2.345	1.00	51.44	ES5
ATOM	38581	CG1	ILE	E	118	146.574	120.176	4.444	1.00	51.44	ES5
ATOM	38582	CD1	ILE	E	118	147.483	121.122	3.701	1.00	51.44	ES5
ATOM	38583	C	ILE	E	118	145.327	117.016	3.988	1.00	41.73	ES5
ATOM	38584	O	ILE	E	118	145.987	116.427	4.851	1.00	41.73	ES5
ATOM	38585	N	LEU	E	119	145.024	116.519	2.791	1.00	62.16	ES5
ATOM	38586	CA	LEU	E	119	145.476	115.223	2.305	1.00	62.16	ES5
ATOM	38587	CB	LEU	E	119	144.331	114.453	1.662	1.00	40.34	ES5
ATOM	38588	CG	LEU	E	119	143.227	114.163	2.666	1.00	40.34	ES5
ATOM	38589	CD1	LEU	E	119	142.171	113.273	2.042	1.00	40.34	ES5
ATOM	38590	CD2	LEU	E	119	143.839	113.499	3.883	1.00	40.34	ES5
ATOM	38591	C	LEU	E	119	146.494	115.625	1.253	1.00	62.16	ES5
ATOM	38592	O	LEU	E	119	146.194	116.433	0.364	1.00	62.16	ES5
ATOM	38593	N	THR	E	120	147.692	115.059	1.352	1.00	37.91	ES5
ATOM	38594	CA	THR	E	120	148.777	115.413	0.459	1.00	37.91	ES5
ATOM	38595	CB	THR	E	120	149.863	116.087	1.269	1.00	35.37	ES5
ATOM	38596	OG1	THR	E	120	149.910	117.463	0.893	1.00	35.37	ES5
ATOM	38597	CG2	THR	E	120	151.241	115.390	1.073	1.00	35.37	ES5
ATOM	38598	C	THR	E	120	149.394	114.248	-0.255	1.00	37.91	ES5
ATOM	38599	O	THR	E	120	149.161	113.113	0.123	1.00	37.91	ES5
ATOM	38600	N	LYS	E	121	150.197	114.522	-1.278	1.00	58.86	ES5
ATOM	38601	CA	LYS	E	121	150.880	113.438	-1.971	1.00	58.86	ES5
ATOM	38602	CB	LYS	E	121	149.876	112.600	-2.765	1.00	47.70	ES5
ATOM	38603	CG	LYS	E	121	150.471	111.324	-3.348	1.00	47.70	ES5
ATOM	38604	CD	LYS	E	121	151.456	110.684	-2.398	1.00	47.70	ES5
ATOM	38605	CE	LYS	E	121	151.901	109.366	-2.958	1.00	47.70	ES5
ATOM	38606	NZ	LYS	E	121	153.115	108.841	-2.284	1.00	47.70	ES5
ATOM	38607	C	LYS	E	121	152.024	113.875	-2.876	1.00	58.86	ES5
ATOM	38608	O	LYS	E	121	151.820	114.619	-3.838	1.00	58.86	ES5
ATOM	38609	N	GLU	E	122	153.229	113.408	-2.552	1.00	48.33	ES5
ATOM	38610	CA	GLU	E	122	154.416	113.734	-3.339	1.00	48.33	ES5
ATOM	38611	CB	GLU	E	122	155.686	113.674	-2.470	1.00	76.25	ES5
ATOM	38612	CG	GLU	E	122	156.008	114.949	-1.690	1.00	76.25	ES5
ATOM	38613	CD	GLU	E	122	157.150	114.780	-0.678	1.00	76.25	ES5
ATOM	38614	OE1	GLU	E	122	158.321	114.586	-1.079	1.00	76.25	ES5
ATOM	38615	OE2	GLU	E	122	156.873	114.844	0.539	1.00	76.25	ES5
ATOM	38616	C	GLU	E	122	154.547	112.740	-4.488	1.00	48.33	ES5
ATOM	38617	O	GLU	E	122	154.830	111.558	-4.277	1.00	48.33	ES5
ATOM	38618	N	LEU	E	123	154.331	113.210	-5.706	1.00	43.05	ES5
ATOM	38619	CA	LEU	E	123	154.451	112.338	-6.855	1.00	43.05	ES5
ATOM	38620	CB	LEU	E	123	153.171	112.362	-7.665	1.00	36.60	ES5
ATOM	38621	CG	LEU	E	123	152.058	111.545	-7.027	1.00	36.60	ES5
ATOM	38622	CD1	LEU	E	123	151.045	111.163	-8.108	1.00	36.60	ES5
ATOM	38623	CD2	LEU	E	123	152.632	110.283	-6.385	1.00	36.60	ES5
ATOM	38624	C	LEU	E	123	155.603	112.778	-7.723	1.00	43.05	ES5
ATOM	38625	O	LEU	E	123	155.817	113.974	-7.896	1.00	43.05	ES5
ATOM	38626	N	GLY	E	124	156.347	111.821	-8.274	1.00	37.67	ES5
ATOM	38627	CA	GLY	E	124	157.473	112.168	-9.129	1.00	37.67	ES5
ATOM	38628	C	GLY	E	124	158.745	112.408	-8.335	1.00	37.67	ES5
ATOM	38629	O	GLY	E	124	158.916	111.862	-7.240	1.00	37.67	ES5
ATOM	38630	N	SER	E	125	159.646	113.224	-8.870	1.00	47.72	ES5
ATOM	38631	CA	SER	E	125	160.888	113.504	-8.168	1.00	47.72	ES5
ATOM	38632	CB	SER	E	125	161.700	114.559	-8.900	1.00	62.04	ES5
ATOM	38633	OG	SER	E	125	162.803	114.948	-8.098	1.00	62.04	ES5
ATOM	38634	C	SER	E	125	160.648	114.005	-6.755	1.00	47.72	ES5
ATOM	38635	O	SER	E	125	160.071	115.082	-6.560	1.00	47.72	ES5
ATOM	38636	N	ARG	E	126	161.104	113.245	-5.767	1.00	36.22	ES5
ATOM	38637	CA	ARG	E	126	160.933	113.673	-4.395	1.00	36.22	ES5
ATOM	38638	CB	ARG	E	126	160.768	112.461	-3.492	1.00	41.73	ES5
ATOM	38639	CG	ARG	E	126	159.359	111.999	-3.542	1.00	41.73	ES5
ATOM	38640	CD	ARG	E	126	159.077	110.778	-2.748	1.00	41.73	ES5
ATOM	38641	NE	ARG	E	126	157.840	110.244	-3.289	1.00	41.73	ES5
ATOM	38642	CZ	ARG	E	126	157.354	109.051	-2.995	1.00	41.73	ES5



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ATOM	38643	NH1	ARG	E	126	158.022	108.270	-2.148	1.00	41.73	ESS
ATOM	38644	NH2	ARG	E	126	156.218	108.640	-3.559	1.00	41.73	ESS
ATOM	38645	C	ARG	E	126	162.038	114.567	-3.856	1.00	36.22	ESS
ATOM	38646	O	ARG	E	126	162.410	114.455	-2.696	1.00	36.22	ESS
ATOM	38647	N	ASN	E	127	162.564	115.470	-4.665	1.00	46.04	ESS
ATOM	38648	CA	ASN	E	127	163.621	116.296	-4.128	1.00	46.04	ESS
ATOM	38649	CB	ASN	E	127	164.461	116.934	-5.222	1.00	67.64	ESS
ATOM	38650	CG	ASN	E	127	165.577	117.771	-4.647	1.00	67.64	ESS
ATOM	38651	OD1	ASN	E	127	165.335	118.829	-4.061	1.00	67.64	ESS
ATOM	38652	ND2	ASN	E	127	166.804	117.288	-4.774	1.00	67.64	ESS
ATOM	38653	C	ASN	E	127	163.079	117.388	-3.234	1.00	46.04	ESS
ATOM	38654	O	ASN	E	127	162.365	118.280	-3.695	1.00	46.04	ESS
ATOM	38655	N	PRO	E	128	163.443	117.355	-1.942	1.00	41.51	ESS
ATOM	38656	CD	PRO	E	128	164.595	116.658	-1.358	1.00	25.37	ESS
ATOM	38657	CA	PRO	E	128	162.961	118.373	-1.012	1.00	41.51	ESS
ATOM	38658	CB	PRO	E	128	163.929	118.267	0.163	1.00	25.37	ESS
ATOM	38659	CG	PRO	E	128	165.145	117.737	-0.455	1.00	25.37	ESS
ATOM	38660	C	PRO	E	128	162.914	119.768	-1.598	1.00	41.51	ESS
ATOM	38661	O	PRO	E	128	161.845	120.389	-1.626	1.00	41.51	ESS
ATOM	38662	N	ILE	E	129	164.041	120.269	-2.087	1.00	32.81	ESS
ATOM	38663	CA	ILE	E	129	164.000	121.621	-2.624	1.00	32.81	ESS
ATOM	38664	CB	ILE	E	129	165.347	122.082	-3.158	1.00	36.61	ESS
ATOM	38665	CG2	ILE	E	129	165.210	123.482	-3.751	1.00	36.61	ESS
ATOM	38666	CG1	ILE	E	129	166.361	122.085	-2.011	1.00	36.61	ESS
ATOM	38667	CD1	ILE	E	129	167.687	122.718	-2.363	1.00	36.61	ESS
ATOM	38668	C	ILE	E	129	162.949	121.820	-3.700	1.00	32.81	ESS
ATOM	38669	O	ILE	E	129	162.181	122.780	-3.631	1.00	32.81	ESS
ATOM	38670	N	ASN	E	130	162.884	120.937	-4.688	1.00	41.98	ESS
ATOM	38671	CA	ASN	E	130	161.862	121.125	-5.705	1.00	41.98	ESS
ATOM	38672	CB	ASN	E	130	162.102	120.217	-6.896	1.00	46.83	ESS
ATOM	38673	CG	ASN	E	130	163.301	120.630	-7.680	1.00	46.83	ESS
ATOM	38674	OD1	ASN	E	130	163.471	121.809	-7.999	1.00	46.83	ESS
ATOM	38675	ND2	ASN	E	130	164.150	119.665	-8.004	1.00	46.83	ESS
ATOM	38676	C	ASN	E	130	160.451	120.910	-5.158	1.00	41.98	ESS
ATOM	38677	O	ASN	E	130	159.514	121.628	-5.529	1.00	41.98	ESS
ATOM	38678	N	ILE	E	131	160.286	119.927	-4.283	1.00	50.29	ESS
ATOM	38679	CA	ILE	E	131	158.978	119.703	-3.700	1.00	50.29	ESS
ATOM	38680	CB	ILE	E	131	159.022	118.554	-2.680	1.00	40.70	ESS
ATOM	38681	CG2	ILE	E	131	157.964	118.734	-1.619	1.00	40.70	ESS
ATOM	38682	CG1	ILE	E	131	158.829	117.229	-3.411	1.00	40.70	ESS
ATOM	38683	CD1	ILE	E	131	157.589	117.204	-4.319	1.00	40.70	ESS
ATOM	38684	C	ILE	E	131	158.555	121.012	-3.024	1.00	50.29	ESS
ATOM	38685	O	ILE	E	131	157.423	121.497	-3.210	1.00	50.29	ESS
ATOM	38686	N	ALA	E	132	159.476	121.589	-2.253	1.00	37.10	ESS
ATOM	38687	CA	ALA	E	132	159.222	122.851	-1.574	1.00	37.10	ESS
ATOM	38688	CB	ALA	E	132	160.513	123.405	-1.056	1.00	21.57	ESS
ATOM	38689	C	ALA	E	132	158.572	123.845	-2.539	1.00	37.10	ESS
ATOM	38690	O	ALA	E	132	157.443	124.281	-2.319	1.00	37.10	ESS
ATOM	38691	N	TYR	E	133	159.281	124.186	-3.613	1.00	38.30	ESS
ATOM	38692	CA	TYR	E	133	158.753	125.124	-4.604	1.00	38.30	ESS
ATOM	38693	CB	TYR	E	133	159.770	125.357	-5.714	1.00	95.90	ESS
ATOM	38694	CG	TYR	E	133	161.051	125.970	-5.225	1.00	95.90	ESS
ATOM	38695	CD1	TYR	E	133	162.246	125.745	-5.904	1.00	95.90	ESS
ATOM	38696	CE1	TYR	E	133	163.449	126.271	-5.449	1.00	95.90	ESS
ATOM	38697	CD2	TYR	E	133	161.084	126.751	-4.067	1.00	95.90	ESS
ATOM	38698	CE2	TYR	E	133	162.280	127.287	-3.597	1.00	95.90	ESS
ATOM	38699	CZ	TYR	E	133	163.462	127.039	-4.296	1.00	95.90	ESS
ATOM	38700	OH	TYR	E	133	164.668	127.539	-3.853	1.00	95.90	ESS
ATOM	38701	C	TYR	E	133	157.449	124.636	-5.220	1.00	38.30	ESS
ATOM	38702	O	TYR	E	133	156.614	125.441	-5.648	1.00	38.30	ESS
ATOM	38703	N	ALA	E	134	157.270	123.321	-5.280	1.00	37.71	ESS
ATOM	38704	CA	ALA	E	134	156.043	122.779	-5.845	1.00	37.71	ESS
ATOM	38705	CB	ALA	E	134	156.082	121.268	-5.822	1.00	105.45	ESS
ATOM	38706	C	ALA	E	134	154.868	123.288	-5.016	1.00	37.71	ESS
ATOM	38707	O	ALA	E	134	153.908	123.859	-5.548	1.00	37.71	ESS
ATOM	38708	N	THR	E	135	154.975	123.082	-3.705	1.00	44.52	ESS
ATOM	38709	CA	THR	E	135	153.966	123.500	-2.741	1.00	44.52	ESS
ATOM	38710	CB	THR	E	135	154.447	123.187	-1.350	1.00	38.25	ESS
ATOM	38711	OG1	THR	E	135	154.955	121.847	-1.331	1.00	38.25	ESS
ATOM	38712	CG2	THR	E	135	153.314	123.319	-0.355	1.00	38.25	ESS
ATOM	38713	C	THR	E	135	153.639	124.996	-2.825	1.00	44.52	ESS
ATOM	38714	O	THR	E	135	152.468	125.381	-2.934	1.00	44.52	ESS
ATOM	38715	N	MET	E	136	154.670	125.838	-2.758	1.00	42.84	ESS
ATOM	38716	CA	MET	E	136	154.482	127.282	-2.859	1.00	42.84	ESS
ATOM	38717	CB	MET	E	136	155.824	127.988	-2.966	1.00	60.40	ESS
ATOM	38718	CG	MET	E	136	156.606	127.882	-1.701	1.00	60.40	ESS
ATOM	38719	SD	MET	E	136	155.571	128.464	-0.360	1.00	60.40	ESS



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ATOM	38720	CE	MET	E	136	156.219	130.161	-0.147	1.00	60.40	ES5
ATOM	38721	C	MET	E	136	153.658	127.607	-4.083	1.00	42.84	ES5
ATOM	38722	O	MET	E	136	152.664	128.317	-3.998	1.00	42.84	ES5
ATOM	38723	N	GLU	E	137	154.070	127.090	-5.232	1.00	34.91	ES5
ATOM	38724	CA	GLU	E	137	153.325	127.352	-6.444	1.00	34.91	ES5
ATOM	38725	CB	GLU	E	137	154.009	126.711	-7.644	1.00	73.05	ES5
ATOM	38726	CG	GLU	E	137	154.705	127.738	-8.518	1.00	73.05	ES5
ATOM	38727	CD	GLU	E	137	153.754	128.841	-8.974	1.00	73.05	ES5
ATOM	38728	OE1	GLU	E	137	152.743	128.508	-9.636	1.00	73.05	ES5
ATOM	38729	OE2	GLU	E	137	154.017	130.032	-8.667	1.00	73.05	ES5
ATOM	38730	C	GLU	E	137	151.909	126.826	-6.293	1.00	34.91	ES5
ATOM	38731	O	GLU	E	137	150.944	127.462	-6.732	1.00	34.91	ES5
ATOM	38732	N	ALA	E	138	151.775	125.667	-5.661	1.00	44.53	ES5
ATOM	38733	CA	ALA	E	138	150.456	125.106	-5.446	1.00	44.53	ES5
ATOM	38734	CB	ALA	E	138	150.572	123.795	-4.730	1.00	26.44	ES5
ATOM	38735	C	ALA	E	138	149.642	126.105	-4.614	1.00	44.53	ES5
ATOM	38736	O	ALA	E	138	148.548	126.504	-5.008	1.00	44.53	ES5
ATOM	38737	N	LEU	E	139	150.177	126.526	-3.475	1.00	51.40	ES5
ATOM	38738	CA	LEU	E	139	149.466	127.489	-2.646	1.00	51.40	ES5
ATOM	38739	CB	LEU	E	139	150.268	127.781	-1.369	1.00	26.69	ES5
ATOM	38740	CG	LEU	E	139	150.454	126.564	-0.451	1.00	26.69	ES5
ATOM	38741	CD1	LEU	E	139	151.353	126.921	0.693	1.00	26.69	ES5
ATOM	38742	CD2	LEU	E	139	149.118	126.100	0.102	1.00	26.69	ES5
ATOM	38743	C	LEU	E	139	149.151	128.800	-3.402	1.00	51.40	ES5
ATOM	38744	O	LEU	E	139	148.079	129.387	-3.218	1.00	51.40	ES5
ATOM	38745	N	ARG	E	140	150.064	129.253	-4.259	1.00	37.34	ES5
ATOM	38746	CA	ARG	E	140	149.825	130.481	-5.008	1.00	37.34	ES5
ATOM	38747	CB	ARG	E	140	151.055	130.894	-5.813	1.00	49.45	ES5
ATOM	38748	CG	ARG	E	140	152.193	131.456	-5.021	1.00	49.45	ES5
ATOM	38749	CD	ARG	E	140	153.082	132.311	-5.908	1.00	49.45	ES5
ATOM	38750	NE	ARG	E	140	154.349	132.599	-5.248	1.00	49.45	ES5
ATOM	38751	CZ	ARG	E	140	155.300	131.688	-5.072	1.00	49.45	ES5
ATOM	38752	NH1	ARG	E	140	155.104	130.453	-5.521	1.00	49.45	ES5
ATOM	38753	NH2	ARG	E	140	156.436	131.997	-4.448	1.00	49.45	ES5
ATOM	38754	C	ARG	E	140	148.652	130.393	-5.987	1.00	37.34	ES5
ATOM	38755	O	ARG	E	140	147.971	131.395	-6.235	1.00	37.34	ES5
ATOM	38756	N	GLN	E	141	148.409	129.215	-6.557	1.00	31.55	ES5
ATOM	38757	CA	GLN	E	141	147.321	129.093	-7.528	1.00	31.55	ES5
ATOM	38758	CB	GLN	E	141	147.668	128.025	-8.555	1.00	70.80	ES5
ATOM	38759	CG	GLN	E	141	149.071	128.177	-9.060	1.00	70.80	ES5
ATOM	38760	CD	GLN	E	141	149.335	127.343	-10.273	1.00	70.80	ES5
ATOM	38761	OE1	GLN	E	141	148.949	126.178	-10.334	1.00	70.80	ES5
ATOM	38762	NE2	GLN	E	141	150.009	127.928	-11.255	1.00	70.80	ES5
ATOM	38763	C	GLN	E	141	145.939	128.820	-6.932	1.00	31.55	ES5
ATOM	38764	O	GLN	E	141	144.934	128.765	-7.660	1.00	31.55	ES5
ATOM	38765	N	LEU	E	142	145.893	128.649	-5.614	1.00	56.51	ES5
ATOM	38766	CA	LEU	E	142	144.634	128.418	-4.920	1.00	56.51	ES5
ATOM	38767	CB	LEU	E	142	144.888	128.254	-3.432	1.00	26.23	ES5
ATOM	38768	CG	LEU	E	142	145.412	126.894	-3.009	1.00	26.23	ES5
ATOM	38769	CD1	LEU	E	142	145.778	126.927	-1.538	1.00	26.23	ES5
ATOM	38770	CD2	LEU	E	142	144.339	125.846	-3.285	1.00	26.23	ES5
ATOM	38771	C	LEU	E	142	143.732	129.625	-5.133	1.00	56.51	ES5
ATOM	38772	O	LEU	E	142	144.211	130.767	-5.155	1.00	56.51	ES5
ATOM	38773	N	ARG	E	143	142.433	129.377	-5.275	1.00	49.56	ES5
ATOM	38774	CA	ARG	E	143	141.471	130.460	-5.488	1.00	49.56	ES5
ATOM	38775	CB	ARG	E	143	141.168	130.602	-6.982	1.00	57.27	ES5
ATOM	38776	CG	ARG	E	143	142.345	131.076	-7.798	1.00	57.27	ES5
ATOM	38777	CD	ARG	E	143	142.740	132.461	-7.356	1.00	57.27	ES5
ATOM	38778	NE	ARG	E	143	144.187	132.621	-7.325	1.00	57.27	ES5
ATOM	38779	CZ	ARG	E	143	144.971	132.517	-8.390	1.00	57.27	ES5
ATOM	38780	NH1	ARG	E	143	144.438	132.250	-9.581	1.00	57.27	ES5
ATOM	38781	NH2	ARG	E	143	146.284	132.676	-8.260	1.00	57.27	ES5
ATOM	38782	C	ARG	E	143	140.175	130.200	-4.738	1.00	49.56	ES5
ATOM	38783	O	ARG	E	143	139.794	129.052	-4.555	1.00	49.56	ES5
ATOM	38784	N	THR	E	144	139.499	131.263	-4.312	1.00	49.74	ES5
ATOM	38785	CA	THR	E	144	138.234	131.128	-3.592	1.00	49.74	ES5
ATOM	38786	CB	THR	E	144	138.149	132.106	-2.422	1.00	78.23	ES5
ATOM	38787	OG1	THR	E	144	139.311	131.952	-1.605	1.00	78.23	ES5
ATOM	38788	CG2	THR	E	144	136.889	131.838	-1.585	1.00	78.23	ES5
ATOM	38789	C	THR	E	144	137.064	131.413	-4.517	1.00	49.74	ES5
ATOM	38790	O	THR	E	144	137.216	132.128	-5.512	1.00	49.74	ES5
ATOM	38791	N	LYS	E	145	135.894	130.872	-4.183	1.00	52.02	ES5
ATOM	38792	CA	LYS	E	145	134.731	131.097	-5.022	1.00	52.02	ES5
ATOM	38793	CB	LYS	E	145	133.463	130.548	-4.373	1.00121.33	ES5	
ATOM	38794	CG	LYS	E	145	132.342	130.362	-5.386	1.00121.33	ES5	
ATOM	38795	CD	LYS	E	145	131.148	129.623	-4.812	1.00121.33	ES5	
ATOM	38796	CE	LYS	E	145	130.077	129.412	-5.878	1.00121.33	ES5	



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ATOM	38797	NZ	LYS	E	145	128.851	128.775	-5.318	1.00121.33	ES5
ATOM	38798	C	LYS	E	145	134.588	132.589	-5.296	1.00 52.02	ES5
ATOM	38799	O	LYS	E	145	134.097	132.992	-6.349	1.00 52.02	ES5
ATOM	38800	N	ALA	E	146	135.031	133.412	-4.351	1.00 46.05	ES5
ATOM	38801	CA	ALA	E	146	134.963	134.857	-4.525	1.00 46.05	ES5
ATOM	38802	CB	ALA	E	146	135.534	135.557	-3.316	1.00 33.74	ES5
ATOM	38803	C	ALA	E	146	135.783	135.206	-5.748	1.00 46.05	ES5
ATOM	38804	O	ALA	E	146	135.241	135.679	-6.748	1.00 46.05	ES5
ATOM	38805	N	ASP	E	147	137.090	134.949	-5.654	1.00 42.46	ES5
ATOM	38806	CA	ASP	E	147	138.044	135.221	-6.730	1.00 42.46	ES5
ATOM	38807	CB	ASP	E	147	139.362	134.541	-6.435	1.00 76.92	ES5
ATOM	38808	CG	ASP	E	147	139.788	134.726	-5.024	1.00 76.92	ES5
ATOM	38809	OD1	ASP	E	147	140.258	135.833	-4.688	1.00 76.92	ES5
ATOM	38810	OD2	ASP	E	147	139.636	133.764	-4.245	1.00 76.92	ES5
ATOM	38811	C	ASP	E	147	137.560	134.719	-8.077	1.00 42.46	ES5
ATOM	38812	O	ASP	E	147	137.623	135.426	-9.087	1.00 42.46	ES5
ATOM	38813	N	VAL	E	148	137.105	133.475	-8.093	1.00 34.78	ES5
ATOM	38814	CA	VAL	E	148	136.623	132.890	-9.319	1.00 34.78	ES5
ATOM	38815	CB	VAL	E	148	136.230	131.441	-9.117	1.00 48.67	ES5
ATOM	38816	CG1	VAL	E	148	135.823	130.836	-10.453	1.00 48.67	ES5
ATOM	38817	CG2	VAL	E	148	137.390	130.682	-8.487	1.00 48.67	ES5
ATOM	38818	C	VAL	E	148	135.412	133.656	-9.797	1.00 34.78	ES5
ATOM	38819	O	VAL	E	148	135.342	134.035	-10.966	1.00 34.78	ES5
ATOM	38820	N	GLU	E	149	134.459	133.877	-8.891	1.00 58.27	ES5
ATOM	38821	CA	GLU	E	149	133.235	134.605	-9.222	1.00 58.27	ES5
ATOM	38822	CB	GLU	E	149	132.353	134.786	-7.984	1.00158.02	ES5
ATOM	38823	CG	GLU	E	149	131.183	135.739	-8.209	1.00158.02	ES5
ATOM	38824	CD	GLU	E	149	130.439	136.084	-6.930	1.00158.02	ES5
ATOM	38825	OE1	GLU	E	149	131.099	136.457	-5.937	1.00158.02	ES5
ATOM	38826	OE2	GLU	E	149	129.192	135.995	-6.921	1.00158.02	ES5
ATOM	38827	C	GLU	E	149	133.637	135.965	-9.750	1.00 58.27	ES5
ATOM	38828	O	GLU	E	149	133.084	136.460	-10.743	1.00 58.27	ES5
ATOM	38829	N	ARG	E	150	134.615	136.553	-9.065	1.00 60.12	ES5
ATOM	38830	CA	ARG	E	150	135.159	137.856	-9.411	1.00 60.12	ES5
ATOM	38831	CB	ARG	E	150	136.321	138.178	-8.472	1.00145.52	ES5
ATOM	38832	CG	ARG	E	150	136.338	139.599	-7.976	1.00145.52	ES5
ATOM	38833	CD	ARG	E	150	136.689	140.563	-9.087	1.00145.52	ES5
ATOM	38834	NE	ARG	E	150	136.772	141.941	-8.608	1.00145.52	ES5
ATOM	38835	CZ	ARG	E	150	137.527	142.339	-7.586	1.00145.52	ES5
ATOM	38836	NH1	ARG	E	150	138.276	141.464	-6.921	1.00145.52	ES5
ATOM	38837	NH2	ARG	E	150	137.538	143.619	-7.230	1.00145.52	ES5
ATOM	38838	C	ARG	E	150	135.633	137.840	-10.872	1.00 60.12	ES5
ATOM	38839	O	ARG	E	150	135.188	138.652	-11.676	1.00 60.12	ES5
ATOM	38840	N	LEU	E	151	136.510	136.896	-11.217	1.00 55.83	ES5
ATOM	38841	CA	LEU	E	151	137.039	136.789	-12.574	1.00 55.83	ES5
ATOM	38842	CB	LEU	E	151	138.074	135.669	-12.669	1.00 38.92	ES5
ATOM	38843	CG	LEU	E	151	139.440	135.848	-12.018	1.00 38.92	ES5
ATOM	38844	CD1	LEU	E	151	140.353	134.718	-12.453	1.00 38.92	ES5
ATOM	38845	CD2	LEU	E	151	140.019	137.188	-12.430	1.00 38.92	ES5
ATOM	38846	C	LEU	E	151	136.004	136.546	-13.655	1.00 55.83	ES5
ATOM	38847	O	LEU	E	151	136.281	136.765	-14.827	1.00 55.83	ES5
ATOM	38848	N	ARG	E	152	134.817	136.080	-13.298	1.00 60.74	ES5
ATOM	38849	CA	ARG	E	152	133.832	135.838	-14.337	1.00 60.74	ES5
ATOM	38850	CB	ARG	E	152	133.347	134.413	-14.262	1.00 59.20	ES5
ATOM	38851	CG	ARG	E	152	134.442	133.436	-14.069	1.00 59.20	ES5
ATOM	38852	CD	ARG	E	152	133.836	132.078	-14.134	1.00 59.20	ES5
ATOM	38853	NE	ARG	E	152	134.646	131.077	-13.461	1.00 59.20	ES5
ATOM	38854	CZ	ARG	E	152	134.199	129.861	-13.169	1.00 59.20	ES5
ATOM	38855	NH1	ARG	E	152	132.950	129.522	-13.498	1.00 59.20	ES5
ATOM	38856	NH2	ARG	E	152	134.999	128.988	-12.562	1.00 59.20	ES5
ATOM	38857	C	ARG	E	152	132.638	136.782	-14.318	1.00 60.74	ES5
ATOM	38858	O	ARG	E	152	131.494	136.361	-14.508	1.00 60.74	ES5
ATOM	38859	N	LYS	E	153	132.903	138.061	-14.082	1.00 74.00	ES5
ATOM	38860	CA	LYS	E	153	131.845	139.055	-14.079	1.00 74.00	ES5
ATOM	38861	CB	LYS	E	153	132.154	140.164	-13.068	1.00127.90	ES5
ATOM	38862	CG	LYS	E	153	131.956	139.777	-11.601	1.00127.90	ES5
ATOM	38863	CD	LYS	E	153	130.512	139.977	-11.135	1.00127.90	ES5
ATOM	38864	CE	LYS	E	153	130.383	139.805	-9.616	1.00127.90	ES5
ATOM	38865	NZ	LYS	E	153	129.017	140.127	-9.101	1.00127.90	ES5
ATOM	38866	C	LYS	E	153	131.784	139.625	-15.499	1.00 74.00	ES5
ATOM	38867	O	LYS	E	153	131.576	138.884	-16.462	1.00 74.00	ES5
ATOM	38868	N	GLY	E	154	131.978	140.936	-15.622	1.00153.52	ES5
ATOM	38869	CA	GLY	E	154	131.944	141.587	-16.922	1.00153.52	ES5
ATOM	38870	C	GLY	E	154	130.620	141.454	-17.654	1.00153.52	ES5
ATOM	38871	O	GLY	E	154	129.776	140.637	-17.232	1.00153.52	ES5
ATOM	38872	OXT	GLY	E	154	130.425	142.164	-18.662	1.00 78.82	ES5
TER	38872		GLY	E	154					ES5



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ATOM	38873	CB	MET	F	1	156.850	113.488	-84.437	1.00125.05	FS6
ATOM	38874	CG	MET	F	1	156.424	112.351	-85.320	1.00125.05	FS6
ATOM	38875	SD	MET	F	1	156.724	112.809	-87.010	1.00125.05	FS6
ATOM	38876	CE	MET	F	1	155.641	114.243	-87.148	1.00125.05	FS6
ATOM	38877	C	MET	F	1	157.221	114.413	-82.179	1.00 92.55	FS6
ATOM	38878	O	MET	F	1	156.459	115.262	-81.718	1.00 92.55	FS6
ATOM	38879	N	MET	F	1	155.261	112.932	-82.624	1.00 92.55	FS6
ATOM	38880	CA	MET	F	1	156.687	113.217	-82.948	1.00 92.55	FS6
ATOM	38881	N	ARG	F	2	158.542	114.480	-82.063	1.00 76.23	FS6
ATOM	38882	CA	ARG	F	2	159.194	115.566	-81.350	1.00 76.23	FS6
ATOM	38883	CB	ARG	F	2	159.876	115.014	-80.099	1.00 90.36	FS6
ATOM	38884	CG	ARG	F	2	158.907	114.320	-79.168	1.00 90.36	FS6
ATOM	38885	CD	ARG	F	2	159.606	113.593	-78.047	1.00 90.36	FS6
ATOM	38886	NE	ARG	F	2	158.661	112.710	-77.372	1.00 90.36	FS6
ATOM	38887	CZ	ARG	F	2	158.994	111.743	-76.518	1.00 90.36	FS6
ATOM	38888	NH1	ARG	F	2	160.267	111.521	-76.214	1.00 90.36	FS6
ATOM	38889	NH2	ARG	F	2	158.048	110.978	-75.981	1.00 90.36	FS6
ATOM	38890	C	ARG	F	2	160.203	116.283	-82.240	1.00 76.23	FS6
ATOM	38891	O	ARG	F	2	160.665	115.742	-83.243	1.00 76.23	FS6
ATOM	38892	N	ARG	F	3	160.535	117.507	-81.857	1.00 90.41	FS6
ATOM	38893	CA	ARG	F	3	161.468	118.334	-82.607	1.00 90.41	FS6
ATOM	38894	CB	ARG	F	3	160.979	119.777	-82.552	1.00160.82	FS6
ATOM	38895	CG	ARG	F	3	161.433	120.670	-83.676	1.00160.82	FS6
ATOM	38896	CD	ARG	F	3	160.758	122.011	-83.510	1.00160.82	FS6
ATOM	38897	NE	ARG	F	3	161.021	122.922	-84.613	1.00160.82	FS6
ATOM	38898	CZ	ARG	F	3	160.543	124.159	-84.676	1.00160.82	FS6
ATOM	38899	NH1	ARG	F	3	159.780	124.625	-83.695	1.00160.82	FS6
ATOM	38900	NH2	ARG	F	3	160.825	124.932	-85.718	1.00160.82	FS6
ATOM	38901	C	ARG	F	3	162.876	118.223	-82.012	1.00 90.41	FS6
ATOM	38902	O	ARG	F	3	163.100	118.584	-80.851	1.00 90.41	FS6
ATOM	38903	N	TYR	F	4	163.820	117.725	-82.811	1.00 88.53	FS6
ATOM	38904	CA	TYR	F	4	165.207	117.550	-82.372	1.00 88.53	FS6
ATOM	38905	CB	TYR	F	4	165.633	116.083	-82.491	1.00 77.20	FS6
ATOM	38906	CG	TYR	F	4	164.766	115.085	-81.762	1.00 77.20	FS6
ATOM	38907	CD1	TYR	F	4	164.815	114.967	-80.378	1.00 77.20	FS6
ATOM	38908	CE1	TYR	F	4	164.027	114.028	-79.712	1.00 77.20	FS6
ATOM	38909	CD2	TYR	F	4	163.905	114.241	-82.468	1.00 77.20	FS6
ATOM	38910	CE2	TYR	F	4	163.113	113.306	-81.817	1.00 77.20	FS6
ATOM	38911	CZ	TYR	F	4	163.177	113.200	-80.439	1.00 77.20	FS6
ATOM	38912	OH	TYR	F	4	162.395	112.268	-79.788	1.00 77.20	FS6
ATOM	38913	C	TYR	F	4	166.176	118.367	-83.212	1.00 88.53	FS6
ATOM	38914	O	TYR	F	4	165.821	118.891	-84.262	1.00 88.53	FS6
ATOM	38915	N	GLU	F	5	167.412	118.443	-82.738	1.00 75.07	FS6
ATOM	38916	CA	GLU	F	5	168.488	119.143	-83.425	1.00 75.07	FS6
ATOM	38917	CB	GLU	F	5	168.956	120.344	-82.616	1.00 81.57	FS6
ATOM	38918	CG	GLU	F	5	168.064	121.546	-82.736	1.00 81.57	FS6
ATOM	38919	CD	GLU	F	5	168.430	122.629	-81.743	1.00 81.57	FS6
ATOM	38920	OE1	GLU	F	5	169.644	122.869	-81.538	1.00 81.57	FS6
ATOM	38921	OE2	GLU	F	5	167.500	123.244	-81.173	1.00 81.57	FS6
ATOM	38922	C	GLU	F	5	169.639	118.165	-83.567	1.00 75.07	FS6
ATOM	38923	O	GLU	F	5	170.221	117.739	-82.574	1.00 75.07	FS6
ATOM	38924	N	VAL	F	6	169.960	117.798	-84.800	1.00 70.10	FS6
ATOM	38925	CA	VAL	F	6	171.055	116.873	-85.037	1.00 70.10	FS6
ATOM	38926	CB	VAL	F	6	170.771	115.986	-86.238	1.00 47.86	FS6
ATOM	38927	CG1	VAL	F	6	171.955	115.059	-86.488	1.00 47.86	FS6
ATOM	38928	CG2	VAL	F	6	169.525	115.184	-85.988	1.00 47.86	FS6
ATOM	38929	C	VAL	F	6	172.359	117.616	-85.296	1.00 70.10	FS6
ATOM	38930	O	VAL	F	6	172.382	118.607	-86.018	1.00 70.10	FS6
ATOM	38931	N	ASN	F	7	173.442	117.139	-84.698	1.00 63.10	FS6
ATOM	38932	CA	ASN	F	7	174.739	117.762	-84.890	1.00 63.10	FS6
ATOM	38933	CB	ASN	F	7	175.306	118.226	-83.561	1.00 72.70	FS6
ATOM	38934	CG	ASN	F	7	174.761	119.558	-83.155	1.00 72.70	FS6
ATOM	38935	OD1	ASN	F	7	175.267	120.601	-83.574	1.00 72.70	FS6
ATOM	38936	ND2	ASN	F	7	173.699	119.543	-82.359	1.00 72.70	FS6
ATOM	38937	C	ASN	F	7	175.676	116.773	-85.524	1.00 63.10	FS6
ATOM	38938	O	ASN	F	7	175.762	115.622	-85.089	1.00 63.10	FS6
ATOM	38939	N	ILE	F	8	176.373	117.208	-86.565	1.00 66.83	FS6
ATOM	38940	CA	ILE	F	8	177.309	116.322	-87.225	1.00 66.83	FS6
ATOM	38941	CB	ILE	F	8	176.690	115.725	-88.498	1.00 55.94	FS6
ATOM	38942	CG2	ILE	F	8	177.704	114.836	-89.200	1.00 55.94	FS6
ATOM	38943	CG1	ILE	F	8	175.454	114.901	-88.111	1.00 55.94	FS6
ATOM	38944	CD1	ILE	F	8	174.814	114.142	-89.248	1.00 55.94	FS6
ATOM	38945	C	ILE	F	8	178.623	117.016	-87.536	1.00 66.83	FS6
ATOM	38946	O	ILE	F	8	178.645	118.150	-88.010	1.00 66.83	FS6
ATOM	38947	N	VAL	F	9	179.720	116.329	-87.237	1.00 65.80	FS6
ATOM	38948	CA	VAL	F	9	181.049	116.867	-87.470	1.00 65.80	FS6
ATOM	38949	CB	VAL	F	9	181.785	117.103	-86.141	1.00 47.05	FS6



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ATOM	38950	CG1	VAL	F	9	183.034	117.914	-86.380	1.00	47.05	FS6
ATOM	38951	CG2	VAL	F	9	180.883	117.816	-85.161	1.00	47.05	FS6
ATOM	38952	C	VAL	F	9	181.826	115.848	-88.289	1.00	65.80	FS6
ATOM	38953	O	VAL	F	9	182.119	114.751	-87.803	1.00	65.80	FS6
ATOM	38954	N	LEU	F	10	182.157	116.201	-89.529	1.00	78.31	FS6
ATOM	38955	CA	LEU	F	10	182.889	115.280	-90.393	1.00	78.31	FS6
ATOM	38956	CB	LEU	F	10	182.220	115.155	-91.764	1.00	77.35	FS6
ATOM	38957	CG	LEU	F	10	180.715	115.377	-91.873	1.00	77.35	FS6
ATOM	38958	CD1	LEU	F	10	180.428	116.879	-91.926	1.00	77.35	FS6
ATOM	38959	CD2	LEU	F	10	180.201	114.702	-93.133	1.00	77.35	FS6
ATOM	38960	C	LEU	F	10	184.337	115.680	-90.607	1.00	78.31	FS6
ATOM	38961	O	LEU	F	10	184.788	116.731	-90.143	1.00	78.31	FS6
ATOM	38962	N	ASN	F	11	185.050	114.820	-91.327	1.00	73.02	FS6
ATOM	38963	CA	ASN	F	11	186.449	115.037	-91.642	1.00	73.02	FS6
ATOM	38964	CB	ASN	F	11	187.004	113.831	-92.388	1.00104.95	FS6	FS6
ATOM	38965	CG	ASN	F	11	188.481	113.941	-92.627	1.00104.95	FS6	FS6
ATOM	38966	OD1	ASN	F	11	188.948	114.896	-93.243	1.00104.95	FS6	FS6
ATOM	38967	ND2	ASN	F	11	189.235	112.967	-92.134	1.00104.95	FS6	FS6
ATOM	38968	C	ASN	F	11	186.574	116.282	-92.511	1.00	73.02	FS6
ATOM	38969	O	ASN	F	11	186.082	116.317	-93.637	1.00	73.02	FS6
ATOM	38970	N	PRO	F	12	187.250	117.318	-92.000	1.00	78.50	FS6
ATOM	38971	CD	PRO	F	12	187.971	117.299	-90.714	1.00	83.19	FS6
ATOM	38972	CA	PRO	F	12	187.459	118.593	-92.697	1.00	78.50	FS6
ATOM	38973	CB	PRO	F	12	188.030	119.483	-91.601	1.00	83.19	FS6
ATOM	38974	CG	PRO	F	12	188.877	118.515	-90.826	1.00	83.19	FS6
ATOM	38975	C	PRO	F	12	188.380	118.525	-93.915	1.00	78.50	FS6
ATOM	38976	O	PRO	F	12	188.824	119.556	-94.422	1.00	78.50	FS6
ATOM	38977	N	ASN	F	13	188.664	117.315	-94.386	1.00103.62	FS6	FS6
ATOM	38978	CA	ASN	F	13	189.544	117.151	-95.535	1.00103.62	FS6	FS6
ATOM	38979	CB	ASN	F	13	190.759	116.311	-95.158	1.00103.10	FS6	FS6
ATOM	38980	CG	ASN	F	13	191.333	116.696	-93.820	1.00103.10	FS6	FS6
ATOM	38981	OD1	ASN	F	13	191.590	117.875	-93.559	1.00103.10	FS6	FS6
ATOM	38982	ND2	ASN	F	13	191.541	115.704	-92.958	1.00103.10	FS6	FS6
ATOM	38983	C	ASN	F	13	188.840	116.487	-96.696	1.00103.62	FS6	FS6
ATOM	38984	O	ASN	F	13	189.481	115.829	-97.511	1.00103.62	FS6	FS6
ATOM	38985	N	LEU	F	14	187.524	116.644	-96.774	1.00	98.94	FS6
ATOM	38986	CA	LEU	F	14	186.779	116.038	-97.866	1.00	98.94	FS6
ATOM	38987	CB	LEU	F	14	185.391	115.594	-97.399	1.00	81.96	FS6
ATOM	38988	CG	LEU	F	14	185.329	114.623	-96.216	1.00	81.96	FS6
ATOM	38989	CD1	LEU	F	14	183.932	114.021	-96.143	1.00	81.96	FS6
ATOM	38990	CD2	LEU	F	14	186.363	113.521	-96.377	1.00	81.96	FS6
ATOM	38991	C	LEU	F	14	186.643	117.021	-99.016	1.00	98.94	FS6
ATOM	38992	O	LEU	F	14	186.316	118.194	-98.807	1.00	98.94	FS6
ATOM	38993	N	ASP	F	15	186.905	116.537	-100.227	1.00	98.70	FS6
ATOM	38994	CA	ASP	F	15	186.807	117.366	-101.422	1.00	98.70	FS6
ATOM	38995	CB	ASP	F	15	187.592	116.737	-102.577	1.00180.66	FS6	FS6
ATOM	38996	CG	ASP	F	15	187.040	115.385	-102.995	1.00180.66	FS6	FS6
ATOM	38997	OD1	ASP	F	15	185.854	115.315	-103.384	1.00180.66	FS6	FS6
ATOM	38998	OD2	ASP	F	15	187.794	114.390	-102.937	1.00180.66	FS6	FS6
ATOM	38999	C	ASP	F	15	185.346	117.524	-101.823	1.00	98.70	FS6
ATOM	39000	O	ASP	F	15	184.510	116.671	-101.510	1.00	98.70	FS6
ATOM	39001	N	GLN	F	16	185.051	118.621	-102.515	1.00100.98	FS6	FS6
ATOM	39002	CA	GLN	F	16	183.702	118.928	-102.971	1.00100.98	FS6	FS6
ATOM	39003	CB	GLN	F	16	183.770	119.700	-104.288	1.00166.41	FS6	FS6
ATOM	39004	CG	GLN	F	16	182.414	120.064	-104.842	1.00166.41	FS6	FS6
ATOM	39005	CD	GLN	F	16	181.529	120.687	-103.788	1.00166.41	FS6	FS6
ATOM	39006	OE1	GLN	F	16	181.882	121.702	-103.188	1.00166.41	FS6	FS6
ATOM	39007	NE2	GLN	F	16	180.374	120.078	-103.548	1.00166.41	FS6	FS6
ATOM	39008	C	GLN	F	16	182.812	117.696	-103.148	1.00100.98	FS6	FS6
ATOM	39009	O	GLN	F	16	181.653	117.690	-102.727	1.00100.98	FS6	FS6
ATOM	39010	N	SER	F	17	183.366	116.656	-103.765	1.00112.47	FS6	FS6
ATOM	39011	CA	SER	F	17	182.637	115.417	-104.025	1.00112.47	FS6	FS6
ATOM	39012	CB	SER	F	17	183.425	114.556	-105.013	1.00114.50	FS6	FS6
ATOM	39013	OG	SER	F	17	183.690	115.272	-106.208	1.00114.50	FS6	FS6
ATOM	39014	C	SER	F	17	182.329	114.597	-102.773	1.00112.47	FS6	FS6
ATOM	39015	O	SER	F	17	181.171	114.484	-102.372	1.00112.47	FS6	FS6
ATOM	39016	N	GLN	F	18	183.366	114.014	-102.176	1.00118.78	FS6	FS6
ATOM	39017	CA	GLN	F	18	183.224	113.200	-100.969	1.00118.78	FS6	FS6
ATOM	39018	CB	GLN	F	18	184.586	112.976	-100.324	1.00133.70	FS6	FS6
ATOM	39019	CG	GLN	F	18	185.616	112.292	-101.191	1.00133.70	FS6	FS6
ATOM	39020	CD	GLN	F	18	187.019	112.461	-100.630	1.00133.70	FS6	FS6
ATOM	39021	OE1	GLN	F	18	187.950	111.753	-101.017	1.00133.70	FS6	FS6
ATOM	39022	NE2	GLN	F	18	187.177	113.416	-99.716	1.00133.70	FS6	FS6
ATOM	39023	C	GLN	F	18	182.323	113.877	-99.943	1.00118.78	FS6	FS6
ATOM	39024	O	GLN	F	18	181.401	113.262	-99.405	1.00118.78	FS6	FS6
ATOM	39025	N	LEU	F	19	182.617	115.145	-99.670	1.00	92.67	FS6
ATOM	39026	CA	LEU	F	19	181.867	115.945	-98.706	1.00	92.67	FS6



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ATOM	39027	CB	LEU	F	19	182.421	117.372	-98.691	1.00	71.90	FS6
ATOM	39028	CG	LEU	F	19	181.791	118.396	-97.741	1.00	71.90	FS6
ATOM	39029	CD1	LEU	F	19	182.675	119.639	-97.699	1.00	71.90	FS6
ATOM	39030	CD2	LEU	F	19	180.371	118.749	-98.190	1.00	71.90	FS6
ATOM	39031	C	LEU	F	19	180.365	115.968	-98.997	1.00	92.67	FS6
ATOM	39032	O	LEU	F	19	179.546	115.684	-98.118	1.00	92.67	FS6
ATOM	39033	N	ALA	F	20	180.010	116.326	-100.226	1.00	109.62	FS6
ATOM	39034	CA	ALA	F	20	178.613	116.376	-100.631	1.00	109.62	FS6
ATOM	39035	CB	ALA	F	20	178.492	117.074	-101.972	1.00	129.31	FS6
ATOM	39036	C	ALA	F	20	178.035	114.955	-100.706	1.00	109.62	FS6
ATOM	39037	O	ALA	F	20	176.816	114.768	-100.694	1.00	109.62	FS6
ATOM	39038	N	LEU	F	21	178.918	113.961	-100.792	1.00	91.36	FS6
ATOM	39039	CA	LEU	F	21	178.510	112.558	-100.835	1.00	91.36	FS6
ATOM	39040	CB	LEU	F	21	179.689	111.656	-101.212	1.00	74.85	FS6
ATOM	39041	CG	LEU	F	21	179.603	110.237	-100.618	1.00	74.85	FS6
ATOM	39042	CD1	LEU	F	21	178.440	109.482	-101.257	1.00	74.85	FS6
ATOM	39043	CD2	LEU	F	21	180.916	109.487	-100.823	1.00	74.85	FS6
ATOM	39044	C	LEU	F	21	178.022	112.152	-99.448	1.00	91.36	FS6
ATOM	39045	O	LEU	F	21	177.040	111.417	-99.306	1.00	91.36	FS6
ATOM	39046	N	GLU	F	22	178.735	112.613	-98.425	1.00	128.67	FS6
ATOM	39047	CA	GLU	F	22	178.364	112.297	-97.057	1.00	128.67	FS6
ATOM	39048	CB	GLU	F	22	179.411	112.834	-96.082	1.00	99.50	FS6
ATOM	39049	CG	GLU	F	22	180.752	112.114	-96.183	1.00	99.50	FS6
ATOM	39050	CD	GLU	F	22	180.653	110.623	-95.863	1.00	99.50	FS6
ATOM	39051	OE1	GLU	F	22	179.522	110.124	-95.668	1.00	99.50	FS6
ATOM	39052	OE2	GLU	F	22	181.707	109.949	-95.811	1.00	99.50	FS6
ATOM	39053	C	GLU	F	22	177.003	112.905	-96.779	1.00	128.67	FS6
ATOM	39054	O	GLU	F	22	176.146	112.266	-96.167	1.00	128.67	FS6
ATOM	39055	N	LYS	F	23	176.807	114.139	-97.240	1.00	84.98	FS6
ATOM	39056	CA	LYS	F	23	175.529	114.817	-97.068	1.00	84.98	FS6
ATOM	39057	CB	LYS	F	23	175.571	116.206	-97.691	1.00	84.65	FS6
ATOM	39058	CG	LYS	F	23	176.472	117.181	-96.979	1.00	84.65	FS6
ATOM	39059	CD	LYS	F	23	176.002	118.593	-97.263	1.00	84.65	FS6
ATOM	39060	CE	LYS	F	23	174.529	118.763	-96.866	1.00	84.65	FS6
ATOM	39061	NZ	LYS	F	23	173.981	120.105	-97.239	1.00	84.65	FS6
ATOM	39062	C	LYS	F	23	174.446	113.989	-97.754	1.00	84.98	FS6
ATOM	39063	O	LYS	F	23	173.265	114.067	-97.407	1.00	84.98	FS6
ATOM	39064	N	GLU	F	24	174.863	113.203	-98.742	1.00	101.30	FS6
ATOM	39065	CA	GLU	F	24	173.953	112.340	-99.474	1.00	101.30	FS6
ATOM	39066	CB	GLU	F	24	174.680	111.684	-100.654	1.00	180.63	FS6
ATOM	39067	CG	GLU	F	24	174.028	110.417	-101.187	1.00	180.63	FS6
ATOM	39068	CD	GLU	F	24	172.575	110.620	-101.561	1.00	180.63	FS6
ATOM	39069	OE1	GLU	F	24	172.291	111.519	-102.380	1.00	180.63	FS6
ATOM	39070	OE2	GLU	F	24	171.718	109.877	-101.035	1.00	180.63	FS6
ATOM	39071	C	GLU	F	24	173.438	111.277	-98.517	1.00	101.30	FS6
ATOM	39072	O	GLU	F	24	172.253	111.258	-98.182	1.00	101.30	FS6
ATOM	39073	N	ILE	F	25	174.337	110.405	-98.070	1.00	109.52	FS6
ATOM	39074	CA	ILE	F	25	173.973	109.333	-97.147	1.00	109.52	FS6
ATOM	39075	CB	ILE	F	25	175.217	108.557	-96.686	1.00	79.04	FS6
ATOM	39076	CG2	ILE	F	25	174.792	107.320	-95.912	1.00	79.04	FS6
ATOM	39077	CG1	ILE	F	25	176.063	108.172	-97.903	1.00	79.04	FS6
ATOM	39078	CD1	ILE	F	25	177.278	107.327	-97.580	1.00	79.04	FS6
ATOM	39079	C	ILE	F	25	173.249	109.884	-95.918	1.00	109.52	FS6
ATOM	39080	O	ILE	F	25	172.321	109.257	-95.399	1.00	109.52	FS6
ATOM	39081	N	ILE	F	26	173.689	111.053	-95.455	1.00	73.57	FS6
ATOM	39082	CA	ILE	F	26	173.081	111.717	-94.308	1.00	73.57	FS6
ATOM	39083	CB	ILE	F	26	173.871	112.993	-93.925	1.00	54.00	FS6
ATOM	39084	CG2	ILE	F	26	173.017	113.905	-93.046	1.00	54.00	FS6
ATOM	39085	CG1	ILE	F	26	175.177	112.613	-93.226	1.00	54.00	FS6
ATOM	39086	CD1	ILE	F	26	176.000	113.821	-92.791	1.00	54.00	FS6
ATOM	39087	C	ILE	F	26	171.640	112.103	-94.662	1.00	73.57	FS6
ATOM	39088	O	ILE	F	26	170.690	111.565	-94.089	1.00	73.57	FS6
ATOM	39089	N	GLN	F	27	171.486	113.036	-95.601	1.00	61.72	FS6
ATOM	39090	CA	GLN	F	27	170.165	113.474	-96.041	1.00	61.72	FS6
ATOM	39091	CB	GLN	F	27	170.273	114.254	-97.348	1.00	138.65	FS6
ATOM	39092	CG	GLN	F	27	170.767	115.666	-97.163	1.00	138.65	FS6
ATOM	39093	CD	GLN	F	27	169.778	116.519	-96.397	1.00	138.65	FS6
ATOM	39094	OE1	GLN	F	27	170.058	117.675	-96.083	1.00	138.65	FS6
ATOM	39095	NE2	GLN	F	27	168.610	115.955	-96.096	1.00	138.65	FS6
ATOM	39096	C	GLN	F	27	169.288	112.254	-96.251	1.00	61.72	FS6
ATOM	39097	O	GLN	F	27	168.106	112.248	-95.903	1.00	61.72	FS6
ATOM	39098	N	ARG	F	28	169.889	111.220	-96.825	1.00	78.36	FS6
ATOM	39099	CA	ARG	F	28	169.193	109.974	-97.085	1.00	78.36	FS6
ATOM	39100	CB	ARG	F	28	170.151	108.973	-97.729	1.00	117.68	FS6
ATOM	39101	CG	ARG	F	28	169.475	107.845	-98.472	1.00	117.68	FS6
ATOM	39102	CD	ARG	F	28	170.511	106.900	-99.043	1.00	117.68	FS6
ATOM	39103	NE	ARG	F	28	170.001	106.173	-100.199	1.00	117.68	FS6



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ATOM	39104	CZ	ARG	F	28	169.645	106.754	-101.340	1.00117.68	FS6
ATOM	39105	NH1	ARG	F	28	169.747	108.069	-101.468	1.00117.68	FS6
ATOM	39106	NH2	ARG	F	28	169.193	106.024	-102.352	1.00117.68	FS6
ATOM	39107	C	ARG	F	28	168.690	109.429	-95.753	1.00 78.36	FS6
ATOM	39108	O	ARG	F	28	167.502	109.520	-95.443	1.00 78.36	FS6
ATOM	39109	N	ALA	F	29	169.615	108.882	-94.967	1.00 86.05	FS6
ATOM	39110	CA	ALA	F	29	169.313	108.307	-93.659	1.00 86.05	FS6
ATOM	39111	CB	ALA	F	29	170.592	108.143	-92.869	1.00 70.69	FS6
ATOM	39112	C	ALA	F	29	168.306	109.112	-92.847	1.00 86.05	FS6
ATOM	39113	O	ALA	F	29	167.357	108.547	-92.310	1.00 86.05	FS6
ATOM	39114	N	LEU	F	30	168.519	110.421	-92.738	1.00 71.69	FS6
ATOM	39115	CA	LEU	F	30	167.594	111.267	-91.999	1.00 71.69	FS6
ATOM	39116	CB	LEU	F	30	167.825	112.738	-92.329	1.00 55.93	FS6
ATOM	39117	CG	LEU	F	30	169.055	113.407	-91.708	1.00 55.93	FS6
ATOM	39118	CD1	LEU	F	30	169.451	114.641	-92.507	1.00 55.93	FS6
ATOM	39119	CD2	LEU	F	30	168.758	113.773	-90.259	1.00 55.93	FS6
ATOM	39120	C	LEU	F	30	166.188	110.871	-92.411	1.00 71.69	FS6
ATOM	39121	O	LEU	F	30	165.356	110.540	-91.568	1.00 71.69	FS6
ATOM	39122	N	GLU	F	31	165.934	110.882	-93.717	1.00 91.82	FS6
ATOM	39123	CA	GLU	F	31	164.622	110.517	-94.250	1.00 91.82	FS6
ATOM	39124	CB	GLU	F	31	164.554	110.833	-95.749	1.00157.97	FS6
ATOM	39125	CG	GLU	F	31	163.158	110.700	-96.353	1.00157.97	FS6
ATOM	39126	CD	GLU	F	31	163.156	110.765	-97.872	1.00157.97	FS6
ATOM	39127	OE1	GLU	F	31	163.741	111.716	-98.431	1.00157.97	FS6
ATOM	39128	OE2	GLU	F	31	162.560	109.867	-98.506	1.00157.97	FS6
ATOM	39129	C	GLU	F	31	164.306	109.030	-94.029	1.00 91.82	FS6
ATOM	39130	O	GLU	F	31	163.215	108.675	-93.580	1.00 91.82	FS6
ATOM	39131	N	ASN	F	32	165.265	108.168	-94.348	1.00 83.73	FS6
ATOM	39132	CA	ASN	F	32	165.091	106.728	-94.197	1.00 83.73	FS6
ATOM	39133	CB	ASN	F	32	166.417	106.017	-94.465	1.00136.28	FS6
ATOM	39134	CG	ASN	F	32	166.891	106.195	-95.895	1.00136.28	FS6
ATOM	39135	OD1	ASN	F	32	168.049	105.928	-96.217	1.00136.28	FS6
ATOM	39136	ND2	ASN	F	32	165.992	106.641	-96.764	1.00136.28	FS6
ATOM	39137	C	ASN	F	32	164.568	106.352	-92.814	1.00 83.73	FS6
ATOM	39138	O	ASN	F	32	164.034	105.254	-92.621	1.00 83.73	FS6
ATOM	39139	N	TYR	F	33	164.721	107.265	-91.855	1.00105.10	FS6
ATOM	39140	CA	TYR	F	33	164.260	107.022	-90.492	1.00105.10	FS6
ATOM	39141	CB	TYR	F	33	165.383	107.279	-89.484	1.00 86.84	FS6
ATOM	39142	CG	TYR	F	33	166.293	106.087	-89.295	1.00 86.84	FS6
ATOM	39143	CD1	TYR	F	33	167.499	105.983	-89.988	1.00 86.84	FS6
ATOM	39144	CE1	TYR	F	33	168.316	104.857	-89.849	1.00 86.84	FS6
ATOM	39145	CD2	TYR	F	33	165.924	105.037	-88.454	1.00 86.84	FS6
ATOM	39146	CE2	TYR	F	33	166.730	103.907	-88.306	1.00 86.84	FS6
ATOM	39147	CZ	TYR	F	33	167.923	103.821	-89.006	1.00 86.84	FS6
ATOM	39148	OH	TYR	F	33	168.713	102.697	-88.871	1.00 86.84	FS6
ATOM	39149	C	TYR	F	33	163.037	107.834	-90.100	1.00105.10	FS6
ATOM	39150	O	TYR	F	33	162.435	107.587	-89.058	1.00105.10	FS6
ATOM	39151	N	GLY	F	34	162.666	108.798	-90.931	1.00 79.91	FS6
ATOM	39152	CA	GLY	F	34	161.502	109.606	-90.625	1.00 79.91	FS6
ATOM	39153	C	GLY	F	34	161.857	111.021	-90.215	1.00 79.91	FS6
ATOM	39154	O	GLY	F	34	161.047	111.712	-89.600	1.00 79.91	FS6
ATOM	39155	N	ALA	F	35	163.064	111.462	-90.551	1.00123.58	FS6
ATOM	39156	CA	ALA	F	35	163.488	112.813	-90.205	1.00123.58	FS6
ATOM	39157	CB	ALA	F	35	165.009	112.882	-90.088	1.00 86.96	FS6
ATOM	39158	C	ALA	F	35	162.997	113.821	-91.237	1.00123.58	FS6
ATOM	39159	O	ALA	F	35	163.471	113.863	-92.374	1.00123.58	FS6
ATOM	39160	N	ARG	F	36	162.026	114.624	-90.831	1.00 66.53	FS6
ATOM	39161	CA	ARG	F	36	161.465	115.652	-91.690	1.00 66.53	FS6
ATOM	39162	CB	ARG	F	36	159.987	115.831	-91.347	1.00111.55	FS6
ATOM	39163	CG	ARG	F	36	159.297	116.989	-92.023	1.00111.55	FS6
ATOM	39164	CD	ARG	F	36	157.928	117.191	-91.396	1.00111.55	FS6
ATOM	39165	NE	ARG	F	36	157.344	118.486	-91.730	1.00111.55	FS6
ATOM	39166	CZ	ARG	F	36	157.965	119.651	-91.568	1.00111.55	FS6
ATOM	39167	NH1	ARG	F	36	159.199	119.693	-91.077	1.00111.55	FS6
ATOM	39168	NH2	ARG	F	36	157.346	120.779	-91.887	1.00111.55	FS6
ATOM	39169	C	ARG	F	36	162.255	116.945	-91.437	1.00 66.53	FS6
ATOM	39170	O	ARG	F	36	162.040	117.639	-90.438	1.00 66.53	FS6
ATOM	39171	N	VAL	F	37	163.174	117.257	-92.348	1.00 76.17	FS6
ATOM	39172	CA	VAL	F	37	164.024	118.444	-92.232	1.00 76.17	FS6
ATOM	39173	CB	VAL	F	37	164.997	118.535	-93.416	1.00 51.21	FS6
ATOM	39174	CG1	VAL	F	37	166.098	119.548	-93.084	1.00 51.21	FS6
ATOM	39175	CG2	VAL	F	37	165.559	117.150	-93.753	1.00 51.21	FS6
ATOM	39176	C	VAL	F	37	163.302	119.795	-92.139	1.00 76.17	FS6
ATOM	39177	O	VAL	F	37	162.733	120.276	-93.123	1.00 76.17	FS6
ATOM	39178	N	GLU	F	38	163.354	120.418	-90.965	1.00 78.23	FS6
ATOM	39179	CA	GLU	F	38	162.701	121.711	-90.769	1.00 78.23	FS6
ATOM	39180	CB	GLU	F	38	162.189	121.850	-89.334	1.00100.61	FS6



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ATOM	39181	CG	GLU	F	38	161.126	120.841	-88.949	1.00100.61	FS6
ATOM	39182	CD	GLU	F	38	160.357	121.264	-87.713	1.00100.61	FS6
ATOM	39183	OE1	GLU	F	38	159.636	120.421	-87.137	1.00100.61	FS6
ATOM	39184	OE2	GLU	F	38	160.467	122.445	-87.322	1.00100.61	FS6
ATOM	39185	C	GLU	F	38	163.602	122.897	-91.107	1.00 78.23	FS6
ATOM	39186	O	GLU	F	38	163.150	124.044	-91.110	1.00 78.23	FS6
ATOM	39187	N	LYS	F	39	164.877	122.612	-91.359	1.00 91.94	FS6
ATOM	39188	CA	LYS	F	39	165.867	123.617	-91.755	1.00 91.94	FS6
ATOM	39189	CB	LYS	F	39	165.570	125.000	-91.166	1.00 89.86	FS6
ATOM	39190	CG	LYS	F	39	165.890	125.203	-89.715	1.00 89.86	FS6
ATOM	39191	CD	LYS	F	39	165.720	126.681	-89.422	1.00 89.86	FS6
ATOM	39192	CE	LYS	F	39	165.758	126.989	-87.944	1.00 89.86	FS6
ATOM	39193	NZ	LYS	F	39	165.498	128.437	-87.714	1.00 89.86	FS6
ATOM	39194	C	LYS	F	39	167.294	123.226	-91.429	1.00 91.94	FS6
ATOM	39195	O	LYS	F	39	167.540	122.267	-90.701	1.00 91.94	FS6
ATOM	39196	N	VAL	F	40	168.235	123.986	-91.977	1.00 78.12	FS6
ATOM	39197	CA	VAL	F	40	169.642	123.691	-91.780	1.00 78.12	FS6
ATOM	39198	CB	VAL	F	40	170.126	122.730	-92.896	1.00 74.89	FS6
ATOM	39199	CG1	VAL	F	40	169.322	122.979	-94.161	1.00 74.89	FS6
ATOM	39200	CG2	VAL	F	40	171.617	122.919	-93.166	1.00 74.89	FS6
ATOM	39201	C	VAL	F	40	170.570	124.903	-91.702	1.00 78.12	FS6
ATOM	39202	O	VAL	F	40	170.257	125.989	-92.183	1.00 78.12	FS6
ATOM	39203	N	GLU	F	41	171.709	124.687	-91.056	1.00 85.64	FS6
ATOM	39204	CA	GLU	F	41	172.744	125.689	-90.884	1.00 85.64	FS6
ATOM	39205	CB	GLU	F	41	172.707	126.266	-89.471	1.00125.28	FS6
ATOM	39206	CG	GLU	F	41	171.408	126.965	-89.117	1.00125.28	FS6
ATOM	39207	CD	GLU	F	41	171.380	127.441	-87.674	1.00125.28	FS6
ATOM	39208	OE1	GLU	F	41	172.314	128.165	-87.272	1.00125.28	FS6
ATOM	39209	OE2	GLU	F	41	170.426	127.096	-86.943	1.00125.28	FS6
ATOM	39210	C	GLU	F	41	174.021	124.891	-91.082	1.00 85.64	FS6
ATOM	39211	O	GLU	F	41	174.200	123.843	-90.458	1.00 85.64	FS6
ATOM	39212	N	GLU	F	42	174.903	125.373	-91.952	1.00123.57	FS6
ATOM	39213	CA	GLU	F	42	176.148	124.668	-92.235	1.00123.57	FS6
ATOM	39214	CB	GLU	F	42	176.086	124.094	-93.654	1.00120.81	FS6
ATOM	39215	CG	GLU	F	42	177.234	123.175	-94.035	1.00120.81	FS6
ATOM	39216	CD	GLU	F	42	176.940	122.378	-95.301	1.00120.81	FS6
ATOM	39217	OE1	GLU	F	42	177.834	121.643	-95.774	1.00120.81	FS6
ATOM	39218	OE2	GLU	F	42	175.808	122.482	-95.822	1.00120.81	FS6
ATOM	39219	C	GLU	F	42	177.354	125.587	-92.085	1.00123.57	FS6
ATOM	39220	O	GLU	F	42	177.796	126.201	-93.053	1.00123.57	FS6
ATOM	39221	N	LEU	F	43	177.883	125.672	-90.867	1.00 86.96	FS6
ATOM	39222	CA	LEU	F	43	179.040	126.522	-90.577	1.00 86.96	FS6
ATOM	39223	CB	LEU	F	43	179.286	126.597	-89.064	1.00 80.09	FS6
ATOM	39224	CG	LEU	F	43	178.192	127.164	-88.151	1.00 80.09	FS6
ATOM	39225	CD1	LEU	F	43	177.915	128.601	-88.525	1.00 80.09	FS6
ATOM	39226	CD2	LEU	F	43	176.925	126.329	-88.259	1.00 80.09	FS6
ATOM	39227	C	LEU	F	43	180.307	126.021	-91.270	1.00 86.96	FS6
ATOM	39228	O	LEU	F	43	181.243	126.792	-91.512	1.00 86.96	FS6
ATOM	39229	N	GLY	F	44	180.337	124.727	-91.577	1.00119.64	FS6
ATOM	39230	CA	GLY	F	44	181.489	124.158	-92.248	1.00119.64	FS6
ATOM	39231	C	GLY	F	44	182.678	123.898	-91.346	1.00119.64	FS6
ATOM	39232	O	GLY	F	44	182.571	123.164	-90.366	1.00119.64	FS6
ATOM	39233	N	LEU	F	45	183.816	124.502	-91.675	1.00102.86	FS6
ATOM	39234	CA	LEU	F	45	185.035	124.320	-90.894	1.00102.86	FS6
ATOM	39235	CB	LEU	F	45	186.269	124.561	-91.761	1.00 90.41	FS6
ATOM	39236	CG	LEU	F	45	186.630	123.490	-92.778	1.00 90.41	FS6
ATOM	39237	CD1	LEU	F	45	188.124	123.576	-93.066	1.00 90.41	FS6
ATOM	39238	CD2	LEU	F	45	186.289	122.118	-92.220	1.00 90.41	FS6
ATOM	39239	C	LEU	F	45	185.154	125.206	-89.670	1.00102.86	FS6
ATOM	39240	O	LEU	F	45	184.801	126.382	-89.708	1.00102.86	FS6
ATOM	39241	N	ARG	F	46	185.671	124.635	-88.586	1.00 86.98	FS6
ATOM	39242	CA	ARG	F	46	185.878	125.386	-87.355	1.00 86.98	FS6
ATOM	39243	CB	ARG	F	46	184.602	125.397	-86.507	1.00124.58	FS6
ATOM	39244	CG	ARG	F	46	183.444	126.153	-87.154	1.00124.58	FS6
ATOM	39245	CD	ARG	F	46	182.491	126.707	-86.116	1.00124.58	FS6
ATOM	39246	NE	ARG	F	46	183.165	127.660	-85.239	1.00124.58	FS6
ATOM	39247	CZ	ARG	F	46	182.614	128.226	-84.168	1.00124.58	FS6
ATOM	39248	NH1	ARG	F	46	181.361	127.942	-83.822	1.00124.58	FS6
ATOM	39249	NH2	ARG	F	46	183.320	129.080	-83.435	1.00124.58	FS6
ATOM	39250	C	ARG	F	46	187.052	124.814	-86.562	1.00 86.98	FS6
ATOM	39251	O	ARG	F	46	187.339	123.613	-86.635	1.00 86.98	FS6
ATOM	39252	N	ARG	F	47	187.738	125.687	-85.825	1.00 93.99	FS6
ATOM	39253	CA	ARG	F	47	188.895	125.290	-85.027	1.00 93.99	FS6
ATOM	39254	CB	ARG	F	47	189.740	126.514	-84.660	1.00164.19	FS6
ATOM	39255	CG	ARG	F	47	190.007	127.458	-85.819	1.00164.19	FS6
ATOM	39256	CD	ARG	F	47	190.588	126.727	-87.021	1.00164.19	FS6
ATOM	39257	NE	ARG	F	47	190.606	127.568	-88.217	1.00164.19	FS6



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ATOM	39258	CZ	ARG	F	47	190.833	127.118	-89.450	1.00164.19	FS6
ATOM	39259	NH1	ARG	F	47	191.065	125.827	-89.657	1.00164.19	FS6
ATOM	39260	NH2	ARG	F	47	190.815	127.957	-90.480	1.00164.19	FS6
ATOM	39261	C	ARG	F	47	188.439	124.599	-83.755	1.00 93.99	FS6
ATOM	39262	O	ARG	F	47	187.911	125.246	-82.855	1.00 93.99	FS6
ATOM	39263	N	LEU	F	48	188.646	123.286	-83.685	1.00 70.55	FS6
ATOM	39264	CA	LEU	F	48	188.255	122.509	-82.513	1.00 70.55	FS6
ATOM	39265	CB	LEU	F	48	188.400	121.025	-82.806	1.00 48.29	FS6
ATOM	39266	CG	LEU	F	48	187.441	120.523	-83.878	1.00 48.29	FS6
ATOM	39267	CD1	LEU	F	48	187.544	119.012	-83.973	1.00 48.29	FS6
ATOM	39268	CD2	LEU	F	48	186.010	120.923	-83.525	1.00 48.29	FS6
ATOM	39269	C	LEU	F	48	189.062	122.852	-81.266	1.00 70.55	FS6
ATOM	39270	O	LEU	F	48	190.250	123.171	-81.355	1.00 70.55	FS6
ATOM	39271	N	ALA	F	49	188.416	122.787	-80.103	1.00 69.77	FS6
ATOM	39272	CA	ALA	F	49	189.095	123.087	-78.844	1.00 69.77	FS6
ATOM	39273	CB	ALA	F	49	188.117	122.981	-77.684	1.00112.82	FS6
ATOM	39274	C	ALA	F	49	190.257	122.112	-78.645	1.00 69.77	FS6
ATOM	39275	O	ALA	F	49	191.326	122.481	-78.154	1.00 69.77	FS6
ATOM	39276	N	TYR	F	50	190.025	120.863	-79.032	1.00 63.40	FS6
ATOM	39277	CA	TYR	F	50	191.021	119.807	-78.934	1.00 63.40	FS6
ATOM	39278	CB	TYR	F	50	190.755	118.940	-77.706	1.00 62.26	FS6
ATOM	39279	CG	TYR	F	50	189.377	118.333	-77.699	1.00 62.26	FS6
ATOM	39280	CD1	TYR	F	50	188.266	119.075	-77.292	1.00 62.26	FS6
ATOM	39281	CE1	TYR	F	50	186.980	118.538	-77.346	1.00 62.26	FS6
ATOM	39282	CD2	TYR	F	50	189.172	117.038	-78.158	1.00 62.26	FS6
ATOM	39283	CE2	TYR	F	50	187.892	116.489	-78.220	1.00 62.26	FS6
ATOM	39284	CZ	TYR	F	50	186.800	117.242	-77.815	1.00 62.26	FS6
ATOM	39285	OH	TYR	F	50	185.535	116.692	-77.893	1.00 62.26	FS6
ATOM	39286	C	TYR	F	50	190.857	118.974	-80.200	1.00 63.40	FS6
ATOM	39287	O	TYR	F	50	189.801	119.001	-80.824	1.00 63.40	FS6
ATOM	39288	N	PRO	F	51	191.890	118.218	-80.595	1.00 55.80	FS6
ATOM	39289	CD	PRO	F	51	193.155	117.969	-79.887	1.00 72.84	FS6
ATOM	39290	CA	PRO	F	51	191.814	117.395	-81.803	1.00 55.80	FS6
ATOM	39291	CB	PRO	F	51	193.225	116.843	-81.918	1.00 72.84	FS6
ATOM	39292	CG	PRO	F	51	193.594	116.646	-80.485	1.00 72.84	FS6
ATOM	39293	C	PRO	F	51	190.781	116.276	-81.759	1.00 55.80	FS6
ATOM	39294	O	PRO	F	51	190.653	115.580	-80.759	1.00 55.80	FS6
ATOM	39295	N	ILE	F	52	190.046	116.106	-82.850	1.00 94.90	FS6
ATOM	39296	CA	ILE	F	52	189.059	115.040	-82.940	1.00 94.90	FS6
ATOM	39297	CB	ILE	F	52	187.645	115.583	-83.249	1.00 59.19	FS6
ATOM	39298	CG2	ILE	F	52	186.701	114.429	-83.557	1.00 59.19	FS6
ATOM	39299	CG1	ILE	F	52	187.113	116.376	-82.053	1.00 59.19	FS6
ATOM	39300	CD1	ILE	F	52	185.681	116.883	-82.236	1.00 59.19	FS6
ATOM	39301	C	ILE	F	52	189.515	114.117	-84.067	1.00 94.90	FS6
ATOM	39302	O	ILE	F	52	189.342	114.423	-85.254	1.00 94.90	FS6
ATOM	39303	N	ALA	F	53	190.109	112.991	-83.676	1.00 87.26	FS6
ATOM	39304	CA	ALA	F	53	190.638	112.005	-84.611	1.00 87.26	FS6
ATOM	39305	CB	ALA	F	53	189.579	111.642	-85.660	1.00 36.38	FS6
ATOM	39306	C	ALA	F	53	191.893	112.590	-85.270	1.00 87.26	FS6
ATOM	39307	O	ALA	F	53	191.988	112.686	-86.497	1.00 87.26	FS6
ATOM	39308	N	LYS	F	54	192.846	112.986	-84.422	1.00101.13	FS6
ATOM	39309	CA	LYS	F	54	194.127	113.575	-84.827	1.00101.13	FS6
ATOM	39310	CB	LYS	F	54	194.899	112.624	-85.748	1.00109.36	FS6
ATOM	39311	CG	LYS	F	54	194.745	111.143	-85.419	1.00109.36	FS6
ATOM	39312	CD	LYS	F	54	195.106	110.825	-83.979	1.00109.36	FS6
ATOM	39313	CE	LYS	F	54	194.714	109.395	-83.624	1.00109.36	FS6
ATOM	39314	NZ	LYS	F	54	194.904	109.109	-82.173	1.00109.36	FS6
ATOM	39315	C	LYS	F	54	193.924	114.910	-85.536	1.00101.13	FS6
ATOM	39316	O	LYS	F	54	194.753	115.817	-85.425	1.00101.13	FS6
ATOM	39317	N	ASP	F	55	192.811	115.009	-86.260	1.00 93.89	FS6
ATOM	39318	CA	ASP	F	55	192.428	116.198	-87.014	1.00 93.89	FS6
ATOM	39319	CB	ASP	F	55	191.167	115.883	-87.818	1.00127.09	FS6
ATOM	39320	CG	ASP	F	55	191.104	116.635	-89.123	1.00127.09	FS6
ATOM	39321	OD1	ASP	F	55	191.304	117.869	-89.114	1.00127.09	FS6
ATOM	39322	OD2	ASP	F	55	190.844	115.987	-90.158	1.00127.09	FS6
ATOM	39323	C	ASP	F	55	192.147	117.360	-86.052	1.00 93.89	FS6
ATOM	39324	O	ASP	F	55	191.294	117.243	-85.174	1.00 93.89	FS6
ATOM	39325	N	PRO	F	56	192.860	118.493	-86.204	1.00 51.36	FS6
ATOM	39326	CD	PRO	F	56	194.076	118.639	-87.022	1.00 86.12	FS6
ATOM	39327	CA	PRO	F	56	192.685	119.670	-85.345	1.00 51.36	FS6
ATOM	39328	CB	PRO	F	56	194.081	120.262	-85.303	1.00 86.12	FS6
ATOM	39329	CG	PRO	F	56	194.518	120.068	-86.709	1.00 86.12	FS6
ATOM	39330	C	PRO	F	56	191.652	120.686	-85.842	1.00 51.36	FS6
ATOM	39331	O	PRO	F	56	191.673	121.851	-85.428	1.00 51.36	FS6
ATOM	39332	N	GLN	F	57	190.759	120.238	-86.727	1.00 56.57	FS6
ATOM	39333	CA	GLN	F	57	189.694	121.074	-87.294	1.00 56.57	FS6
ATOM	39334	CB	GLN	F	57	190.107	121.657	-88.649	1.00147.08	FS6



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ATOM	39335	CG	GLN	F	57	191.390	122.461	-88.647	1.00147.08	FS6
ATOM	39336	CD	GLN	F	57	191.804	122.895	-90.042	1.00147.08	FS6
ATOM	39337	OE1	GLN	F	57	192.857	123.507	-90.226	1.00147.08	FS6
ATOM	39338	NE2	GLN	F	57	190.975	122.580	-91.034	1.00147.08	FS6
ATOM	39339	C	GLN	F	57	188.497	120.164	-87.517	1.00 56.57	FS6
ATOM	39340	O	GLN	F	57	188.599	118.940	-87.378	1.00 56.57	FS6
ATOM	39341	N	GLY	F	58	187.366	120.753	-87.880	1.00 61.67	FS6
ATOM	39342	CA	GLY	F	58	186.187	119.943	-88.116	1.00 61.67	FS6
ATOM	39343	C	GLY	F	58	185.176	120.582	-89.045	1.00 61.67	FS6
ATOM	39344	O	GLY	F	58	185.109	121.812	-89.167	1.00 61.67	FS6
ATOM	39345	N	TYR	F	59	184.393	119.737	-89.710	1.00 84.05	FS6
ATOM	39346	CA	TYR	F	59	183.355	120.212	-90.611	1.00 84.05	FS6
ATOM	39347	CB	TYR	F	59	183.421	119.482	-91.949	1.00 87.66	FS6
ATOM	39348	CG	TYR	F	59	182.661	120.214	-93.019	1.00 87.66	FS6
ATOM	39349	CD1	TYR	F	59	183.119	121.439	-93.499	1.00 87.66	FS6
ATOM	39350	CE1	TYR	F	59	182.399	122.156	-94.436	1.00 87.66	FS6
ATOM	39351	CD2	TYR	F	59	181.457	119.720	-93.509	1.00 87.66	FS6
ATOM	39352	CE2	TYR	F	59	180.725	120.433	-94.448	1.00 87.66	FS6
ATOM	39353	CZ	TYR	F	59	181.203	121.651	-94.906	1.00 87.66	FS6
ATOM	39354	OH	TYR	F	59	180.485	122.370	-95.828	1.00 87.66	FS6
ATOM	39355	C	TYR	F	59	182.002	119.953	-89.946	1.00 84.05	FS6
ATOM	39356	O	TYR	F	59	181.553	118.807	-89.855	1.00 84.05	FS6
ATOM	39357	N	PHE	F	60	181.354	121.024	-89.494	1.00 96.09	FS6
ATOM	39358	CA	PHE	F	60	180.079	120.913	-88.797	1.00 96.09	FS6
ATOM	39359	CB	PHE	F	60	180.030	121.906	-87.633	1.00113.21	FS6
ATOM	39360	CG	PHE	F	60	181.086	121.681	-86.586	1.00113.21	FS6
ATOM	39361	CD1	PHE	F	60	182.416	122.007	-86.832	1.00113.21	FS6
ATOM	39362	CD2	PHE	F	60	180.744	121.170	-85.340	1.00113.21	FS6
ATOM	39363	CE1	PHE	F	60	183.388	121.830	-85.850	1.00113.21	FS6
ATOM	39364	CE2	PHE	F	60	181.706	120.989	-84.352	1.00113.21	FS6
ATOM	39365	CZ	PHE	F	60	183.030	121.320	-84.607	1.00113.21	FS6
ATOM	39366	C	PHE	F	60	178.802	121.084	-89.615	1.00 96.09	FS6
ATOM	39367	O	PHE	F	60	178.648	122.032	-90.386	1.00 96.09	FS6
ATOM	39368	N	LEU	F	61	177.884	120.150	-89.404	1.00 90.06	FS6
ATOM	39369	CA	LEU	F	61	176.580	120.143	-90.044	1.00 90.06	FS6
ATOM	39370	CB	LEU	F	61	176.313	118.794	-90.699	1.00 86.70	FS6
ATOM	39371	CG	LEU	F	61	177.010	118.600	-92.038	1.00 86.70	FS6
ATOM	39372	CD1	LEU	F	61	176.906	117.145	-92.478	1.00 86.70	FS6
ATOM	39373	CD2	LEU	F	61	176.372	119.538	-93.053	1.00 86.70	FS6
ATOM	39374	C	LEU	F	61	175.572	120.362	-88.932	1.00 90.06	FS6
ATOM	39375	O	LEU	F	61	175.841	120.036	-87.775	1.00 90.06	FS6
ATOM	39376	N	TRP	F	62	174.411	120.903	-89.276	1.00102.52	FS6
ATOM	39377	CA	TRP	F	62	173.391	121.153	-88.270	1.00102.52	FS6
ATOM	39378	CB	TRP	F	62	173.646	122.500	-87.594	1.00106.30	FS6
ATOM	39379	CG	TRP	F	62	172.730	122.784	-86.445	1.00106.30	FS6
ATOM	39380	CD2	TRP	F	62	171.434	123.384	-86.515	1.00106.30	FS6
ATOM	39381	CE2	TRP	F	62	170.944	123.474	-85.195	1.00106.30	FS6
ATOM	39382	CE3	TRP	F	62	170.637	123.856	-87.568	1.00106.30	FS6
ATOM	39383	CD1	TRP	F	62	172.966	122.534	-85.122	1.00106.30	FS6
ATOM	39384	NE1	TRP	F	62	171.898	122.948	-84.364	1.00106.30	FS6
ATOM	39385	CZ2	TRP	F	62	169.691	124.019	-84.899	1.00106.30	FS6
ATOM	39386	CZ3	TRP	F	62	169.392	124.396	-87.274	1.00106.30	FS6
ATOM	39387	CH2	TRP	F	62	168.932	124.473	-85.950	1.00106.30	FS6
ATOM	39388	C	TRP	F	62	171.989	121.145	-88.859	1.00102.52	FS6
ATOM	39389	O	TRP	F	62	171.625	122.037	-89.617	1.00102.52	FS6
ATOM	39390	N	TYR	F	63	171.207	120.130	-88.518	1.00100.14	FS6
ATOM	39391	CA	TYR	F	63	169.844	120.054	-89.005	1.00100.14	FS6
ATOM	39392	CB	TYR	F	63	169.615	118.819	-89.876	1.00100.02	FS6
ATOM	39393	CG	TYR	F	63	170.724	118.461	-90.830	1.00100.02	FS6
ATOM	39394	CD1	TYR	F	63	171.453	119.440	-91.500	1.00100.02	FS6
ATOM	39395	CE1	TYR	F	63	172.440	119.092	-92.433	1.00100.02	FS6
ATOM	39396	CD2	TYR	F	63	171.007	117.126	-91.109	1.00100.02	FS6
ATOM	39397	CE2	TYR	F	63	171.983	116.767	-92.035	1.00100.02	FS6
ATOM	39398	CZ	TYR	F	63	172.695	117.750	-92.695	1.00100.02	FS6
ATOM	39399	OH	TYR	F	63	173.640	117.384	-93.630	1.00100.02	FS6
ATOM	39400	C	TYR	F	63	168.907	119.958	-87.815	1.00100.14	FS6
ATOM	39401	O	TYR	F	63	169.227	119.330	-86.806	1.00100.14	FS6
ATOM	39402	N	GLN	F	64	167.749	120.589	-87.945	1.00 83.61	FS6
ATOM	39403	CA	GLN	F	64	166.719	120.556	-86.920	1.00 83.61	FS6
ATOM	39404	CB	GLN	F	64	166.293	121.974	-86.565	1.00 76.65	FS6
ATOM	39405	CG	GLN	F	64	164.852	122.092	-86.129	1.00 76.65	FS6
ATOM	39406	CD	GLN	F	64	164.501	123.504	-85.735	1.00 76.65	FS6
ATOM	39407	OE1	GLN	F	64	164.960	124.002	-84.703	1.00 76.65	FS6
ATOM	39408	NE2	GLN	F	64	163.697	124.170	-86.561	1.00 76.65	FS6
ATOM	39409	C	GLN	F	64	165.558	119.799	-87.550	1.00 83.61	FS6
ATOM	39410	O	GLN	F	64	164.898	120.316	-88.443	1.00 83.61	FS6
ATOM	39411	N	VAL	F	65	165.309	118.575	-87.104	1.00 95.52	FS6



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ATOM	39412	CA	VAL	F	65	164.226	117.803	-87.694	1.00	95.52	FS6
ATOM	39413	CB	VAL	F	65	164.690	116.377	-88.099	1.00	76.27	FS6
ATOM	39414	CG1	VAL	F	65	166.104	116.437	-88.650	1.00	76.27	FS6
ATOM	39415	CG2	VAL	F	65	164.599	115.422	-86.911	1.00	76.27	FS6
ATOM	39416	C	VAL	F	65	163.010	117.652	-86.799	1.00	95.52	FS6
ATOM	39417	O	VAL	F	65	162.922	118.236	-85.719	1.00	95.52	FS6
ATOM	39418	N	GLU	F	66	162.072	116.859	-87.295	1.00	71.04	FS6
ATOM	39419	CA	GLU	F	66	160.834	116.535	-86.615	1.00	71.04	FS6
ATOM	39420	CB	GLU	F	66	159.682	117.334	-87.220	1.00131.90		FS6
ATOM	39421	CG	GLU	F	66	158.301	116.858	-86.807	1.00131.90		FS6
ATOM	39422	CD	GLU	F	66	157.196	117.495	-87.631	1.00131.90		FS6
ATOM	39423	OE1	GLU	F	66	157.026	118.732	-87.547	1.00131.90		FS6
ATOM	39424	OE2	GLU	F	66	156.503	116.757	-88.368	1.00131.90		FS6
ATOM	39425	C	GLU	F	66	160.695	115.057	-86.958	1.00	71.04	FS6
ATOM	39426	O	GLU	F	66	160.473	114.717	-88.115	1.00	71.04	FS6
ATOM	39427	N	MET	F	67	160.850	114.174	-85.977	1.00	61.18	FS6
ATOM	39428	CA	MET	F	67	160.752	112.744	-86.263	1.00	61.18	FS6
ATOM	39429	CB	MET	F	67	162.129	112.192	-86.658	1.00	88.77	FS6
ATOM	39430	CG	MET	F	67	163.169	112.249	-85.540	1.00	88.77	FS6
ATOM	39431	SD	MET	F	67	164.659	111.259	-85.850	1.00	88.77	FS6
ATOM	39432	CE	MET	F	67	164.116	109.635	-85.268	1.00	88.77	FS6
ATOM	39433	C	MET	F	67	160.198	111.904	-85.117	1.00	61.18	FS6
ATOM	39434	O	MET	F	67	160.172	112.337	-83.961	1.00	61.18	FS6
ATOM	39435	N	PRO	F	68	159.742	110.683	-85.430	1.00	92.81	FS6
ATOM	39436	CD	PRO	F	68	159.528	110.136	-86.779	1.00113.21		FS6
ATOM	39437	CA	PRO	F	68	159.194	109.780	-84.419	1.00	92.81	FS6
ATOM	39438	CB	PRO	F	68	158.786	108.563	-85.239	1.00113.21		FS6
ATOM	39439	CG	PRO	F	68	158.396	109.169	-86.547	1.00113.21		FS6
ATOM	39440	C	PRO	F	68	160.274	109.453	-83.398	1.00	92.81	FS6
ATOM	39441	O	PRO	F	68	161.248	108.760	-83.712	1.00	92.81	FS6
ATOM	39442	N	GLU	F	69	160.095	109.965	-82.184	1.00	92.23	FS6
ATOM	39443	CA	GLU	F	69	161.038	109.763	-81.088	1.00	92.23	FS6
ATOM	39444	CB	GLU	F	69	160.438	110.293	-79.785	1.00104.46		FS6
ATOM	39445	CG	GLU	F	69	159.051	110.893	-79.944	1.00104.46		FS6
ATOM	39446	CD	GLU	F	69	157.984	109.842	-80.203	1.00104.46		FS6
ATOM	39447	OE1	GLU	F	69	158.095	109.111	-81.212	1.00104.46		FS6
ATOM	39448	OE2	GLU	F	69	157.033	109.745	-79.393	1.00104.46		FS6
ATOM	39449	C	GLU	F	69	161.488	108.316	-80.891	1.00	92.23	FS6
ATOM	39450	O	GLU	F	69	162.642	108.066	-80.537	1.00	92.23	FS6
ATOM	39451	N	ASP	F	70	160.585	107.367	-81.125	1.00	68.47	FS6
ATOM	39452	CA	ASP	F	70	160.900	105.948	-80.957	1.00	68.47	FS6
ATOM	39453	CB	ASP	F	70	159.644	105.112	-81.199	1.00157.84		FS6
ATOM	39454	CG	ASP	F	70	159.203	105.138	-82.647	1.00157.84		FS6
ATOM	39455	OD1	ASP	F	70	159.041	106.249	-83.195	1.00157.84		FS6
ATOM	39456	OD2	ASP	F	70	159.019	104.051	-83.237	1.00157.84		FS6
ATOM	39457	C	ASP	F	70	162.029	105.438	-81.872	1.00	68.47	FS6
ATOM	39458	O	ASP	F	70	162.397	104.259	-81.811	1.00	68.47	FS6
ATOM	39459	N	ARG	F	71	162.584	106.312	-82.709	1.00	81.04	FS6
ATOM	39460	CA	ARG	F	71	163.648	105.898	-83.618	1.00	81.04	FS6
ATOM	39461	CB	ARG	F	71	163.106	105.822	-85.046	1.00138.86		FS6
ATOM	39462	CG	ARG	F	71	161.980	104.825	-85.212	1.00138.86		FS6
ATOM	39463	CD	ARG	F	71	162.205	103.944	-86.425	1.00138.86		FS6
ATOM	39464	NE	ARG	F	71	162.203	104.708	-87.669	1.00138.86		FS6
ATOM	39465	CZ	ARG	F	71	162.394	104.173	-88.873	1.00138.86		FS6
ATOM	39466	NH1	ARG	F	71	162.607	102.868	-88.993	1.00138.86		FS6
ATOM	39467	NH2	ARG	F	71	162.359	104.937	-89.958	1.00138.86		FS6
ATOM	39468	C	ARG	F	71	164.887	106.787	-83.593	1.00	81.04	FS6
ATOM	39469	O	ARG	F	71	165.870	106.511	-84.279	1.00	81.04	FS6
ATOM	39470	N	VAL	F	72	164.844	107.850	-82.800	1.00	65.09	FS6
ATOM	39471	CA	VAL	F	72	165.971	108.768	-82.706	1.00	65.09	FS6
ATOM	39472	CB	VAL	F	72	165.768	109.770	-81.565	1.00	74.44	FS6
ATOM	39473	CG1	VAL	F	72	166.913	110.768	-81.532	1.00	74.44	FS6
ATOM	39474	CG2	VAL	F	72	164.453	110.480	-81.746	1.00	74.44	FS6
ATOM	39475	C	VAL	F	72	167.297	108.054	-82.480	1.00	65.09	FS6
ATOM	39476	O	VAL	F	72	168.256	108.262	-83.216	1.00	65.09	FS6
ATOM	39477	N	ASN	F	73	167.356	107.212	-81.460	1.00	73.48	FS6
ATOM	39478	CA	ASN	F	73	168.591	106.506	-81.171	1.00	73.48	FS6
ATOM	39479	CB	ASN	F	73	168.411	105.626	-79.931	1.00	86.72	FS6
ATOM	39480	CG	ASN	F	73	168.638	106.398	-78.636	1.00	86.72	FS6
ATOM	39481	OD1	ASN	F	73	169.778	106.591	-78.202	1.00	86.72	FS6
ATOM	39482	ND2	ASN	F	73	167.553	106.860	-78.028	1.00	86.72	FS6
ATOM	39483	C	ASN	F	73	169.128	105.695	-82.345	1.00	73.48	FS6
ATOM	39484	O	ASN	F	73	170.338	105.671	-82.569	1.00	73.48	FS6
ATOM	39485	N	ASP	F	74	168.251	105.040	-83.104	1.00	75.79	FS6
ATOM	39486	CA	ASP	F	74	168.707	104.255	-84.254	1.00	75.79	FS6
ATOM	39487	CB	ASP	F	74	167.562	103.424	-84.825	1.00101.90		FS6
ATOM	39488	CG	ASP	F	74	166.697	102.821	-83.743	1.00101.90		FS6



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ATOM	39489	OD1	ASP	F	74	167.256	102.305	-82.753	1.00101.90	FS6
ATOM	39490	OD2	ASP	F	74	165.456	102.861	-83.882	1.00101.90	FS6
ATOM	39491	C	ASP	F	74	169.251	105.196	-85.325	1.00 75.79	FS6
ATOM	39492	O	ASP	F	74	170.350	104.995	-85.842	1.00 75.79	FS6
ATOM	39493	N	LEU	F	75	168.476	106.230	-85.644	1.00 65.14	FS6
ATOM	39494	CA	LEU	F	75	168.874	107.224	-86.634	1.00 65.14	FS6
ATOM	39495	CB	LEU	F	75	167.914	108.424	-86.580	1.00 62.93	FS6
ATOM	39496	CG	LEU	F	75	168.238	109.726	-87.332	1.00 62.93	FS6
ATOM	39497	CD1	LEU	F	75	169.302	110.512	-86.592	1.00 62.93	FS6
ATOM	39498	CD2	LEU	F	75	168.688	109.415	-88.748	1.00 62.93	FS6
ATOM	39499	C	LEU	F	75	170.318	107.694	-86.416	1.00 65.14	FS6
ATOM	39500	O	LEU	F	75	171.012	108.063	-87.371	1.00 65.14	FS6
ATOM	39501	N	ALA	F	76	170.774	107.684	-85.167	1.00 73.22	FS6
ATOM	39502	CA	ALA	F	76	172.134	108.120	-84.884	1.00 73.22	FS6
ATOM	39503	CB	ALA	F	76	172.200	108.835	-83.531	1.00 43.25	FS6
ATOM	39504	C	ALA	F	76	173.135	106.968	-84.938	1.00 73.22	FS6
ATOM	39505	O	ALA	F	76	174.319	107.204	-85.170	1.00 73.22	FS6
ATOM	39506	N	ARG	F	77	172.684	105.732	-84.717	1.00 80.99	FS6
ATOM	39507	CA	ARG	F	77	173.605	104.599	-84.812	1.00 80.99	FS6
ATOM	39508	CB	ARG	F	77	172.900	103.253	-84.677	1.00141.00	FS6
ATOM	39509	CG	ARG	F	77	172.158	102.980	-83.404	1.00141.00	FS6
ATOM	39510	CD	ARG	F	77	171.389	101.687	-83.606	1.00141.00	FS6
ATOM	39511	NE	ARG	F	77	170.463	101.378	-82.522	1.00141.00	FS6
ATOM	39512	CZ	ARG	F	77	169.454	100.518	-82.636	1.00141.00	FS6
ATOM	39513	NH1	ARG	F	77	169.248	99.892	-83.790	1.00141.00	FS6
ATOM	39514	NH2	ARG	F	77	168.651	100.281	-81.604	1.00141.00	FS6
ATOM	39515	C	ARG	F	77	174.044	104.704	-86.254	1.00 80.99	FS6
ATOM	39516	O	ARG	F	77	175.232	104.653	-86.572	1.00 80.99	FS6
ATOM	39517	N	GLU	F	78	173.036	104.859	-87.113	1.00 71.12	FS6
ATOM	39518	CA	GLU	F	78	173.199	104.973	-88.557	1.00 71.12	FS6
ATOM	39519	CB	GLU	F	78	171.838	105.234	-89.206	1.00130.25	FS6
ATOM	39520	CG	GLU	F	78	171.827	105.142	-90.722	1.00130.25	FS6
ATOM	39521	CD	GLU	F	78	172.128	103.743	-91.222	1.00130.25	FS6
ATOM	39522	OE1	GLU	F	78	171.469	102.795	-90.743	1.00130.25	FS6
ATOM	39523	OE2	GLU	F	78	173.014	103.592	-92.095	1.00130.25	FS6
ATOM	39524	C	GLU	F	78	174.164	106.084	-88.932	1.00 71.12	FS6
ATOM	39525	O	GLU	F	78	175.140	105.854	-89.643	1.00 71.12	FS6
ATOM	39526	N	LEU	F	79	173.894	107.292	-88.457	1.00 64.35	FS6
ATOM	39527	CA	LEU	F	79	174.765	108.408	-88.773	1.00 64.35	FS6
ATOM	39528	CB	LEU	F	79	174.239	109.700	-88.135	1.00 39.67	FS6
ATOM	39529	CG	LEU	F	79	172.823	110.162	-88.515	1.00 39.67	FS6
ATOM	39530	CD1	LEU	F	79	172.670	111.667	-88.251	1.00 39.67	FS6
ATOM	39531	CD2	LEU	F	79	172.568	109.881	-89.983	1.00 39.67	FS6
ATOM	39532	C	LEU	F	79	176.216	108.164	-88.341	1.00 64.35	FS6
ATOM	39533	O	LEU	F	79	177.144	108.489	-89.079	1.00 64.35	FS6
ATOM	39534	N	ARG	F	80	176.419	107.579	-87.163	1.00 85.76	FS6
ATOM	39535	CA	ARG	F	80	177.774	107.326	-86.661	1.00 85.76	FS6
ATOM	39536	CB	ARG	F	80	177.732	106.807	-85.217	1.00 76.62	FS6
ATOM	39537	CG	ARG	F	80	176.950	107.644	-84.199	1.00 76.62	FS6
ATOM	39538	CD	ARG	F	80	176.974	106.948	-82.827	1.00 76.62	FS6
ATOM	39539	NE	ARG	F	80	175.935	107.420	-81.916	1.00 76.62	FS6
ATOM	39540	CZ	ARG	F	80	175.747	108.695	-81.593	1.00 76.62	FS6
ATOM	39541	NH1	ARG	F	80	176.533	109.632	-82.117	1.00 76.62	FS6
ATOM	39542	NH2	ARG	F	80	174.785	109.030	-80.738	1.00 76.62	FS6
ATOM	39543	C	ARG	F	80	178.567	106.321	-87.504	1.00 85.76	FS6
ATOM	39544	O	ARG	F	80	179.805	106.346	-87.508	1.00 85.76	FS6
ATOM	39545	N	ILE	F	81	177.851	105.437	-88.197	1.00 86.13	FS6
ATOM	39546	CA	ILE	F	81	178.455	104.396	-89.036	1.00 86.13	FS6
ATOM	39547	CB	ILE	F	81	177.383	103.661	-89.858	1.00 76.48	FS6
ATOM	39548	CG2	ILE	F	81	178.043	102.660	-90.794	1.00 76.48	FS6
ATOM	39549	CG1	ILE	F	81	176.402	102.962	-88.911	1.00 76.48	FS6
ATOM	39550	CD1	ILE	F	81	175.178	102.372	-89.590	1.00 76.48	FS6
ATOM	39551	C	ILE	F	81	179.521	104.896	-90.006	1.00 86.13	FS6
ATOM	39552	O	ILE	F	81	180.591	104.295	-90.138	1.00 86.13	FS6
ATOM	39553	N	ARG	F	82	179.213	105.984	-90.698	1.00101.10	FS6
ATOM	39554	CA	ARG	F	82	180.140	106.578	-91.650	1.00101.10	FS6
ATOM	39555	CB	ARG	F	82	179.522	107.858	-92.217	1.00115.63	FS6
ATOM	39556	CG	ARG	F	82	178.222	107.648	-92.995	1.00115.63	FS6
ATOM	39557	CD	ARG	F	82	178.506	107.460	-94.476	1.00115.63	FS6
ATOM	39558	NE	ARG	F	82	179.199	106.208	-94.769	1.00115.63	FS6
ATOM	39559	CZ	ARG	F	82	179.876	105.972	-95.889	1.00115.63	FS6
ATOM	39560	NH1	ARG	F	82	179.966	106.903	-96.830	1.00115.63	FS6
ATOM	39561	NH2	ARG	F	82	180.456	104.795	-96.076	1.00115.63	FS6
ATOM	39562	C	ARG	F	82	181.489	106.888	-90.979	1.00101.10	FS6
ATOM	39563	O	ARG	F	82	181.537	107.349	-89.832	1.00101.10	FS6
ATOM	39564	N	ASP	F	83	182.577	106.632	-91.702	1.00 76.62	FS6
ATOM	39565	CA	ASP	F	83	183.931	106.869	-91.194	1.00 76.62	FS6



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ATOM	39566	CB	ASP	F	83	184.951	106.122	-92.057	1.00194.45	FS6
ATOM	39567	CG	ASP	F	83	184.720	104.625	-92.067	1.00194.45	FS6
ATOM	39568	OD1	ASP	F	83	185.545	103.898	-92.660	1.00194.45	FS6
ATOM	39569	OD2	ASP	F	83	183.711	104.174	-91.483	1.00194.45	FS6
ATOM	39570	C	ASP	F	83	184.311	108.349	-91.127	1.00 76.62	FS6
ATOM	39571	O	ASP	F	83	185.094	108.761	-90.269	1.00 76.62	FS6
ATOM	39572	N	ASN	F	84	183.766	109.148	-92.036	1.00108.51	FS6
ATOM	39573	CA	ASN	F	84	184.061	110.573	-92.043	1.00108.51	FS6
ATOM	39574	CB	ASN	F	84	183.798	111.156	-93.425	1.00122.98	FS6
ATOM	39575	CG	ASN	F	84	184.892	110.807	-94.402	1.00122.98	FS6
ATOM	39576	OD1	ASN	F	84	186.006	111.328	-94.311	1.00122.98	FS6
ATOM	39577	ND2	ASN	F	84	184.592	109.907	-95.332	1.00122.98	FS6
ATOM	39578	C	ASN	F	84	183.245	111.296	-90.988	1.00108.51	FS6
ATOM	39579	O	ASN	F	84	183.574	112.416	-90.591	1.00108.51	FS6
ATOM	39580	N	VAL	F	85	182.171	110.654	-90.543	1.00 94.11	FS6
ATOM	39581	CA	VAL	F	85	181.341	111.225	-89.497	1.00 94.11	FS6
ATOM	39582	CB	VAL	F	85	179.931	110.621	-89.483	1.00 76.02	FS6
ATOM	39583	CG1	VAL	F	85	179.149	111.177	-88.316	1.00 76.02	FS6
ATOM	39584	CG2	VAL	F	85	179.218	110.948	-90.773	1.00 76.02	FS6
ATOM	39585	C	VAL	F	85	182.052	110.850	-88.211	1.00 94.11	FS6
ATOM	39586	O	VAL	F	85	182.089	109.676	-87.821	1.00 94.11	FS6
ATOM	39587	N	ARG	F	86	182.639	111.852	-87.570	1.00 86.14	FS6
ATOM	39588	CA	ARG	F	86	183.370	111.625	-86.339	1.00 86.14	FS6
ATOM	39589	CB	ARG	F	86	184.783	112.186	-86.489	1.00 87.20	FS6
ATOM	39590	CG	ARG	F	86	184.872	113.414	-87.368	1.00 87.20	FS6
ATOM	39591	CD	ARG	F	86	186.317	113.681	-87.761	1.00 87.20	FS6
ATOM	39592	NE	ARG	F	86	186.888	112.545	-88.479	1.00 87.20	FS6
ATOM	39593	CZ	ARG	F	86	188.079	112.555	-89.067	1.00 87.20	FS6
ATOM	39594	NH1	ARG	F	86	188.839	113.646	-89.026	1.00 87.20	FS6
ATOM	39595	NH2	ARG	F	86	188.503	111.473	-89.703	1.00 87.20	FS6
ATOM	39596	C	ARG	F	86	182.680	112.182	-85.091	1.00 86.14	FS6
ATOM	39597	O	ARG	F	86	183.182	112.034	-83.969	1.00 86.14	FS6
ATOM	39598	N	ARG	F	87	181.522	112.808	-85.291	1.00 65.04	FS6
ATOM	39599	CA	ARG	F	87	180.738	113.354	-84.189	1.00 65.04	FS6
ATOM	39600	CB	ARG	F	87	181.294	114.699	-83.731	1.00 59.97	FS6
ATOM	39601	CG	ARG	F	87	182.416	114.596	-82.712	1.00 59.97	FS6
ATOM	39602	CD	ARG	F	87	181.935	114.160	-81.330	1.00 59.97	FS6
ATOM	39603	NE	ARG	F	87	182.957	114.492	-80.337	1.00 59.97	FS6
ATOM	39604	CZ	ARG	F	87	184.055	113.775	-80.109	1.00 59.97	FS6
ATOM	39605	NH1	ARG	F	87	184.283	112.656	-80.790	1.00 59.97	FS6
ATOM	39606	NH2	ARG	F	87	184.948	114.202	-79.224	1.00 59.97	FS6
ATOM	39607	C	ARG	F	87	179.279	113.525	-84.558	1.00 65.04	FS6
ATOM	39608	O	ARG	F	87	178.938	114.178	-85.546	1.00 65.04	FS6
ATOM	39609	N	VAL	F	88	178.424	112.924	-83.741	1.00 79.42	FS6
ATOM	39610	CA	VAL	F	88	176.985	112.988	-83.922	1.00 79.42	FS6
ATOM	39611	CB	VAL	F	88	176.440	111.641	-84.433	1.00 62.23	FS6
ATOM	39612	CG1	VAL	F	88	174.921	111.619	-84.371	1.00 62.23	FS6
ATOM	39613	CG2	VAL	F	88	176.904	111.418	-85.853	1.00 62.23	FS6
ATOM	39614	C	VAL	F	88	176.355	113.312	-82.573	1.00 79.42	FS6
ATOM	39615	O	VAL	F	88	176.778	112.798	-81.539	1.00 79.42	FS6
ATOM	39616	N	MET	F	89	175.361	114.188	-82.581	1.00 62.82	FS6
ATOM	39617	CA	MET	F	89	174.675	114.548	-81.353	1.00 62.82	FS6
ATOM	39618	CB	MET	F	89	175.480	115.576	-80.564	1.00 86.69	FS6
ATOM	39619	CG	MET	F	89	174.819	115.944	-79.251	1.00 86.69	FS6
ATOM	39620	SD	MET	F	89	175.880	116.881	-78.149	1.00 86.69	FS6
ATOM	39621	CE	MET	F	89	175.470	118.544	-78.612	1.00 86.69	FS6
ATOM	39622	C	MET	F	89	173.277	115.085	-81.624	1.00 62.82	FS6
ATOM	39623	O	MET	F	89	173.106	116.170	-82.181	1.00 62.82	FS6
ATOM	39624	N	VAL	F	90	172.281	114.302	-81.227	1.00 78.83	FS6
ATOM	39625	CA	VAL	F	90	170.885	114.672	-81.402	1.00 78.83	FS6
ATOM	39626	CB	VAL	F	90	170.046	113.452	-81.776	1.00 54.95	FS6
ATOM	39627	CG1	VAL	F	90	168.622	113.877	-82.048	1.00 54.95	FS6
ATOM	39628	CG2	VAL	F	90	170.652	112.767	-82.982	1.00 54.95	FS6
ATOM	39629	C	VAL	F	90	170.345	115.267	-80.101	1.00 78.83	FS6
ATOM	39630	O	VAL	F	90	170.408	114.643	-79.043	1.00 78.83	FS6
ATOM	39631	N	VAL	F	91	169.804	116.473	-80.187	1.00 70.89	FS6
ATOM	39632	CA	VAL	F	91	169.290	117.148	-79.012	1.00 70.89	FS6
ATOM	39633	CB	VAL	F	91	170.087	118.450	-78.748	1.00 73.60	FS6
ATOM	39634	CG1	VAL	F	91	169.422	119.274	-77.650	1.00 73.60	FS6
ATOM	39635	CG2	VAL	F	91	171.509	118.109	-78.358	1.00 73.60	FS6
ATOM	39636	C	VAL	F	91	167.817	117.509	-79.117	1.00 70.89	FS6
ATOM	39637	O	VAL	F	91	167.347	117.931	-80.171	1.00 70.89	FS6
ATOM	39638	N	LYS	F	92	167.086	117.331	-78.022	1.00 68.52	FS6
ATOM	39639	CA	LYS	F	92	165.685	117.713	-78.006	1.00 68.52	FS6
ATOM	39640	CB	LYS	F	92	165.021	117.337	-76.692	1.00 77.34	FS6
ATOM	39641	CG	LYS	F	92	164.515	115.934	-76.620	1.00 77.34	FS6
ATOM	39642	CD	LYS	F	92	163.151	115.962	-75.982	1.00 77.34	FS6



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ATOM	39643	CE	LYS	F	92	162.909	114.728	-75.144	1.00	77.34	FS6
ATOM	39644	NZ	LYS	F	92	163.898	114.614	-74.027	1.00	77.34	FS6
ATOM	39645	C	LYS	F	92	165.712	119.224	-78.112	1.00	68.52	FS6
ATOM	39646	O	LYS	F	92	166.476	119.889	-77.412	1.00	68.52	FS6
ATOM	39647	N	SER	F	93	164.897	119.774	-78.993	1.00	56.56	FS6
ATOM	39648	CA	SER	F	93	164.875	121.213	-79.140	1.00	56.56	FS6
ATOM	39649	CB	SER	F	93	164.043	121.596	-80.360	1.00	99.87	FS6
ATOM	39650	OG	SER	F	93	164.521	120.919	-81.510	1.00	99.87	FS6
ATOM	39651	C	SER	F	93	164.266	121.787	-77.874	1.00	56.56	FS6
ATOM	39652	O	SER	F	93	163.480	121.120	-77.205	1.00	56.56	FS6
ATOM	39653	N	GLN	F	94	164.647	123.012	-77.531	1.00	48.31	FS6
ATOM	39654	CA	GLN	F	94	164.112	123.664	-76.343	1.00	48.31	FS6
ATOM	39655	CB	GLN	F	94	165.036	123.445	-75.149	1.00	98.27	FS6
ATOM	39656	CG	GLN	F	94	165.410	122.000	-74.920	1.00	98.27	FS6
ATOM	39657	CD	GLN	F	94	166.438	121.839	-73.822	1.00	98.27	FS6
ATOM	39658	OE1	GLN	F	94	167.229	120.891	-73.831	1.00	98.27	FS6
ATOM	39659	NE2	GLN	F	94	166.430	122.760	-72.861	1.00	98.27	FS6
ATOM	39660	C	GLN	F	94	163.969	125.157	-76.594	1.00	48.31	FS6
ATOM	39661	O	GLN	F	94	164.676	125.721	-77.432	1.00	48.31	FS6
ATOM	39662	N	GLU	F	95	163.043	125.790	-75.879	1.00	66.16	FS6
ATOM	39663	CA	GLU	F	95	162.830	127.225	-76.011	1.00	66.16	FS6
ATOM	39664	CB	GLU	F	95	161.679	127.674	-75.109	1.00	168.45	FS6
ATOM	39665	CG	GLU	F	95	160.332	127.037	-75.440	1.00	168.45	FS6
ATOM	39666	CD	GLU	F	95	160.354	125.513	-75.385	1.00	168.45	FS6
ATOM	39667	OE1	GLU	F	95	160.823	124.952	-74.370	1.00	168.45	FS6
ATOM	39668	OE2	GLU	F	95	159.894	124.874	-76.358	1.00	168.45	FS6
ATOM	39669	C	GLU	F	95	164.138	127.875	-75.568	1.00	66.16	FS6
ATOM	39670	O	GLU	F	95	164.770	127.437	-74.606	1.00	66.16	FS6
ATOM	39671	N	PRO	F	96	164.571	128.925	-76.269	1.00	83.22	FS6
ATOM	39672	CD	PRO	F	96	163.942	129.588	-77.425	1.00	111.96	FS6
ATOM	39673	CA	PRO	F	96	165.822	129.584	-75.895	1.00	83.22	FS6
ATOM	39674	CB	PRO	F	96	166.091	130.488	-77.091	1.00	111.96	FS6
ATOM	39675	CG	PRO	F	96	164.702	130.893	-77.502	1.00	111.96	FS6
ATOM	39676	C	PRO	F	96	165.763	130.360	-74.577	1.00	83.22	FS6
ATOM	39677	O	PRO	F	96	165.227	131.465	-74.519	1.00	83.22	FS6
ATOM	39678	N	PHE	F	97	166.322	129.779	-73.520	1.00	63.58	FS6
ATOM	39679	CA	PHE	F	97	166.349	130.432	-72.208	1.00	63.58	FS6
ATOM	39680	CB	PHE	F	97	166.804	129.430	-71.129	1.00	61.01	FS6
ATOM	39681	CG	PHE	F	97	166.694	129.951	-69.714	1.00	61.01	FS6
ATOM	39682	CD1	PHE	F	97	165.674	129.512	-68.877	1.00	61.01	FS6
ATOM	39683	CD2	PHE	F	97	167.601	130.898	-69.230	1.00	61.01	FS6
ATOM	39684	CE1	PHE	F	97	165.556	130.008	-67.582	1.00	61.01	FS6
ATOM	39685	CE2	PHE	F	97	167.495	131.403	-67.937	1.00	61.01	FS6
ATOM	39686	CZ	PHE	F	97	166.470	130.958	-67.110	1.00	61.01	FS6
ATOM	39687	C	PHE	F	97	167.319	131.629	-72.254	1.00	63.58	FS6
ATOM	39688	O	PHE	F	97	168.545	131.454	-72.228	1.00	63.58	FS6
ATOM	39689	N	LEU	F	98	166.778	132.843	-72.315	1.00	80.68	FS6
ATOM	39690	CA	LEU	F	98	167.617	134.034	-72.374	1.00	80.68	FS6
ATOM	39691	CB	LEU	F	98	166.834	135.205	-72.959	1.00	101.26	FS6
ATOM	39692	CG	LEU	F	98	166.069	134.899	-74.245	1.00	101.26	FS6
ATOM	39693	CD1	LEU	F	98	165.419	136.177	-74.747	1.00	101.26	FS6
ATOM	39694	CD2	LEU	F	98	167.010	134.314	-75.293	1.00	101.26	FS6
ATOM	39695	C	LEU	F	98	168.149	134.423	-71.006	1.00	80.68	FS6
ATOM	39696	O	LEU	F	98	167.937	133.725	-70.020	1.00	80.68	FS6
ATOM	39697	N	ALA	F	99	168.845	135.549	-70.963	1.00	83.77	FS6
ATOM	39698	CA	ALA	F	99	169.422	136.068	-69.731	1.00	83.77	FS6
ATOM	39699	CB	ALA	F	99	170.390	135.080	-69.150	1.00	23.25	FS6
ATOM	39700	C	ALA	F	99	170.151	137.335	-70.120	1.00	83.77	FS6
ATOM	39701	O	ALA	F	99	170.399	137.559	-71.307	1.00	83.77	FS6
ATOM	39702	N	ASN	F	100	170.497	138.160	-69.135	1.00	122.72	FS6
ATOM	39703	CA	ASN	F	100	171.195	139.416	-69.404	1.00	122.72	FS6
ATOM	39704	CB	ASN	F	100	172.521	139.149	-70.121	1.00	96.08	FS6
ATOM	39705	CG	ASN	F	100	173.715	139.614	-69.326	1.00	96.08	FS6
ATOM	39706	OD1	ASN	F	100	173.792	140.775	-68.926	1.00	96.08	FS6
ATOM	39707	ND2	ASN	F	100	174.663	138.710	-69.098	1.00	96.08	FS6
ATOM	39708	C	ASN	F	100	170.330	140.326	-70.274	1.00	122.72	FS6
ATOM	39709	O	ASN	F	100	170.832	141.265	-70.893	1.00	122.72	FS6
ATOM	39710	N	ALA	F	101	169.032	140.030	-70.324	1.00	195.99	FS6
ATOM	39711	CA	ALA	F	101	168.079	140.810	-71.110	1.00	195.99	FS6
ATOM	39712	CB	ALA	F	101	167.257	139.894	-72.010	1.00	90.70	FS6
ATOM	39713	C	ALA	F	101	167.149	141.594	-70.197	1.00	195.99	FS6
ATOM	39714	O	ALA	F	101	167.386	141.590	-68.970	1.00	195.99	FS6
ATOM	39715	OXT	ALA	F	101	166.194	142.202	-70.725	1.00	134.26	FS6
TER	39715		ALA	F	101						FS6
ATOM	39716	CB	ALA	G	2	216.532	137.720	-23.289	1.00	41.57	GS7
ATOM	39717	C	ALA	G	2	214.267	136.742	-22.833	1.00	47.76	GS7
ATOM	39718	O	ALA	G	2	214.027	137.009	-24.009	1.00	47.76	GS7



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ATOM	39719	N	ALA	G	2	216.364	135.604	-21.980	1.00	47.76	GS7
ATOM	39720	CA	ALA	G	2	215.684	136.903	-22.284	1.00	47.76	GS7
ATOM	39721	N	ARG	G	3	213.313	136.340	-22.004	1.00	57.26	GS7
ATOM	39722	CA	ARG	G	3	211.968	136.184	-22.538	1.00	57.26	GS7
ATOM	39723	CB	ARG	G	3	211.137	135.245	-21.657	1.00	48.45	GS7
ATOM	39724	CG	ARG	G	3	210.010	134.570	-22.430	1.00	48.45	GS7
ATOM	39725	CD	ARG	G	3	209.174	133.706	-21.530	1.00	48.45	GS7
ATOM	39726	NE	ARG	G	3	209.935	132.593	-20.977	1.00	48.45	GS7
ATOM	39727	CZ	ARG	G	3	210.059	131.410	-21.567	1.00	48.45	GS7
ATOM	39728	NH1	ARG	G	3	209.475	131.180	-22.736	1.00	48.45	GS7
ATOM	39729	NH2	ARG	G	3	210.747	130.446	-20.974	1.00	48.45	GS7
ATOM	39730	C	ARG	G	3	211.255	137.529	-22.726	1.00	57.26	GS7
ATOM	39731	O	ARG	G	3	210.492	137.703	-23.677	1.00	57.26	GS7
ATOM	39732	N	ARG	G	4	211.509	138.481	-21.831	1.00	70.84	GS7
ATOM	39733	CA	ARG	G	4	210.893	139.800	-21.931	1.00	70.84	GS7
ATOM	39734	CB	ARG	G	4	210.926	140.515	-20.589	1.00	87.22	GS7
ATOM	39735	CG	ARG	G	4	210.029	139.930	-19.559	1.00	87.22	GS7
ATOM	39736	CD	ARG	G	4	209.716	140.966	-18.505	1.00	87.22	GS7
ATOM	39737	NE	ARG	G	4	208.835	140.411	-17.489	1.00	87.22	GS7
ATOM	39738	CZ	ARG	G	4	207.589	140.012	-17.720	1.00	87.22	GS7
ATOM	39739	NH1	ARG	G	4	207.068	140.116	-18.940	1.00	87.22	GS7
ATOM	39740	NH2	ARG	G	4	206.873	139.482	-16.733	1.00	87.22	GS7
ATOM	39741	C	ARG	G	4	211.586	140.685	-22.957	1.00	70.84	GS7
ATOM	39742	O	ARG	G	4	211.444	140.480	-24.162	1.00	70.84	GS7
ATOM	39743	N	ARG	G	5	212.341	141.667	-22.454	1.00	106.79	GS7
ATOM	39744	CA	ARG	G	5	213.074	142.643	-23.268	1.00	106.79	GS7
ATOM	39745	CB	ARG	G	5	213.874	143.596	-22.371	1.00	197.96	GS7
ATOM	39746	CG	ARG	G	5	213.089	144.219	-21.225	1.00	197.96	GS7
ATOM	39747	CD	ARG	G	5	214.026	144.919	-20.242	1.00	197.96	GS7
ATOM	39748	NE	ARG	G	5	213.372	145.237	-18.972	1.00	197.96	GS7
ATOM	39749	CZ	ARG	G	5	214.006	145.702	-17.897	1.00	197.96	GS7
ATOM	39750	NH1	ARG	G	5	215.316	145.909	-17.931	1.00	197.96	GS7
ATOM	39751	NH2	ARG	G	5	213.331	145.955	-16.783	1.00	197.96	GS7
ATOM	39752	C	ARG	G	5	214.035	141.992	-24.247	1.00	106.79	GS7
ATOM	39753	O	ARG	G	5	214.156	140.768	-24.302	1.00	106.79	GS7
ATOM	39754	N	ARG	G	6	214.728	142.825	-25.014	1.00	73.37	GS7
ATOM	39755	CA	ARG	G	6	215.683	142.326	-25.991	1.00	73.37	GS7
ATOM	39756	CB	ARG	G	6	215.386	142.935	-27.362	1.00	128.20	GS7
ATOM	39757	CG	ARG	G	6	216.109	142.275	-28.524	1.00	128.20	GS7
ATOM	39758	CD	ARG	G	6	215.691	142.918	-29.836	1.00	128.20	GS7
ATOM	39759	NE	ARG	G	6	216.403	142.373	-30.988	1.00	128.20	GS7
ATOM	39760	CZ	ARG	G	6	216.287	142.849	-32.225	1.00	128.20	GS7
ATOM	39761	NH1	ARG	G	6	215.485	143.879	-32.464	1.00	128.20	GS7
ATOM	39762	NH2	ARG	G	6	216.971	142.300	-33.223	1.00	128.20	GS7
ATOM	39763	C	ARG	G	6	217.097	142.677	-25.548	1.00	73.37	GS7
ATOM	39764	O	ARG	G	6	217.925	143.067	-26.365	1.00	73.37	GS7
ATOM	39765	N	ALA	G	7	217.353	142.527	-24.247	1.00	144.09	GS7
ATOM	39766	CA	ALA	G	7	218.650	142.819	-23.623	1.00	144.09	GS7
ATOM	39767	CB	ALA	G	7	219.252	141.533	-23.024	1.00	62.01	GS7
ATOM	39768	C	ALA	G	7	219.665	143.484	-24.552	1.00	144.09	GS7
ATOM	39769	O	ALA	G	7	220.224	142.841	-25.438	1.00	144.09	GS7
ATOM	39770	N	GLU	G	8	219.897	144.775	-24.337	1.00	108.86	GS7
ATOM	39771	CA	GLU	G	8	220.844	145.542	-25.142	1.00	108.86	GS7
ATOM	39772	CB	GLU	G	8	220.594	147.042	-24.958	1.00	166.00	GS7
ATOM	39773	CG	GLU	G	8	219.995	147.434	-23.605	1.00	166.00	GS7
ATOM	39774	CD	GLU	G	8	220.817	146.963	-22.414	1.00	166.00	GS7
ATOM	39775	OE1	GLU	G	8	220.908	145.736	-22.191	1.00	166.00	GS7
ATOM	39776	OE2	GLU	G	8	221.369	147.825	-21.696	1.00	166.00	GS7
ATOM	39777	C	GLU	G	8	222.298	145.212	-24.803	1.00	108.86	GS7
ATOM	39778	O	GLU	G	8	222.588	144.642	-23.748	1.00	108.86	GS7
ATOM	39779	N	VAL	G	9	223.211	145.583	-25.700	1.00	59.51	GS7
ATOM	39780	CA	VAL	G	9	224.627	145.303	-25.505	1.00	59.51	GS7
ATOM	39781	CB	VAL	G	9	225.388	145.349	-26.848	1.00	81.55	GS7
ATOM	39782	CG1	VAL	G	9	226.798	144.804	-26.662	1.00	81.55	GS7
ATOM	39783	CG2	VAL	G	9	224.635	144.555	-27.908	1.00	81.55	GS7
ATOM	39784	C	VAL	G	9	225.302	146.273	-24.546	1.00	59.51	GS7
ATOM	39785	O	VAL	G	9	225.066	147.478	-24.605	1.00	59.51	GS7
ATOM	39786	N	ARG	G	10	226.143	145.746	-23.662	1.00	67.28	GS7
ATOM	39787	CA	ARG	G	10	226.867	146.590	-22.715	1.00	67.28	GS7
ATOM	39788	CB	ARG	G	10	227.615	145.740	-21.685	1.00	62.19	GS7
ATOM	39789	CG	ARG	G	10	226.772	144.919	-20.758	1.00	62.19	GS7
ATOM	39790	CD	ARG	G	10	227.670	144.097	-19.836	1.00	62.19	GS7
ATOM	39791	NE	ARG	G	10	226.922	143.534	-18.710	1.00	62.19	GS7
ATOM	39792	CZ	ARG	G	10	226.735	144.150	-17.544	1.00	62.19	GS7
ATOM	39793	NH1	ARG	G	10	227.254	145.353	-17.330	1.00	62.19	GS7
ATOM	39794	NH2	ARG	G	10	225.996	143.575	-16.603	1.00	62.19	GS7
ATOM	39795	C	ARG	G	10	227.917	147.394	-23.478	1.00	67.28	GS7



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ATOM	39796	O	ARG	G	10	228.830	146.799	-24.037	1.00	67.28	GS7
ATOM	39797	N	GLN	G	11	227.809	148.720	-23.525	1.00	82.03	GS7
ATOM	39798	CA	GLN	G	11	228.843	149.495	-24.216	1.00	82.03	GS7
ATOM	39799	CB	GLN	G	11	228.364	150.914	-24.526	1.00	90.95	GS7
ATOM	39800	CG	GLN	G	11	228.106	151.127	-26.012	1.00	90.95	GS7
ATOM	39801	CD	GLN	G	11	227.163	150.078	-26.610	1.00	90.95	GS7
ATOM	39802	OE1	GLN	G	11	225.963	150.082	-26.339	1.00	90.95	GS7
ATOM	39803	NE2	GLN	G	11	227.710	149.174	-27.419	1.00	90.95	GS7
ATOM	39804	C	GLN	G	11	230.036	149.511	-23.271	1.00	82.03	GS7
ATOM	39805	O	GLN	G	11	229.857	149.376	-22.063	1.00	82.03	GS7
ATOM	39806	N	LEU	G	12	231.249	149.658	-23.791	1.00	70.62	GS7
ATOM	39807	CA	LEU	G	12	232.403	149.622	-22.900	1.00	70.62	GS7
ATOM	39808	CB	LEU	G	12	233.221	148.350	-23.148	1.00	57.51	GS7
ATOM	39809	CG	LEU	G	12	232.454	147.079	-23.525	1.00	57.51	GS7
ATOM	39810	CD1	LEU	G	12	232.057	147.183	-24.989	1.00	57.51	GS7
ATOM	39811	CD2	LEU	G	12	233.311	145.829	-23.308	1.00	57.51	GS7
ATOM	39812	C	LEU	G	12	233.322	150.825	-22.984	1.00	70.62	GS7
ATOM	39813	O	LEU	G	12	233.539	151.384	-24.060	1.00	70.62	GS7
ATOM	39814	N	GLN	G	13	233.869	151.209	-21.833	1.00	91.49	GS7
ATOM	39815	CA	GLN	G	13	234.781	152.342	-21.746	1.00	91.49	GS7
ATOM	39816	CB	GLN	G	13	235.184	152.578	-20.289	1.00138.81	GS7	GS7
ATOM	39817	CG	GLN	G	13	234.022	152.985	-19.397	1.00138.81	GS7	GS7
ATOM	39818	CD	GLN	G	13	233.354	154.270	-19.862	1.00138.81	GS7	GS7
ATOM	39819	OE1	GLN	G	13	233.980	155.332	-19.895	1.00138.81	GS7	GS7
ATOM	39820	NE2	GLN	G	13	232.078	154.176	-20.228	1.00138.81	GS7	GS7
ATOM	39821	C	GLN	G	13	236.018	152.075	-22.596	1.00	91.49	GS7
ATOM	39822	O	GLN	G	13	236.885	151.290	-22.213	1.00	91.49	GS7
ATOM	39823	N	PRO	G	14	236.120	152.747	-23.755	1.00	83.80	GS7
ATOM	39824	CD	PRO	G	14	235.308	153.931	-24.073	1.00	68.71	GS7
ATOM	39825	CA	PRO	G	14	237.225	152.625	-24.712	1.00	83.80	GS7
ATOM	39826	CB	PRO	G	14	237.092	153.890	-25.563	1.00	68.71	GS7
ATOM	39827	CG	PRO	G	14	236.332	154.836	-24.684	1.00	68.71	GS7
ATOM	39828	C	PRO	G	14	238.627	152.445	-24.136	1.00	83.80	GS7
ATOM	39829	O	PRO	G	14	238.849	152.566	-22.927	1.00	83.80	GS7
ATOM	39830	N	ASP	G	15	239.567	152.155	-25.029	1.00	82.77	GS7
ATOM	39831	CA	ASP	G	15	240.961	151.912	-24.675	1.00	82.77	GS7
ATOM	39832	CB	ASP	G	15	241.729	151.488	-25.934	1.00116.65	GS7	GS7
ATOM	39833	CG	ASP	G	15	243.089	150.896	-25.621	1.00116.65	GS7	GS7
ATOM	39834	OD1	ASP	G	15	243.934	151.603	-25.050	1.00116.65	GS7	GS7
ATOM	39835	OD2	ASP	G	15	243.317	149.717	-25.947	1.00116.65	GS7	GS7
ATOM	39836	C	ASP	G	15	241.679	153.088	-24.004	1.00	82.77	GS7
ATOM	39837	O	ASP	G	15	241.488	154.250	-24.371	1.00	82.77	GS7
ATOM	39838	N	LEU	G	16	242.508	152.764	-23.015	1.00103.47	GS7	GS7
ATOM	39839	CA	LEU	G	16	243.292	153.759	-22.289	1.00103.47	GS7	GS7
ATOM	39840	CB	LEU	G	16	243.659	153.243	-20.893	1.00110.64	GS7	GS7
ATOM	39841	CG	LEU	G	16	242.588	153.104	-19.813	1.00110.64	GS7	GS7
ATOM	39842	CD1	LEU	G	16	242.125	154.488	-19.406	1.00110.64	GS7	GS7
ATOM	39843	CD2	LEU	G	16	241.431	152.246	-20.318	1.00110.64	GS7	GS7
ATOM	39844	C	LEU	G	16	244.582	154.019	-23.060	1.00103.47	GS7	GS7
ATOM	39845	O	LEU	G	16	245.563	154.491	-22.491	1.00103.47	GS7	GS7
ATOM	39846	N	VAL	G	17	244.581	153.692	-24.349	1.00	88.19	GS7
ATOM	39847	CA	VAL	G	17	245.758	153.878	-25.198	1.00	88.19	GS7
ATOM	39848	CB	VAL	G	17	246.680	152.635	-25.182	1.00	72.64	GS7
ATOM	39849	CG1	VAL	G	17	247.853	152.854	-26.120	1.00	72.64	GS7
ATOM	39850	CG2	VAL	G	17	247.182	152.368	-23.772	1.00	72.64	GS7
ATOM	39851	C	VAL	G	17	245.382	154.160	-26.649	1.00	88.19	GS7
ATOM	39852	O	VAL	G	17	245.711	155.214	-27.180	1.00	88.19	GS7
ATOM	39853	N	TYR	G	18	244.709	153.213	-27.295	1.00	80.76	GS7
ATOM	39854	CA	TYR	G	18	244.306	153.396	-28.684	1.00	80.76	GS7
ATOM	39855	CB	TYR	G	18	244.287	152.058	-29.414	1.00	90.11	GS7
ATOM	39856	CG	TYR	G	18	245.619	151.352	-29.397	1.00	90.11	GS7
ATOM	39857	CD1	TYR	G	18	246.206	150.945	-28.196	1.00	90.11	GS7
ATOM	39858	CE1	TYR	G	18	247.432	150.281	-28.179	1.00	90.11	GS7
ATOM	39859	CD2	TYR	G	18	246.294	151.079	-30.580	1.00	90.11	GS7
ATOM	39860	CE2	TYR	G	18	247.519	150.416	-30.577	1.00	90.11	GS7
ATOM	39861	CZ	TYR	G	18	248.082	150.019	-29.376	1.00	90.11	GS7
ATOM	39862	OH	TYR	G	18	249.287	149.355	-29.382	1.00	90.11	GS7
ATOM	39863	C	TYR	G	18	242.927	154.030	-28.721	1.00	80.76	GS7
ATOM	39864	O	TYR	G	18	242.414	154.383	-29.785	1.00	80.76	GS7
ATOM	39865	N	GLY	G	19	242.333	154.170	-27.541	1.00	73.74	GS7
ATOM	39866	CA	GLY	G	19	241.025	154.781	-27.438	1.00	73.74	GS7
ATOM	39867	C	GLY	G	19	239.912	153.952	-28.030	1.00	73.74	GS7
ATOM	39868	O	GLY	G	19	238.746	154.210	-27.758	1.00	73.74	GS7
ATOM	39869	N	ASP	G	20	240.253	152.954	-28.836	1.00121.08	GS7	GS7
ATOM	39870	CA	ASP	G	20	239.226	152.118	-29.442	1.00121.08	GS7	GS7
ATOM	39871	CB	ASP	G	20	239.815	151.276	-30.577	1.00122.29	GS7	GS7
ATOM	39872	CG	ASP	G	20	238.775	150.392	-31.249	1.00122.29	GS7	GS7



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ATOM	39873	OD1	ASP	G	20	237.621	150.848	-31.425	1.00122.29	GS7
ATOM	39874	OD2	ASP	G	20	239.116	149.244	-31.612	1.00122.29	GS7
ATOM	39875	C	ASP	G	20	238.557	151.213	-28.415	1.00121.08	GS7
ATOM	39876	O	ASP	G	20	239.188	150.746	-27.466	1.00121.08	GS7
ATOM	39877	N	VAL	G	21	237.267	150.976	-28.615	1.00 97.36	GS7
ATOM	39878	CA	VAL	G	21	236.487	150.138	-27.720	1.00 97.36	GS7
ATOM	39879	CB	VAL	G	21	234.989	150.389	-27.933	1.00 58.95	GS7
ATOM	39880	CG1	VAL	G	21	234.710	151.885	-27.850	1.00 58.95	GS7
ATOM	39881	CG2	VAL	G	21	234.551	149.842	-29.287	1.00 58.95	GS7
ATOM	39882	C	VAL	G	21	236.786	148.664	-27.973	1.00 97.36	GS7
ATOM	39883	O	VAL	G	21	236.973	147.881	-27.036	1.00 97.36	GS7
ATOM	39884	N	LEU	G	22	236.831	148.304	-29.254	1.00 67.95	GS7
ATOM	39885	CA	LEU	G	22	237.099	146.935	-29.681	1.00 67.95	GS7
ATOM	39886	CB	LEU	G	22	237.282	146.891	-31.200	1.00 49.45	GS7
ATOM	39887	CG	LEU	G	22	237.593	145.521	-31.801	1.00 49.45	GS7
ATOM	39888	CD1	LEU	G	22	236.449	144.563	-31.496	1.00 49.45	GS7
ATOM	39889	CD2	LEU	G	22	237.801	145.655	-33.304	1.00 49.45	GS7
ATOM	39890	C	LEU	G	22	238.332	146.360	-28.997	1.00 67.95	GS7
ATOM	39891	O	LEU	G	22	238.532	145.151	-28.971	1.00 67.95	GS7
ATOM	39892	N	VAL	G	23	239.164	147.227	-28.444	1.00 53.43	GS7
ATOM	39893	CA	VAL	G	23	240.350	146.750	-27.767	1.00 53.43	GS7
ATOM	39894	CB	VAL	G	23	241.446	147.814	-27.724	1.00 70.36	GS7
ATOM	39895	CG1	VAL	G	23	242.615	147.306	-26.889	1.00 70.36	GS7
ATOM	39896	CG2	VAL	G	23	241.896	148.140	-29.143	1.00 70.36	GS7
ATOM	39897	C	VAL	G	23	240.016	146.326	-26.348	1.00 53.43	GS7
ATOM	39898	O	VAL	G	23	240.570	145.347	-25.846	1.00 53.43	GS7
ATOM	39899	N	THR	G	24	239.114	147.054	-25.698	1.00 50.66	GS7
ATOM	39900	CA	THR	G	24	238.743	146.685	-24.343	1.00 50.66	GS7
ATOM	39901	CB	THR	G	24	237.714	147.636	-23.750	1.00 61.90	GS7
ATOM	39902	OG1	THR	G	24	238.015	148.971	-24.171	1.00 61.90	GS7
ATOM	39903	CG2	THR	G	24	237.757	147.564	-22.211	1.00 61.90	GS7
ATOM	39904	C	THR	G	24	238.123	145.302	-24.426	1.00 50.66	GS7
ATOM	39905	O	THR	G	24	238.389	144.425	-23.594	1.00 50.66	GS7
ATOM	39906	N	ALA	G	25	237.297	145.113	-25.448	1.00 47.65	GS7
ATOM	39907	CA	ALA	G	25	236.650	143.832	-25.659	1.00 47.65	GS7
ATOM	39908	CB	ALA	G	25	235.889	143.845	-26.977	1.00 38.82	GS7
ATOM	39909	C	ALA	G	25	237.723	142.750	-25.682	1.00 47.65	GS7
ATOM	39910	O	ALA	G	25	237.721	141.837	-24.855	1.00 47.65	GS7
ATOM	39911	N	PHE	G	26	238.657	142.866	-26.618	1.00 57.71	GS7
ATOM	39912	CA	PHE	G	26	239.706	141.870	-26.722	1.00 57.71	GS7
ATOM	39913	CB	PHE	G	26	240.710	142.244	-27.808	1.00 69.54	GS7
ATOM	39914	CG	PHE	G	26	241.674	141.140	-28.131	1.00 69.54	GS7
ATOM	39915	CD1	PHE	G	26	241.267	140.047	-28.889	1.00 69.54	GS7
ATOM	39916	CD2	PHE	G	26	242.976	141.173	-27.649	1.00 69.54	GS7
ATOM	39917	CE1	PHE	G	26	242.144	138.999	-29.163	1.00 69.54	GS7
ATOM	39918	CE2	PHE	G	26	243.859	140.131	-27.917	1.00 69.54	GS7
ATOM	39919	CZ	PHE	G	26	243.442	139.042	-28.676	1.00 69.54	GS7
ATOM	39920	C	PHE	G	26	240.442	141.678	-25.401	1.00 57.71	GS7
ATOM	39921	O	PHE	G	26	240.751	140.549	-25.015	1.00 57.71	GS7
ATOM	39922	N	ILE	G	27	240.727	142.773	-24.706	1.00 48.06	GS7
ATOM	39923	CA	ILE	G	27	241.433	142.656	-23.442	1.00 48.06	GS7
ATOM	39924	CB	ILE	G	27	241.756	144.032	-22.825	1.00 47.17	GS7
ATOM	39925	CG2	ILE	G	27	242.621	143.859	-21.574	1.00 47.17	GS7
ATOM	39926	CG1	ILE	G	27	242.515	144.881	-23.850	1.00 47.17	GS7
ATOM	39927	CD1	ILE	G	27	243.027	146.206	-23.318	1.00 47.17	GS7
ATOM	39928	C	ILE	G	27	240.598	141.852	-22.465	1.00 48.06	GS7
ATOM	39929	O	ILE	G	27	241.113	140.964	-21.789	1.00 48.06	GS7
ATOM	39930	N	ASN	G	28	239.304	142.143	-22.402	1.00 66.25	GS7
ATOM	39931	CA	ASN	G	28	238.432	141.418	-21.484	1.00 66.25	GS7
ATOM	39932	CB	ASN	G	28	236.992	141.909	-21.617	1.00 74.94	GS7
ATOM	39933	CG	ASN	G	28	236.841	143.356	-21.209	1.00 74.94	GS7
ATOM	39934	OD1	ASN	G	28	237.215	143.740	-20.099	1.00 74.94	GS7
ATOM	39935	ND2	ASN	G	28	236.298	144.172	-22.103	1.00 74.94	GS7
ATOM	39936	C	ASN	G	28	238.497	139.913	-21.709	1.00 66.25	GS7
ATOM	39937	O	ASN	G	28	238.522	139.138	-20.747	1.00 66.25	GS7
ATOM	39938	N	LYS	G	29	238.529	139.498	-22.974	1.00 45.95	GS7
ATOM	39939	CA	LYS	G	29	238.604	138.080	-23.295	1.00 45.95	GS7
ATOM	39940	CB	LYS	G	29	238.425	137.876	-24.796	1.00 58.61	GS7
ATOM	39941	CG	LYS	G	29	236.977	137.801	-25.220	1.00 58.61	GS7
ATOM	39942	CD	LYS	G	29	236.271	136.650	-24.507	1.00 58.61	GS7
ATOM	39943	CE	LYS	G	29	234.879	136.374	-25.088	1.00 58.61	GS7
ATOM	39944	NZ	LYS	G	29	234.147	135.284	-24.347	1.00 58.61	GS7
ATOM	39945	C	LYS	G	29	239.923	137.456	-22.824	1.00 45.95	GS7
ATOM	39946	O	LYS	G	29	239.978	136.282	-22.466	1.00 45.95	GS7
ATOM	39947	N	ILE	G	30	240.988	138.244	-22.815	1.00 49.27	GS7
ATOM	39948	CA	ILE	G	30	242.282	137.746	-22.370	1.00 49.27	GS7
ATOM	39949	CB	ILE	G	30	243.415	138.714	-22.756	1.00 50.88	GS7



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ATOM	39950	CG2	ILE	G	30	244.752	138.163	-22.269	1.00	50.88	GS7
ATOM	39951	CG1	ILE	G	30	243.409	138.944	-24.275	1.00	50.88	GS7
ATOM	39952	CD1	ILE	G	30	244.181	140.168	-24.709	1.00	50.88	GS7
ATOM	39953	C	ILE	G	30	242.247	137.639	-20.858	1.00	49.27	GS7
ATOM	39954	O	ILE	G	30	242.816	136.719	-20.276	1.00	49.27	GS7
ATOM	39955	N	MET	G	31	241.565	138.593	-20.233	1.00	51.90	GS7
ATOM	39956	CA	MET	G	31	241.445	138.643	-18.782	1.00	51.90	GS7
ATOM	39957	CB	MET	G	31	240.680	139.890	-18.352	1.00	71.10	GS7
ATOM	39958	CG	MET	G	31	240.260	139.835	-16.888	1.00	71.10	GS7
ATOM	39959	SD	MET	G	31	239.182	141.171	-16.403	1.00	71.10	GS7
ATOM	39960	CE	MET	G	31	237.586	140.536	-16.985	1.00	71.10	GS7
ATOM	39961	C	MET	G	31	240.748	137.446	-18.166	1.00	51.90	GS7
ATOM	39962	O	MET	G	31	239.776	136.930	-18.714	1.00	51.90	GS7
ATOM	39963	N	ARG	G	32	241.238	137.028	-17.007	1.00	62.48	GS7
ATOM	39964	CA	ARG	G	32	240.645	135.914	-16.289	1.00	62.48	GS7
ATOM	39965	CB	ARG	G	32	241.390	134.620	-16.620	1.00	70.78	GS7
ATOM	39966	CG	ARG	G	32	242.894	134.713	-16.527	1.00	70.78	GS7
ATOM	39967	CD	ARG	G	32	243.569	133.404	-16.961	1.00	70.78	GS7
ATOM	39968	NE	ARG	G	32	243.430	133.136	-18.394	1.00	70.78	GS7
ATOM	39969	CZ	ARG	G	32	244.157	132.245	-19.066	1.00	70.78	GS7
ATOM	39970	NH1	ARG	G	32	245.080	131.529	-18.436	1.00	70.78	GS7
ATOM	39971	NH2	ARG	G	32	243.967	132.073	-20.371	1.00	70.78	GS7
ATOM	39972	C	ARG	G	32	240.674	136.199	-14.787	1.00	62.48	GS7
ATOM	39973	O	ARG	G	32	241.647	136.754	-14.275	1.00	62.48	GS7
ATOM	39974	N	ASP	G	33	239.599	135.836	-14.089	1.00	68.11	GS7
ATOM	39975	CA	ASP	G	33	239.482	136.061	-12.644	1.00	68.11	GS7
ATOM	39976	CB	ASP	G	33	240.632	135.410	-11.889	1.00	70.56	GS7
ATOM	39977	CG	ASP	G	33	240.837	133.985	-12.288	1.00	70.56	GS7
ATOM	39978	OD1	ASP	G	33	239.896	133.188	-12.104	1.00	70.56	GS7
ATOM	39979	OD2	ASP	G	33	241.935	133.662	-12.795	1.00	70.56	GS7
ATOM	39980	C	ASP	G	33	239.477	137.539	-12.319	1.00	68.11	GS7
ATOM	39981	O	ASP	G	33	239.803	137.929	-11.197	1.00	68.11	GS7
ATOM	39982	N	GLY	G	34	239.125	138.358	-13.306	1.00	59.46	GS7
ATOM	39983	CA	GLY	G	34	239.068	139.788	-13.092	1.00	59.46	GS7
ATOM	39984	C	GLY	G	34	240.414	140.471	-12.991	1.00	59.46	GS7
ATOM	39985	O	GLY	G	34	240.474	141.668	-12.739	1.00	59.46	GS7
ATOM	39986	N	LYS	G	35	241.497	139.726	-13.173	1.00	58.72	GS7
ATOM	39987	CA	LYS	G	35	242.829	140.322	-13.111	1.00	58.72	GS7
ATOM	39988	CB	LYS	G	35	243.888	139.235	-12.973	1.00	55.88	GS7
ATOM	39989	CG	LYS	G	35	243.706	138.397	-11.742	1.00	55.88	GS7
ATOM	39990	CD	LYS	G	35	244.849	137.431	-11.571	1.00	55.88	GS7
ATOM	39991	CE	LYS	G	35	246.138	138.162	-11.267	1.00	55.88	GS7
ATOM	39992	NZ	LYS	G	35	247.251	137.181	-11.160	1.00	55.88	GS7
ATOM	39993	C	LYS	G	35	243.047	141.105	-14.400	1.00	58.72	GS7
ATOM	39994	O	LYS	G	35	243.882	140.744	-15.245	1.00	58.72	GS7
ATOM	39995	N	LYS	G	36	242.277	142.183	-14.530	1.00	70.86	GS7
ATOM	39996	CA	LYS	G	36	242.308	143.038	-15.705	1.00	70.86	GS7
ATOM	39997	CB	LYS	G	36	241.149	144.029	-15.658	1.00	67.55	GS7
ATOM	39998	CG	LYS	G	36	240.983	144.835	-16.924	1.00	67.55	GS7
ATOM	39999	CD	LYS	G	36	239.939	145.907	-16.718	1.00	67.55	GS7
ATOM	40000	CE	LYS	G	36	239.447	146.429	-18.050	1.00	67.55	GS7
ATOM	40001	NZ	LYS	G	36	238.862	145.320	-18.868	1.00	67.55	GS7
ATOM	40002	C	LYS	G	36	243.600	143.804	-15.915	1.00	70.86	GS7
ATOM	40003	O	LYS	G	36	243.809	144.363	-16.988	1.00	70.86	GS7
ATOM	40004	N	ASN	G	37	244.464	143.852	-14.908	1.00	58.12	GS7
ATOM	40005	CA	ASN	G	37	245.709	144.580	-15.086	1.00	58.12	GS7
ATOM	40006	CB	ASN	G	37	246.334	144.946	-13.747	1.00	64.12	GS7
ATOM	40007	CG	ASN	G	37	247.198	146.194	-13.832	1.00	64.12	GS7
ATOM	40008	OD1	ASN	G	37	248.180	146.320	-13.101	1.00	64.12	GS7
ATOM	40009	ND2	ASN	G	37	246.827	147.132	-14.715	1.00	64.12	GS7
ATOM	40010	C	ASN	G	37	246.641	143.668	-15.848	1.00	58.12	GS7
ATOM	40011	O	ASN	G	37	247.134	144.018	-16.925	1.00	58.12	GS7
ATOM	40012	N	LEU	G	38	246.877	142.491	-15.276	1.00	59.04	GS7
ATOM	40013	CA	LEU	G	38	247.730	141.496	-15.905	1.00	59.04	GS7
ATOM	40014	CB	LEU	G	38	247.702	140.203	-15.076	1.00	58.19	GS7
ATOM	40015	CG	LEU	G	38	247.659	138.794	-15.680	1.00	58.19	GS7
ATOM	40016	CD1	LEU	G	38	248.587	138.679	-16.878	1.00	58.19	GS7
ATOM	40017	CD2	LEU	G	38	248.044	137.779	-14.586	1.00	58.19	GS7
ATOM	40018	C	LEU	G	38	247.237	141.276	-17.339	1.00	59.04	GS7
ATOM	40019	O	LEU	G	38	248.024	141.087	-18.264	1.00	59.04	GS7
ATOM	40020	N	ALA	G	39	245.928	141.332	-17.527	1.00	60.55	GS7
ATOM	40021	CA	ALA	G	39	245.369	141.165	-18.858	1.00	60.55	GS7
ATOM	40022	CB	ALA	G	39	243.869	140.972	-18.768	1.00	116.27	GS7
ATOM	40023	C	ALA	G	39	245.687	142.390	-19.703	1.00	60.55	GS7
ATOM	40024	O	ALA	G	39	245.986	142.283	-20.885	1.00	60.55	GS7
ATOM	40025	N	ALA	G	40	245.617	143.560	-19.086	1.00	73.20	GS7
ATOM	40026	CA	ALA	G	40	245.886	144.810	-19.780	1.00	73.20	GS7



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ATOM	40027	CB	ALA	G	40	245.749	145.960	-18.830	1.00	57.76	GS7
ATOM	40028	C	ALA	G	40	247.277	144.803	-20.362	1.00	73.20	GS7
ATOM	40029	O	ALA	G	40	247.466	145.123	-21.534	1.00	73.20	GS7
ATOM	40030	N	ARG	G	41	248.254	144.458	-19.529	1.00	70.94	GS7
ATOM	40031	CA	ARG	G	41	249.637	144.403	-19.973	1.00	70.94	GS7
ATOM	40032	CB	ARG	G	41	250.520	143.795	-18.904	1.00	99.49	GS7
ATOM	40033	CG	ARG	G	41	250.713	144.636	-17.695	1.00	99.49	GS7
ATOM	40034	CD	ARG	G	41	251.365	143.775	-16.660	1.00	99.49	GS7
ATOM	40035	NE	ARG	G	41	251.670	144.508	-15.447	1.00	99.49	GS7
ATOM	40036	CZ	ARG	G	41	251.775	143.939	-14.254	1.00	99.49	GS7
ATOM	40037	NH1	ARG	G	41	251.592	142.628	-14.118	1.00	99.49	GS7
ATOM	40038	NH2	ARG	G	41	252.065	144.683	-13.197	1.00	99.49	GS7
ATOM	40039	C	ARG	G	41	249.714	143.520	-21.197	1.00	70.94	GS7
ATOM	40040	O	ARG	G	41	249.843	144.004	-22.321	1.00	70.94	GS7
ATOM	40041	N	ILE	G	42	249.635	142.215	-20.955	1.00	67.07	GS7
ATOM	40042	CA	ILE	G	42	249.690	141.220	-22.013	1.00	67.07	GS7
ATOM	40043	CB	ILE	G	42	248.761	140.023	-21.709	1.00	62.12	GS7
ATOM	40044	CG2	ILE	G	42	248.696	139.090	-22.914	1.00	62.12	GS7
ATOM	40045	CG1	ILE	G	42	249.274	139.277	-20.472	1.00	62.12	GS7
ATOM	40046	CD1	ILE	G	42	248.466	138.034	-20.104	1.00	62.12	GS7
ATOM	40047	C	ILE	G	42	249.328	141.785	-23.379	1.00	67.07	GS7
ATOM	40048	O	ILE	G	42	250.132	141.720	-24.299	1.00	67.07	GS7
ATOM	40049	N	PHE	G	43	248.134	142.346	-23.525	1.00	67.63	GS7
ATOM	40050	CA	PHE	G	43	247.768	142.884	-24.823	1.00	67.63	GS7
ATOM	40051	CB	PHE	G	43	246.392	143.516	-24.824	1.00	48.79	GS7
ATOM	40052	CG	PHE	G	43	246.005	144.058	-26.167	1.00	48.79	GS7
ATOM	40053	CD1	PHE	G	43	245.938	143.213	-27.272	1.00	48.79	GS7
ATOM	40054	CD2	PHE	G	43	245.719	145.401	-26.339	1.00	48.79	GS7
ATOM	40055	CE1	PHE	G	43	245.588	143.694	-28.532	1.00	48.79	GS7
ATOM	40056	CE2	PHE	G	43	245.367	145.891	-27.602	1.00	48.79	GS7
ATOM	40057	CZ	PHE	G	43	245.302	145.032	-28.701	1.00	48.79	GS7
ATOM	40058	C	PHE	G	43	248.732	143.949	-25.275	1.00	67.63	GS7
ATOM	40059	O	PHE	G	43	249.260	143.898	-26.386	1.00	67.63	GS7
ATOM	40060	N	TYR	G	44	248.933	144.934	-24.412	1.00	62.21	GS7
ATOM	40061	CA	TYR	G	44	249.825	146.036	-24.708	1.00	62.21	GS7
ATOM	40062	CB	TYR	G	44	249.778	147.016	-23.543	1.00	57.16	GS7
ATOM	40063	CG	TYR	G	44	248.470	147.783	-23.514	1.00	57.16	GS7
ATOM	40064	CD1	TYR	G	44	247.845	148.105	-22.301	1.00	57.16	GS7
ATOM	40065	CE1	TYR	G	44	246.648	148.804	-22.275	1.00	57.16	GS7
ATOM	40066	CD2	TYR	G	44	247.858	148.188	-24.705	1.00	57.16	GS7
ATOM	40067	CE2	TYR	G	44	246.665	148.888	-24.692	1.00	57.16	GS7
ATOM	40068	CZ	TYR	G	44	246.062	149.192	-23.476	1.00	57.16	GS7
ATOM	40069	OH	TYR	G	44	244.861	149.869	-23.467	1.00	57.16	GS7
ATOM	40070	C	TYR	G	44	251.252	145.598	-25.043	1.00	62.21	GS7
ATOM	40071	O	TYR	G	44	251.855	146.124	-25.975	1.00	62.21	GS7
ATOM	40072	N	ASP	G	45	251.790	144.636	-24.303	1.00	59.03	GS7
ATOM	40073	CA	ASP	G	45	253.123	144.149	-24.613	1.00	59.03	GS7
ATOM	40074	CB	ASP	G	45	253.567	143.091	-23.618	1.00	94.59	GS7
ATOM	40075	CG	ASP	G	45	253.674	143.631	-22.225	1.00	94.59	GS7
ATOM	40076	OD1	ASP	G	45	254.272	144.715	-22.045	1.00	94.59	GS7
ATOM	40077	OD2	ASP	G	45	253.160	142.966	-21.305	1.00	94.59	GS7
ATOM	40078	C	ASP	G	45	253.090	143.542	-26.008	1.00	59.03	GS7
ATOM	40079	O	ASP	G	45	253.888	143.902	-26.870	1.00	59.03	GS7
ATOM	40080	N	ALA	G	46	252.167	142.615	-26.232	1.00	70.05	GS7
ATOM	40081	CA	ALA	G	46	252.040	141.991	-27.542	1.00	70.05	GS7
ATOM	40082	CB	ALA	G	46	250.788	141.124	-27.597	1.00	123.76	GS7
ATOM	40083	C	ALA	G	46	251.959	143.093	-28.592	1.00	70.05	GS7
ATOM	40084	O	ALA	G	46	252.522	142.969	-29.676	1.00	70.05	GS7
ATOM	40085	N	CYS	G	47	251.267	144.178	-28.255	1.00	69.62	GS7
ATOM	40086	CA	CYS	G	47	251.118	145.298	-29.176	1.00	69.62	GS7
ATOM	40087	CB	CYS	G	47	250.213	146.374	-28.578	1.00	93.54	GS7
ATOM	40088	SG	CYS	G	47	248.458	145.970	-28.587	1.00	93.54	GS7
ATOM	40089	C	CYS	G	47	252.457	145.916	-29.530	1.00	69.62	GS7
ATOM	40090	O	CYS	G	47	252.627	146.454	-30.625	1.00	69.62	GS7
ATOM	40091	N	LYS	G	48	253.406	145.840	-28.603	1.00	89.98	GS7
ATOM	40092	CA	LYS	G	48	254.730	146.399	-28.829	1.00	89.98	GS7
ATOM	40093	CB	LYS	G	48	255.295	146.955	-27.519	1.00	84.13	GS7
ATOM	40094	CG	LYS	G	48	254.365	148.004	-26.898	1.00	84.13	GS7
ATOM	40095	CD	LYS	G	48	255.027	148.866	-25.831	1.00	84.13	GS7
ATOM	40096	CE	LYS	G	48	254.096	150.009	-25.403	1.00	84.13	GS7
ATOM	40097	NZ	LYS	G	48	253.679	150.897	-26.537	1.00	84.13	GS7
ATOM	40098	C	LYS	G	48	255.656	145.353	-29.425	1.00	89.98	GS7
ATOM	40099	O	LYS	G	48	256.803	145.641	-29.746	1.00	89.98	GS7
ATOM	40100	N	ILE	G	49	255.144	144.136	-29.575	1.00	77.08	GS7
ATOM	40101	CA	ILE	G	49	255.911	143.043	-30.165	1.00	77.08	GS7
ATOM	40102	CB	ILE	G	49	255.559	141.684	-29.518	1.00	46.30	GS7
ATOM	40103	CG2	ILE	G	49	256.116	140.543	-30.363	1.00	46.30	GS7



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ATOM	40104	CG1	ILE	G	49	256.091	141.642	-28.076	1.00	46.30	GS7
ATOM	40105	CD1	ILE	G	49	255.907	140.299	-27.354	1.00	46.30	GS7
ATOM	40106	C	ILE	G	49	255.550	142.993	-31.642	1.00	77.08	GS7
ATOM	40107	O	ILE	G	49	256.240	142.375	-32.454	1.00	77.08	GS7
ATOM	40108	N	ILE	G	50	254.448	143.649	-31.982	1.00	87.03	GS7
ATOM	40109	CA	ILE	G	50	253.995	143.691	-33.358	1.00	87.03	GS7
ATOM	40110	CB	ILE	G	50	252.480	143.869	-33.437	1.00	70.54	GS7
ATOM	40111	CG2	ILE	G	50	251.993	143.546	-34.837	1.00	70.54	GS7
ATOM	40112	CG1	ILE	G	50	251.805	142.916	-32.455	1.00	70.54	GS7
ATOM	40113	CD1	ILE	G	50	250.308	143.082	-32.376	1.00	70.54	GS7
ATOM	40114	C	ILE	G	50	254.672	144.875	-34.027	1.00	87.03	GS7
ATOM	40115	O	ILE	G	50	254.716	144.964	-35.255	1.00	87.03	GS7
ATOM	40116	N	GLN	G	51	255.196	145.786	-33.207	1.00	124.56	GS7
ATOM	40117	CA	GLN	G	51	255.897	146.965	-33.708	1.00	124.56	GS7
ATOM	40118	CB	GLN	G	51	256.000	148.045	-32.630	1.00	133.19	GS7
ATOM	40119	CG	GLN	G	51	254.847	149.020	-32.649	1.00	133.19	GS7
ATOM	40120	CD	GLN	G	51	254.793	149.818	-33.937	1.00	133.19	GS7
ATOM	40121	OE1	GLN	G	51	254.950	149.270	-35.033	1.00	133.19	GS7
ATOM	40122	NE2	GLN	G	51	254.558	151.121	-33.813	1.00	133.19	GS7
ATOM	40123	C	GLN	G	51	257.285	146.564	-34.143	1.00	124.56	GS7
ATOM	40124	O	GLN	G	51	257.819	147.094	-35.115	1.00	124.56	GS7
ATOM	40125	N	GLU	G	52	257.871	145.627	-33.407	1.00	87.74	GS7
ATOM	40126	CA	GLU	G	52	259.196	145.146	-33.741	1.00	87.74	GS7
ATOM	40127	CB	GLU	G	52	259.853	144.485	-32.531	1.00	154.52	GS7
ATOM	40128	CG	GLU	G	52	260.311	145.475	-31.480	1.00	154.52	GS7
ATOM	40129	CD	GLU	G	52	261.266	144.853	-30.486	1.00	154.52	GS7
ATOM	40130	OE1	GLU	G	52	262.264	144.244	-30.930	1.00	154.52	GS7
ATOM	40131	OE2	GLU	G	52	261.027	144.974	-29.266	1.00	154.52	GS7
ATOM	40132	C	GLU	G	52	259.091	144.159	-34.889	1.00	87.74	GS7
ATOM	40133	O	GLU	G	52	259.199	144.542	-36.048	1.00	87.74	GS7
ATOM	40134	N	LYS	G	53	258.856	142.894	-34.569	1.00	104.78	GS7
ATOM	40135	CA	LYS	G	53	258.749	141.854	-35.585	1.00	104.78	GS7
ATOM	40136	CB	LYS	G	53	258.167	140.593	-34.940	1.00	102.26	GS7
ATOM	40137	CG	LYS	G	53	259.048	140.113	-33.780	1.00	102.26	GS7
ATOM	40138	CD	LYS	G	53	258.566	138.827	-33.130	1.00	102.26	GS7
ATOM	40139	CE	LYS	G	53	259.494	138.431	-31.983	1.00	102.26	GS7
ATOM	40140	NZ	LYS	G	53	259.089	137.157	-31.333	1.00	102.26	GS7
ATOM	40141	C	LYS	G	53	257.982	142.263	-36.858	1.00	104.78	GS7
ATOM	40142	O	LYS	G	53	258.266	141.755	-37.947	1.00	104.78	GS7
ATOM	40143	N	THR	G	54	257.023	143.178	-36.725	1.00	108.02	GS7
ATOM	40144	CA	THR	G	54	256.268	143.680	-37.878	1.00	108.02	GS7
ATOM	40145	CB	THR	G	54	254.745	143.449	-37.746	1.00	112.82	GS7
ATOM	40146	OG1	THR	G	54	254.454	142.051	-37.843	1.00	112.82	GS7
ATOM	40147	CG2	THR	G	54	254.002	144.182	-38.851	1.00	112.82	GS7
ATOM	40148	C	THR	G	54	256.512	145.178	-37.923	1.00	108.02	GS7
ATOM	40149	O	THR	G	54	256.727	145.800	-36.886	1.00	108.02	GS7
ATOM	40150	N	GLY	G	55	256.481	145.767	-39.110	1.00	84.08	GS7
ATOM	40151	CA	GLY	G	55	256.720	147.193	-39.190	1.00	84.08	GS7
ATOM	40152	C	GLY	G	55	255.463	148.041	-39.206	1.00	84.08	GS7
ATOM	40153	O	GLY	G	55	255.488	149.163	-39.715	1.00	84.08	GS7
ATOM	40154	N	GLN	G	56	254.371	147.540	-38.632	1.00	92.66	GS7
ATOM	40155	CA	GLN	G	56	253.117	148.293	-38.651	1.00	92.66	GS7
ATOM	40156	CB	GLN	G	56	252.076	147.502	-39.429	1.00	129.72	GS7
ATOM	40157	CG	GLN	G	56	252.654	146.770	-40.616	1.00	129.72	GS7
ATOM	40158	CD	GLN	G	56	251.688	145.762	-41.188	1.00	129.72	GS7
ATOM	40159	OE1	GLN	G	56	250.679	146.127	-41.790	1.00	129.72	GS7
ATOM	40160	NE2	GLN	G	56	251.985	144.481	-40.992	1.00	129.72	GS7
ATOM	40161	C	GLN	G	56	252.546	148.660	-37.283	1.00	92.66	GS7
ATOM	40162	O	GLN	G	56	252.949	148.100	-36.260	1.00	92.66	GS7
ATOM	40163	N	GLU	G	57	251.604	149.608	-37.285	1.00	86.57	GS7
ATOM	40164	CA	GLU	G	57	250.942	150.069	-36.066	1.00	86.57	GS7
ATOM	40165	CB	GLU	G	57	249.940	151.169	-36.386	1.00	118.30	GS7
ATOM	40166	CG	GLU	G	57	250.439	152.179	-37.380	1.00	118.30	GS7
ATOM	40167	CD	GLU	G	57	249.305	152.841	-38.130	1.00	118.30	GS7
ATOM	40168	OE1	GLU	G	57	248.519	152.116	-38.777	1.00	118.30	GS7
ATOM	40169	OE2	GLU	G	57	249.197	154.084	-38.076	1.00	118.30	GS7
ATOM	40170	C	GLU	G	57	250.187	148.870	-35.539	1.00	86.57	GS7
ATOM	40171	O	GLU	G	57	249.364	148.292	-36.251	1.00	86.57	GS7
ATOM	40172	N	PRO	G	58	250.434	148.483	-34.282	1.00	88.73	GS7
ATOM	40173	CD	PRO	G	58	251.045	149.245	-33.181	1.00	71.13	GS7
ATOM	40174	CA	PRO	G	58	249.707	147.316	-33.776	1.00	88.73	GS7
ATOM	40175	CB	PRO	G	58	250.091	147.281	-32.295	1.00	71.13	GS7
ATOM	40176	CG	PRO	G	58	250.278	148.727	-31.978	1.00	71.13	GS7
ATOM	40177	C	PRO	G	58	248.202	147.434	-33.998	1.00	88.73	GS7
ATOM	40178	O	PRO	G	58	247.556	146.481	-34.429	1.00	88.73	GS7
ATOM	40179	N	LEU	G	59	247.660	148.619	-33.746	1.00	85.79	GS7
ATOM	40180	CA	LEU	G	59	246.229	148.836	-33.888	1.00	85.79	GS7



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ATOM	40181	CB	LEU	G	59	245.891	150.299	-33.612	1.00	88.22	GS7
ATOM	40182	CG	LEU	G	59	244.408	150.580	-33.342	1.00	88.22	GS7
ATOM	40183	CD1	LEU	G	59	243.887	149.663	-32.244	1.00	88.22	GS7
ATOM	40184	CD2	LEU	G	59	244.236	152.036	-32.937	1.00	88.22	GS7
ATOM	40185	C	LEU	G	59	245.608	148.411	-35.219	1.00	85.79	GS7
ATOM	40186	O	LEU	G	59	244.414	148.103	-35.268	1.00	85.79	GS7
ATOM	40187	N	LYS	G	60	246.391	148.393	-36.297	1.00	70.04	GS7
ATOM	40188	CA	LYS	G	60	245.847	147.987	-37.594	1.00	70.04	GS7
ATOM	40189	CB	LYS	G	60	246.459	148.800	-38.734	1.00121.51	GS7	GS7
ATOM	40190	CG	LYS	G	60	245.877	148.443	-40.093	1.00121.51	GS7	GS7
ATOM	40191	CD	LYS	G	60	246.422	149.330	-41.195	1.00121.51	GS7	GS7
ATOM	40192	CE	LYS	G	60	245.773	148.997	-42.532	1.00121.51	GS7	GS7
ATOM	40193	NZ	LYS	G	60	246.206	149.918	-43.625	1.00121.51	GS7	GS7
ATOM	40194	C	LYS	G	60	246.102	146.508	-37.831	1.00	70.04	GS7
ATOM	40195	O	LYS	G	60	245.312	145.824	-38.482	1.00	70.04	GS7
ATOM	40196	N	VAL	G	61	247.217	146.015	-37.309	1.00	87.62	GS7
ATOM	40197	CA	VAL	G	61	247.539	144.606	-37.453	1.00	87.62	GS7
ATOM	40198	CB	VAL	G	61	248.912	144.292	-36.840	1.00	82.31	GS7
ATOM	40199	CG1	VAL	G	61	249.215	142.800	-36.950	1.00	82.31	GS7
ATOM	40200	CG2	VAL	G	61	249.971	145.101	-37.542	1.00	82.31	GS7
ATOM	40201	C	VAL	G	61	246.462	143.837	-36.694	1.00	87.62	GS7
ATOM	40202	O	VAL	G	61	246.113	142.702	-37.039	1.00	87.62	GS7
ATOM	40203	N	PHE	G	62	245.943	144.483	-35.652	1.00	82.71	GS7
ATOM	40204	CA	PHE	G	62	244.902	143.921	-34.803	1.00	82.71	GS7
ATOM	40205	CB	PHE	G	62	244.698	144.816	-33.579	1.00	73.61	GS7
ATOM	40206	CG	PHE	G	62	243.570	144.385	-32.689	1.00	73.61	GS7
ATOM	40207	CD1	PHE	G	62	243.650	143.203	-31.964	1.00	73.61	GS7
ATOM	40208	CD2	PHE	G	62	242.420	145.161	-32.582	1.00	73.61	GS7
ATOM	40209	CE1	PHE	G	62	242.601	142.799	-31.147	1.00	73.61	GS7
ATOM	40210	CE2	PHE	G	62	241.367	144.766	-31.769	1.00	73.61	GS7
ATOM	40211	CZ	PHE	G	62	241.456	143.582	-31.050	1.00	73.61	GS7
ATOM	40212	C	PHE	G	62	243.605	143.834	-35.588	1.00	82.71	GS7
ATOM	40213	O	PHE	G	62	243.119	142.748	-35.903	1.00	82.71	GS7
ATOM	40214	N	LYS	G	63	243.054	144.995	-35.910	1.00	81.86	GS7
ATOM	40215	CA	LYS	G	63	241.808	145.053	-36.649	1.00	81.86	GS7
ATOM	40216	CB	LYS	G	63	241.456	146.506	-36.965	1.00	82.32	GS7
ATOM	40217	CG	LYS	G	63	241.367	147.370	-35.722	1.00	82.32	GS7
ATOM	40218	CD	LYS	G	63	240.570	148.622	-35.983	1.00	82.32	GS7
ATOM	40219	CE	LYS	G	63	240.273	149.353	-34.692	1.00	82.32	GS7
ATOM	40220	NZ	LYS	G	63	239.213	150.377	-34.902	1.00	82.32	GS7
ATOM	40221	C	LYS	G	63	241.842	144.226	-37.927	1.00	81.86	GS7
ATOM	40222	O	LYS	G	63	240.816	143.688	-38.344	1.00	81.86	GS7
ATOM	40223	N	GLN	G	64	243.010	144.111	-38.549	1.00	76.04	GS7
ATOM	40224	CA	GLN	G	64	243.100	143.323	-39.770	1.00	76.04	GS7
ATOM	40225	CB	GLN	G	64	244.467	143.492	-40.433	1.00111.20	GS7	GS7
ATOM	40226	CG	GLN	G	64	244.556	142.802	-41.787	1.00111.20	GS7	GS7
ATOM	40227	CD	GLN	G	64	243.428	143.212	-42.716	1.00111.20	GS7	GS7
ATOM	40228	OE1	GLN	G	64	243.345	144.365	-43.135	1.00111.20	GS7	GS7
ATOM	40229	NE2	GLN	G	64	242.548	142.270	-43.033	1.00111.20	GS7	GS7
ATOM	40230	C	GLN	G	64	242.863	141.859	-39.415	1.00	76.04	GS7
ATOM	40231	O	GLN	G	64	242.207	141.118	-40.156	1.00	76.04	GS7
ATOM	40232	N	ALA	G	65	243.396	141.454	-38.267	1.00	96.60	GS7
ATOM	40233	CA	ALA	G	65	243.237	140.087	-37.788	1.00	96.60	GS7
ATOM	40234	CB	ALA	G	65	243.896	139.937	-36.419	1.00	84.69	GS7
ATOM	40235	C	ALA	G	65	241.745	139.794	-37.686	1.00	96.60	GS7
ATOM	40236	O	ALA	G	65	241.198	138.994	-38.451	1.00	96.60	GS7
ATOM	40237	N	VAL	G	66	241.103	140.460	-36.729	1.00	72.54	GS7
ATOM	40238	CA	VAL	G	66	239.675	140.325	-36.485	1.00	72.54	GS7
ATOM	40239	CB	VAL	G	66	239.114	141.591	-35.819	1.00	55.48	GS7
ATOM	40240	CG1	VAL	G	66	237.618	141.681	-36.040	1.00	55.48	GS7
ATOM	40241	CG2	VAL	G	66	239.432	141.570	-34.325	1.00	55.48	GS7
ATOM	40242	C	VAL	G	66	238.892	140.084	-37.759	1.00	72.54	GS7
ATOM	40243	O	VAL	G	66	238.220	139.060	-37.903	1.00	72.54	GS7
ATOM	40244	N	GLU	G	67	238.979	141.037	-38.681	1.00	72.89	GS7
ATOM	40245	CA	GLU	G	67	238.260	140.934	-39.939	1.00	72.89	GS7
ATOM	40246	CB	GLU	G	67	238.691	142.044	-40.891	1.00114.50	GS7	GS7
ATOM	40247	CG	GLU	G	67	237.997	141.959	-42.244	1.00114.50	GS7	GS7
ATOM	40248	CD	GLU	G	67	236.481	142.067	-42.140	1.00114.50	GS7	GS7
ATOM	40249	OE1	GLU	G	67	235.799	141.768	-43.145	1.00114.50	GS7	GS7
ATOM	40250	OE2	GLU	G	67	235.975	142.458	-41.062	1.00114.50	GS7	GS7
ATOM	40251	C	GLU	G	67	238.403	139.588	-40.649	1.00	72.89	GS7
ATOM	40252	O	GLU	G	67	237.531	139.206	-41.435	1.00	72.89	GS7
ATOM	40253	N	ASN	G	68	239.492	138.872	-40.386	1.00	86.34	GS7
ATOM	40254	CA	ASN	G	68	239.692	137.576	-41.027	1.00	86.34	GS7
ATOM	40255	CB	ASN	G	68	241.160	137.387	-41.403	1.00	76.62	GS7
ATOM	40256	CG	ASN	G	68	241.600	138.330	-42.496	1.00	76.62	GS7
ATOM	40257	OD1	ASN	G	68	240.925	138.469	-43.520	1.00	76.62	GS7



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ATOM	40258	ND2	ASN	G	68	242.738	138.982	-42.291	1.00	76.62	GS7
ATOM	40259	C	ASN	G	68	239.231	136.408	-40.166	1.00	86.34	GS7
ATOM	40260	O	ASN	G	68	239.045	135.294	-40.661	1.00	86.34	GS7
ATOM	40261	N	VAL	G	69	239.039	136.662	-38.878	1.00	63.50	GS7
ATOM	40262	CA	VAL	G	69	238.604	135.612	-37.971	1.00	63.50	GS7
ATOM	40263	CB	VAL	G	69	239.245	135.773	-36.572	1.00	63.96	GS7
ATOM	40264	CG1	VAL	G	69	239.290	134.427	-35.859	1.00	63.96	GS7
ATOM	40265	CG2	VAL	G	69	240.637	136.371	-36.703	1.00	63.96	GS7
ATOM	40266	C	VAL	G	69	237.093	135.675	-37.823	1.00	63.50	GS7
ATOM	40267	O	VAL	G	69	236.516	134.951	-37.021	1.00	63.50	GS7
ATOM	40268	N	LYS	G	70	236.455	136.545	-38.597	1.00	70.40	GS7
ATOM	40269	CA	LYS	G	70	235.003	136.695	-38.537	1.00	70.40	GS7
ATOM	40270	CB	LYS	G	70	234.602	138.136	-38.834	1.00	58.80	GS7
ATOM	40271	CG	LYS	G	70	234.604	139.076	-37.651	1.00	58.80	GS7
ATOM	40272	CD	LYS	G	70	234.028	140.399	-38.106	1.00	58.80	GS7
ATOM	40273	CE	LYS	G	70	234.023	141.432	-37.015	1.00	58.80	GS7
ATOM	40274	NZ	LYS	G	70	233.837	142.779	-37.625	1.00	58.80	GS7
ATOM	40275	C	LYS	G	70	234.254	135.786	-39.506	1.00	70.40	GS7
ATOM	40276	O	LYS	G	70	234.333	135.966	-40.723	1.00	70.40	GS7
ATOM	40277	N	PRO	G	71	233.502	134.806	-38.975	1.00	53.10	GS7
ATOM	40278	CD	PRO	G	71	233.279	134.521	-37.546	1.00	38.40	GS7
ATOM	40279	CA	PRO	G	71	232.739	133.879	-39.812	1.00	53.10	GS7
ATOM	40280	CB	PRO	G	71	232.402	132.757	-38.846	1.00	38.40	GS7
ATOM	40281	CG	PRO	G	71	232.137	133.518	-37.585	1.00	38.40	GS7
ATOM	40282	C	PRO	G	71	231.503	134.607	-40.298	1.00	53.10	GS7
ATOM	40283	O	PRO	G	71	230.830	135.265	-39.510	1.00	53.10	GS7
ATOM	40284	N	ARG	G	72	231.218	134.509	-41.592	1.00	66.02	GS7
ATOM	40285	CA	ARG	G	72	230.055	135.174	-42.163	1.00	66.02	GS7
ATOM	40286	CB	ARG	G	72	230.374	135.654	-43.579	1.00	114.69	GS7
ATOM	40287	CG	ARG	G	72	231.319	134.739	-44.325	1.00	114.69	GS7
ATOM	40288	CD	ARG	G	72	231.648	135.282	-45.699	1.00	114.69	GS7
ATOM	40289	NE	ARG	G	72	232.769	134.568	-46.309	1.00	114.69	GS7
ATOM	40290	CZ	ARG	G	72	234.030	134.646	-45.887	1.00	114.69	GS7
ATOM	40291	NH1	ARG	G	72	234.343	135.411	-44.847	1.00	114.69	GS7
ATOM	40292	NH2	ARG	G	72	234.981	133.956	-46.506	1.00	114.69	GS7
ATOM	40293	C	ARG	G	72	228.831	134.257	-42.160	1.00	66.02	GS7
ATOM	40294	O	ARG	G	72	227.696	134.727	-42.241	1.00	66.02	GS7
ATOM	40295	N	MET	G	73	229.069	132.951	-42.061	1.00	55.86	GS7
ATOM	40296	CA	MET	G	73	227.998	131.951	-42.017	1.00	55.86	GS7
ATOM	40297	CB	MET	G	73	227.873	131.225	-43.357	1.00	78.13	GS7
ATOM	40298	CG	MET	G	73	227.289	132.066	-44.464	1.00	78.13	GS7
ATOM	40299	SD	MET	G	73	225.528	132.292	-44.237	1.00	78.13	GS7
ATOM	40300	CE	MET	G	73	224.879	131.627	-45.790	1.00	78.13	GS7
ATOM	40301	C	MET	G	73	228.350	130.939	-40.937	1.00	55.86	GS7
ATOM	40302	O	MET	G	73	229.505	130.843	-40.524	1.00	55.86	GS7
ATOM	40303	N	GLU	G	74	227.365	130.189	-40.465	1.00	57.66	GS7
ATOM	40304	CA	GLU	G	74	227.639	129.186	-39.448	1.00	57.66	GS7
ATOM	40305	CB	GLU	G	74	227.855	129.835	-38.084	1.00	77.16	GS7
ATOM	40306	CG	GLU	G	74	226.579	130.205	-37.348	1.00	77.16	GS7
ATOM	40307	CD	GLU	G	74	226.862	130.791	-35.975	1.00	77.16	GS7
ATOM	40308	OE1	GLU	G	74	227.571	130.132	-35.183	1.00	77.16	GS7
ATOM	40309	OE2	GLU	G	74	226.378	131.909	-35.686	1.00	77.16	GS7
ATOM	40310	C	GLU	G	74	226.476	128.234	-39.369	1.00	57.66	GS7
ATOM	40311	O	GLU	G	74	225.415	128.489	-39.927	1.00	57.66	GS7
ATOM	40312	N	VAL	G	75	226.672	127.135	-38.663	1.00	79.02	GS7
ATOM	40313	CA	VAL	G	75	225.620	126.151	-38.528	1.00	79.02	GS7
ATOM	40314	CB	VAL	G	75	226.173	124.749	-38.772	1.00	69.53	GS7
ATOM	40315	CG1	VAL	G	75	225.063	123.752	-38.726	1.00	69.53	GS7
ATOM	40316	CG2	VAL	G	75	226.862	124.700	-40.111	1.00	69.53	GS7
ATOM	40317	C	VAL	G	75	224.996	126.210	-37.138	1.00	79.02	GS7
ATOM	40318	O	VAL	G	75	225.681	126.517	-36.164	1.00	79.02	GS7
ATOM	40319	N	ARG	G	76	223.694	125.931	-37.066	1.00	79.94	GS7
ATOM	40320	CA	ARG	G	76	222.924	125.921	-35.817	1.00	79.94	GS7
ATOM	40321	CB	ARG	G	76	222.062	127.178	-35.700	1.00	113.77	GS7
ATOM	40322	CG	ARG	G	76	222.808	128.436	-35.306	1.00	113.77	GS7
ATOM	40323	CD	ARG	G	76	221.859	129.629	-35.272	1.00	113.77	GS7
ATOM	40324	NE	ARG	G	76	222.264	130.634	-34.293	1.00	113.77	GS7
ATOM	40325	CZ	ARG	G	76	221.573	131.738	-34.024	1.00	113.77	GS7
ATOM	40326	NH1	ARG	G	76	220.436	131.988	-34.665	1.00	113.77	GS7
ATOM	40327	NH2	ARG	G	76	222.011	132.583	-33.098	1.00	113.77	GS7
ATOM	40328	C	ARG	G	76	222.010	124.704	-35.866	1.00	79.94	GS7
ATOM	40329	O	ARG	G	76	221.104	124.643	-36.701	1.00	79.94	GS7
ATOM	40330	N	SER	G	77	222.245	123.737	-34.983	1.00	110.97	GS7
ATOM	40331	CA	SER	G	77	221.442	122.512	-34.956	1.00	110.97	GS7
ATOM	40332	CB	SER	G	77	221.784	121.682	-33.708	1.00	93.71	GS7
ATOM	40333	OG	SER	G	77	221.244	120.370	-33.785	1.00	93.71	GS7
ATOM	40334	C	SER	G	77	219.948	122.835	-34.981	1.00	110.97	GS7



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ATOM	40335	O	SER	G	77	219.549	123.978	-34.758	1.00110.97	GS7
ATOM	40336	N	ARG	G	78	219.122	121.834	-35.266	1.00120.56	GS7
ATOM	40337	CA	ARG	G	78	217.684	122.059	-35.305	1.00120.56	GS7
ATOM	40338	CB	ARG	G	78	217.326	122.985	-36.459	1.00112.43	GS7
ATOM	40339	CG	ARG	G	78	215.844	123.276	-36.539	1.00112.43	GS7
ATOM	40340	CD	ARG	G	78	215.512	124.066	-37.778	1.00112.43	GS7
ATOM	40341	NE	ARG	G	78	214.108	124.456	-37.808	1.00112.43	GS7
ATOM	40342	CZ	ARG	G	78	213.566	125.205	-38.763	1.00112.43	GS7
ATOM	40343	NH1	ARG	G	78	214.315	125.643	-39.768	1.00112.43	GS7
ATOM	40344	NH2	ARG	G	78	212.279	125.526	-38.708	1.00112.43	GS7
ATOM	40345	C	ARG	G	78	216.837	120.800	-35.418	1.00120.56	GS7
ATOM	40346	O	ARG	G	78	217.006	120.001	-36.339	1.00120.56	GS7
ATOM	40347	N	ARG	G	79	215.911	120.641	-34.478	1.00 95.80	GS7
ATOM	40348	CA	ARG	G	79	215.004	119.503	-34.468	1.00 95.80	GS7
ATOM	40349	CB	ARG	G	79	214.189	119.486	-33.168	1.00158.06	GS7
ATOM	40350	CG	ARG	G	79	214.998	119.267	-31.897	1.00158.06	GS7
ATOM	40351	CD	ARG	G	79	215.045	117.794	-31.510	1.00158.06	GS7
ATOM	40352	NE	ARG	G	79	215.859	117.569	-30.317	1.00158.06	GS7
ATOM	40353	CZ	ARG	G	79	216.007	116.391	-29.719	1.00158.06	GS7
ATOM	40354	NH1	ARG	G	79	215.393	115.317	-30.198	1.00158.06	GS7
ATOM	40355	NH2	ARG	G	79	216.775	116.284	-28.644	1.00158.06	GS7
ATOM	40356	C	ARG	G	79	214.060	119.689	-35.648	1.00 95.80	GS7
ATOM	40357	O	ARG	G	79	213.366	120.708	-35.737	1.00 95.80	GS7
ATOM	40358	N	VAL	G	80	214.052	118.719	-36.558	1.00159.63	GS7
ATOM	40359	CA	VAL	G	80	213.182	118.769	-37.730	1.00159.63	GS7
ATOM	40360	CB	VAL	G	80	213.905	119.352	-38.967	1.00 94.32	GS7
ATOM	40361	CG1	VAL	G	80	212.907	119.563	-40.101	1.00 94.32	GS7
ATOM	40362	CG2	VAL	G	80	214.585	120.660	-38.610	1.00 94.32	GS7
ATOM	40363	C	VAL	G	80	212.719	117.362	-38.075	1.00159.63	GS7
ATOM	40364	O	VAL	G	80	213.532	116.506	-38.426	1.00159.63	GS7
ATOM	40365	N	GLY	G	81	211.412	117.134	-37.968	1.00186.64	GS7
ATOM	40366	CA	GLY	G	81	210.837	115.834	-38.270	1.00186.64	GS7
ATOM	40367	C	GLY	G	81	211.805	114.667	-38.181	1.00186.64	GS7
ATOM	40368	O	GLY	G	81	211.969	113.915	-39.142	1.00186.64	GS7
ATOM	40369	N	GLY	G	82	212.451	114.516	-37.028	1.00124.96	GS7
ATOM	40370	CA	GLY	G	82	213.394	113.429	-36.853	1.00124.96	GS7
ATOM	40371	C	GLY	G	82	214.716	113.885	-36.270	1.00124.96	GS7
ATOM	40372	O	GLY	G	82	214.823	114.129	-35.068	1.00124.96	GS7
ATOM	40373	N	ALA	G	83	215.726	114.012	-37.123	1.00110.56	GS7
ATOM	40374	CA	ALA	G	83	217.050	114.424	-36.674	1.00110.56	GS7
ATOM	40375	CB	ALA	G	83	218.100	114.021	-37.708	1.00118.76	GS7
ATOM	40376	C	ALA	G	83	217.158	115.915	-36.380	1.00110.56	GS7
ATOM	40377	O	ALA	G	83	216.180	116.661	-36.482	1.00110.56	GS7
ATOM	40378	N	ASN	G	84	218.367	116.331	-36.013	1.00105.09	GS7
ATOM	40379	CA	ASN	G	84	218.653	117.723	-35.695	1.00105.09	GS7
ATOM	40380	CB	ASN	G	84	219.290	117.821	-34.307	1.00111.79	GS7
ATOM	40381	CG	ASN	G	84	218.484	117.086	-33.253	1.00111.79	GS7
ATOM	40382	OD1	ASN	G	84	217.264	117.230	-33.183	1.00111.79	GS7
ATOM	40383	ND2	ASN	G	84	219.161	116.295	-32.427	1.00111.79	GS7
ATOM	40384	C	ASN	G	84	219.579	118.308	-36.758	1.00105.09	GS7
ATOM	40385	O	ASN	G	84	220.738	118.630	-36.498	1.00105.09	GS7
ATOM	40386	N	TYR	G	85	219.032	118.437	-37.960	1.00122.84	GS7
ATOM	40387	CA	TYR	G	85	219.739	118.961	-39.118	1.00122.84	GS7
ATOM	40388	CB	TYR	G	85	218.729	119.257	-40.225	1.00115.37	GS7
ATOM	40389	CG	TYR	G	85	217.933	118.050	-40.669	1.00115.37	GS7
ATOM	40390	CD1	TYR	G	85	216.822	118.192	-41.499	1.00115.37	GS7
ATOM	40391	CE1	TYR	G	85	216.098	117.083	-41.934	1.00115.37	GS7
ATOM	40392	CD2	TYR	G	85	218.302	116.761	-40.279	1.00115.37	GS7
ATOM	40393	CE2	TYR	G	85	217.586	115.642	-40.706	1.00115.37	GS7
ATOM	40394	CZ	TYR	G	85	216.484	115.808	-41.534	1.00115.37	GS7
ATOM	40395	OH	TYR	G	85	215.775	114.703	-41.959	1.00115.37	GS7
ATOM	40396	C	TYR	G	85	220.576	120.209	-38.856	1.00122.84	GS7
ATOM	40397	O	TYR	G	85	220.039	121.272	-38.548	1.00122.84	GS7
ATOM	40398	N	GLN	G	86	221.893	120.069	-38.987	1.00107.90	GS7
ATOM	40399	CA	GLN	G	86	222.810	121.188	-38.804	1.00107.90	GS7
ATOM	40400	CB	GLN	G	86	224.256	120.711	-38.979	1.00121.30	GS7
ATOM	40401	CG	GLN	G	86	224.737	119.780	-37.878	1.00121.30	GS7
ATOM	40402	CD	GLN	G	86	224.800	120.459	-36.516	1.00121.30	GS7
ATOM	40403	OE1	GLN	G	86	224.851	119.796	-35.480	1.00121.30	GS7
ATOM	40404	NE2	GLN	G	86	224.807	121.785	-36.514	1.00121.30	GS7
ATOM	40405	C	GLN	G	86	222.467	122.235	-39.866	1.00107.90	GS7
ATOM	40406	O	GLN	G	86	222.795	122.065	-41.037	1.00107.90	GS7
ATOM	40407	N	VAL	G	87	221.812	123.318	-39.456	1.00 69.63	GS7
ATOM	40408	CA	VAL	G	87	221.407	124.357	-40.394	1.00 69.63	GS7
ATOM	40409	CB	VAL	G	87	220.024	124.892	-40.028	1.00 60.23	GS7
ATOM	40410	CG1	VAL	G	87	219.630	126.025	-40.971	1.00 60.23	GS7
ATOM	40411	CG2	VAL	G	87	219.020	123.764	-40.102	1.00 60.23	GS7



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ATOM	40412	C	VAL	G	87	222.348	125.551	-40.572	1.00	69.63	GS7
ATOM	40413	O	VAL	G	87	222.825	126.140	-39.602	1.00	69.63	GS7
ATOM	40414	N	PRO	G	88	222.606	125.930	-41.836	1.00	72.56	GS7
ATOM	40415	CD	PRO	G	88	222.095	125.229	-43.029	1.00	69.62	GS7
ATOM	40416	CA	PRO	G	88	223.472	127.042	-42.239	1.00	72.56	GS7
ATOM	40417	CB	PRO	G	88	223.755	126.727	-43.696	1.00	69.62	GS7
ATOM	40418	CG	PRO	G	88	222.437	126.196	-44.146	1.00	69.62	GS7
ATOM	40419	C	PRO	G	88	222.749	128.367	-42.106	1.00	72.56	GS7
ATOM	40420	O	PRO	G	88	221.545	128.425	-42.330	1.00	72.56	GS7
ATOM	40421	N	MET	G	89	223.474	129.427	-41.759	1.00	79.09	GS7
ATOM	40422	CA	MET	G	89	222.850	130.740	-41.625	1.00	79.09	GS7
ATOM	40423	CB	MET	G	89	221.698	130.671	-40.620	1.00	120.76	GS7
ATOM	40424	CG	MET	G	89	222.062	130.044	-39.294	1.00	120.76	GS7
ATOM	40425	SD	MET	G	89	220.571	129.610	-38.396	1.00	120.76	GS7
ATOM	40426	CE	MET	G	89	220.038	131.231	-37.847	1.00	120.76	GS7
ATOM	40427	C	MET	G	89	223.778	131.891	-41.256	1.00	79.09	GS7
ATOM	40428	O	MET	G	89	224.753	131.713	-40.519	1.00	79.09	GS7
ATOM	40429	N	GLU	G	90	223.443	133.071	-41.785	1.00	55.63	GS7
ATOM	40430	CA	GLU	G	90	224.189	134.302	-41.560	1.00	55.63	GS7
ATOM	40431	CB	GLU	G	90	223.397	135.492	-42.082	1.00	136.06	GS7
ATOM	40432	CG	GLU	G	90	222.847	135.295	-43.469	1.00	136.06	GS7
ATOM	40433	CD	GLU	G	90	221.869	136.383	-43.854	1.00	136.06	GS7
ATOM	40434	OE1	GLU	G	90	221.338	136.324	-44.984	1.00	136.06	GS7
ATOM	40435	OE2	GLU	G	90	221.629	137.295	-43.029	1.00	136.06	GS7
ATOM	40436	C	GLU	G	90	224.469	134.516	-40.080	1.00	55.63	GS7
ATOM	40437	O	GLU	G	90	223.769	133.992	-39.211	1.00	55.63	GS7
ATOM	40438	N	VAL	G	91	225.501	135.292	-39.793	1.00	64.91	GS7
ATOM	40439	CA	VAL	G	91	225.849	135.575	-38.418	1.00	64.91	GS7
ATOM	40440	CB	VAL	G	91	227.293	135.151	-38.122	1.00	59.20	GS7
ATOM	40441	CG1	VAL	G	91	227.638	135.463	-36.671	1.00	59.20	GS7
ATOM	40442	CG2	VAL	G	91	227.465	133.666	-38.409	1.00	59.20	GS7
ATOM	40443	C	VAL	G	91	225.705	137.077	-38.242	1.00	64.91	GS7
ATOM	40444	O	VAL	G	91	226.208	137.849	-39.059	1.00	64.91	GS7
ATOM	40445	N	SER	G	92	225.002	137.487	-37.190	1.00	55.40	GS7
ATOM	40446	CA	SER	G	92	224.790	138.905	-36.923	1.00	55.40	GS7
ATOM	40447	CB	SER	G	92	223.960	139.097	-35.657	1.00	102.46	GS7
ATOM	40448	OG	SER	G	92	224.782	139.000	-34.505	1.00	102.46	GS7
ATOM	40449	C	SER	G	92	226.122	139.609	-36.722	1.00	55.40	GS7
ATOM	40450	O	SER	G	92	227.060	139.036	-36.155	1.00	55.40	GS7
ATOM	40451	N	PRO	G	93	226.213	140.875	-37.162	1.00	42.85	GS7
ATOM	40452	CD	PRO	G	93	225.083	141.763	-37.481	1.00	108.20	GS7
ATOM	40453	CA	PRO	G	93	227.451	141.645	-37.013	1.00	42.85	GS7
ATOM	40454	CB	PRO	G	93	227.021	143.060	-37.387	1.00	108.20	GS7
ATOM	40455	CG	PRO	G	93	225.577	143.091	-36.962	1.00	108.20	GS7
ATOM	40456	C	PRO	G	93	227.926	141.543	-35.571	1.00	42.85	GS7
ATOM	40457	O	PRO	G	93	229.104	141.311	-35.296	1.00	42.85	GS7
ATOM	40458	N	ARG	G	94	226.983	141.693	-34.651	1.00	59.83	GS7
ATOM	40459	CA	ARG	G	94	227.290	141.609	-33.238	1.00	59.83	GS7
ATOM	40460	CB	ARG	G	94	226.010	141.805	-32.426	1.00	58.33	GS7
ATOM	40461	CG	ARG	G	94	226.098	141.348	-30.984	1.00	58.33	GS7
ATOM	40462	CD	ARG	G	94	227.175	142.052	-30.178	1.00	58.33	GS7
ATOM	40463	NE	ARG	G	94	227.242	141.492	-28.825	1.00	58.33	GS7
ATOM	40464	CZ	ARG	G	94	228.140	141.839	-27.907	1.00	58.33	GS7
ATOM	40465	NH1	ARG	G	94	229.055	142.753	-28.188	1.00	58.33	GS7
ATOM	40466	NH2	ARG	G	94	228.134	141.264	-26.714	1.00	58.33	GS7
ATOM	40467	C	ARG	G	94	227.955	140.275	-32.904	1.00	59.83	GS7
ATOM	40468	O	ARG	G	94	229.065	140.258	-32.369	1.00	59.83	GS7
ATOM	40469	N	ARG	G	95	227.298	139.163	-33.239	1.00	76.44	GS7
ATOM	40470	CA	ARG	G	95	227.851	137.834	-32.940	1.00	76.44	GS7
ATOM	40471	CB	ARG	G	95	226.909	136.717	-33.425	1.00	52.37	GS7
ATOM	40472	CG	ARG	G	95	227.362	135.299	-33.009	1.00	52.37	GS7
ATOM	40473	CD	ARG	G	95	226.312	134.207	-33.283	1.00	52.37	GS7
ATOM	40474	NE	ARG	G	95	226.819	132.870	-32.964	1.00	52.37	GS7
ATOM	40475	CZ	ARG	G	95	227.241	132.488	-31.758	1.00	52.37	GS7
ATOM	40476	NH1	ARG	G	95	227.221	133.336	-30.735	1.00	52.37	GS7
ATOM	40477	NH2	ARG	G	95	227.689	131.253	-31.568	1.00	52.37	GS7
ATOM	40478	C	ARG	G	95	229.232	137.632	-33.555	1.00	76.44	GS7
ATOM	40479	O	ARG	G	95	230.170	137.195	-32.877	1.00	76.44	GS7
ATOM	40480	N	GLN	G	96	229.351	137.943	-34.842	1.00	66.78	GS7
ATOM	40481	CA	GLN	G	96	230.623	137.810	-35.526	1.00	66.78	GS7
ATOM	40482	CB	GLN	G	96	230.608	138.600	-36.828	1.00	77.21	GS7
ATOM	40483	CG	GLN	G	96	229.992	137.840	-37.974	1.00	77.21	GS7
ATOM	40484	CD	GLN	G	96	229.793	138.699	-39.199	1.00	77.21	GS7
ATOM	40485	OE1	GLN	G	96	230.718	139.363	-39.667	1.00	77.21	GS7
ATOM	40486	NE2	GLN	G	96	228.579	138.688	-39.730	1.00	77.21	GS7
ATOM	40487	C	GLN	G	96	231.764	138.298	-34.649	1.00	66.78	GS7
ATOM	40488	O	GLN	G	96	232.666	137.529	-34.317	1.00	66.78	GS7



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ATOM	40489	N	GLN	G	97	231.721	139.566	-34.256	1.00	62.68	GS7
ATOM	40490	CA	GLN	G	97	232.790	140.095	-33.430	1.00	62.68	GS7
ATOM	40491	CB	GLN	G	97	232.500	141.528	-32.982	1.00	72.26	GS7
ATOM	40492	CG	GLN	G	97	233.610	142.051	-32.083	1.00	72.26	GS7
ATOM	40493	CD	GLN	G	97	233.181	143.179	-31.173	1.00	72.26	GS7
ATOM	40494	OE1	GLN	G	97	233.052	144.323	-31.606	1.00	72.26	GS7
ATOM	40495	NE2	GLN	G	97	232.958	142.861	-29.897	1.00	72.26	GS7
ATOM	40496	C	GLN	G	97	233.061	139.234	-32.192	1.00	62.68	GS7
ATOM	40497	O	GLN	G	97	234.214	138.910	-31.892	1.00	62.68	GS7
ATOM	40498	N	SER	G	98	232.013	138.857	-31.471	1.00	73.12	GS7
ATOM	40499	CA	SER	G	98	232.202	138.052	-30.268	1.00	73.12	GS7
ATOM	40500	CB	SER	G	98	230.846	137.687	-29.663	1.00	78.66	GS7
ATOM	40501	OG	SER	G	98	230.107	138.849	-29.324	1.00	78.66	GS7
ATOM	40502	C	SER	G	98	233.008	136.780	-30.541	1.00	73.12	GS7
ATOM	40503	O	SER	G	98	233.891	136.409	-29.762	1.00	73.12	GS7
ATOM	40504	N	LEU	G	99	232.701	136.121	-31.655	1.00	65.40	GS7
ATOM	40505	CA	LEU	G	99	233.382	134.887	-32.039	1.00	65.40	GS7
ATOM	40506	CB	LEU	G	99	232.687	134.253	-33.241	1.00	66.53	GS7
ATOM	40507	CG	LEU	G	99	231.202	133.974	-33.015	1.00	66.53	GS7
ATOM	40508	CD1	LEU	G	99	230.548	133.588	-34.324	1.00	66.53	GS7
ATOM	40509	CD2	LEU	G	99	231.043	132.879	-31.975	1.00	66.53	GS7
ATOM	40510	C	LEU	G	99	234.830	135.154	-32.386	1.00	65.40	GS7
ATOM	40511	O	LEU	G	99	235.733	134.563	-31.798	1.00	65.40	GS7
ATOM	40512	N	ALA	G	100	235.045	136.043	-33.350	1.00	71.52	GS7
ATOM	40513	CA	ALA	G	100	236.396	136.391	-33.770	1.00	71.52	GS7
ATOM	40514	CB	ALA	G	100	236.379	137.688	-34.587	1.00	46.12	GS7
ATOM	40515	C	ALA	G	100	237.295	136.546	-32.542	1.00	71.52	GS7
ATOM	40516	O	ALA	G	100	238.243	135.772	-32.355	1.00	71.52	GS7
ATOM	40517	N	LEU	G	101	236.981	137.530	-31.700	1.00	46.44	GS7
ATOM	40518	CA	LEU	G	101	237.764	137.777	-30.497	1.00	46.44	GS7
ATOM	40519	CB	LEU	G	101	237.091	138.833	-29.634	1.00	51.58	GS7
ATOM	40520	CG	LEU	G	101	236.835	140.152	-30.343	1.00	51.58	GS7
ATOM	40521	CD1	LEU	G	101	236.131	141.118	-29.400	1.00	51.58	GS7
ATOM	40522	CD2	LEU	G	101	238.157	140.717	-30.813	1.00	51.58	GS7
ATOM	40523	C	LEU	G	101	237.972	136.518	-29.663	1.00	46.44	GS7
ATOM	40524	O	LEU	G	101	239.106	136.146	-29.344	1.00	46.44	GS7
ATOM	40525	N	ARG	G	102	236.882	135.856	-29.300	1.00	60.13	GS7
ATOM	40526	CA	ARG	G	102	237.028	134.661	-28.500	1.00	60.13	GS7
ATOM	40527	CB	ARG	G	102	235.678	134.033	-28.219	1.00	61.78	GS7
ATOM	40528	CG	ARG	G	102	235.766	132.796	-27.338	1.00	61.78	GS7
ATOM	40529	CD	ARG	G	102	234.431	132.098	-27.344	1.00	61.78	GS7
ATOM	40530	NE	ARG	G	102	233.385	133.105	-27.329	1.00	61.78	GS7
ATOM	40531	CZ	ARG	G	102	232.107	132.850	-27.538	1.00	61.78	GS7
ATOM	40532	NH1	ARG	G	102	231.728	131.605	-27.779	1.00	61.78	GS7
ATOM	40533	NH2	ARG	G	102	231.218	133.840	-27.512	1.00	61.78	GS7
ATOM	40534	C	ARG	G	102	237.919	133.657	-29.214	1.00	60.13	GS7
ATOM	40535	O	ARG	G	102	238.773	133.032	-28.588	1.00	60.13	GS7
ATOM	40536	N	TRP	G	103	237.734	133.499	-30.522	1.00	59.95	GS7
ATOM	40537	CA	TRP	G	103	238.554	132.554	-31.261	1.00	59.95	GS7
ATOM	40538	CB	TRP	G	103	238.107	132.450	-32.716	1.00	59.75	GS7
ATOM	40539	CG	TRP	G	103	236.897	131.597	-32.913	1.00	59.75	GS7
ATOM	40540	CD2	TRP	G	103	235.989	131.634	-34.023	1.00	59.75	GS7
ATOM	40541	CE2	TRP	G	103	235.012	130.646	-33.795	1.00	59.75	GS7
ATOM	40542	CE3	TRP	G	103	235.908	132.406	-35.189	1.00	59.75	GS7
ATOM	40543	CD1	TRP	G	103	236.450	130.615	-32.086	1.00	59.75	GS7
ATOM	40544	NE1	TRP	G	103	235.316	130.038	-32.606	1.00	59.75	GS7
ATOM	40545	CZ2	TRP	G	103	233.960	130.407	-34.690	1.00	59.75	GS7
ATOM	40546	CZ3	TRP	G	103	234.860	132.167	-36.084	1.00	59.75	GS7
ATOM	40547	CH2	TRP	G	103	233.901	131.177	-35.827	1.00	59.75	GS7
ATOM	40548	C	TRP	G	103	240.021	132.942	-31.209	1.00	59.95	GS7
ATOM	40549	O	TRP	G	103	240.889	132.084	-31.044	1.00	59.95	GS7
ATOM	40550	N	LEU	G	104	240.311	134.231	-31.344	1.00	48.16	GS7
ATOM	40551	CA	LEU	G	104	241.699	134.661	-31.292	1.00	48.16	GS7
ATOM	40552	CB	LEU	G	104	241.801	136.171	-31.531	1.00	42.82	GS7
ATOM	40553	CG	LEU	G	104	241.377	136.596	-32.945	1.00	42.82	GS7
ATOM	40554	CD1	LEU	G	104	241.422	138.108	-33.113	1.00	42.82	GS7
ATOM	40555	CD2	LEU	G	104	242.302	135.949	-33.929	1.00	42.82	GS7
ATOM	40556	C	LEU	G	104	242.344	134.267	-29.958	1.00	48.16	GS7
ATOM	40557	O	LEU	G	104	243.258	133.446	-29.941	1.00	48.16	GS7
ATOM	40558	N	VAL	G	105	241.862	134.818	-28.846	1.00	41.11	GS7
ATOM	40559	CA	VAL	G	105	242.425	134.489	-27.529	1.00	41.11	GS7
ATOM	40560	CB	VAL	G	105	241.551	135.029	-26.361	1.00	60.50	GS7
ATOM	40561	CG1	VAL	G	105	242.083	134.508	-25.026	1.00	60.50	GS7
ATOM	40562	CG2	VAL	G	105	241.553	136.557	-26.362	1.00	60.50	GS7
ATOM	40563	C	VAL	G	105	242.590	132.989	-27.325	1.00	41.11	GS7
ATOM	40564	O	VAL	G	105	243.601	132.536	-26.773	1.00	41.11	GS7
ATOM	40565	N	GLN	G	106	241.592	132.228	-27.768	1.00	49.24	GS7



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ATOM	40566	CA	GLN	G	106	241.619	130.774	-27.635	1.00	49.24	GS7
ATOM	40567	CB	GLN	G	106	240.295	130.172	-28.090	1.00	86.98	GS7
ATOM	40568	CG	GLN	G	106	239.195	130.239	-27.065	1.00	86.98	GS7
ATOM	40569	CD	GLN	G	106	237.941	129.534	-27.528	1.00	86.98	GS7
ATOM	40570	OE1	GLN	G	106	237.019	129.331	-26.748	1.00	86.98	GS7
ATOM	40571	NE2	GLN	G	106	237.896	129.160	-28.805	1.00	86.98	GS7
ATOM	40572	C	GLN	G	106	242.742	130.148	-28.445	1.00	49.24	GS7
ATOM	40573	O	GLN	G	106	243.636	129.495	-27.900	1.00	49.24	GS7
ATOM	40574	N	ALA	G	107	242.675	130.345	-29.756	1.00	76.08	GS7
ATOM	40575	CA	ALA	G	107	243.673	129.812	-30.668	1.00	76.08	GS7
ATOM	40576	CB	ALA	G	107	243.349	130.252	-32.083	1.00	38.70	GS7
ATOM	40577	C	ALA	G	107	245.062	130.300	-30.267	1.00	76.08	GS7
ATOM	40578	O	ALA	G	107	246.068	129.617	-30.475	1.00	76.08	GS7
ATOM	40579	N	ALA	G	108	245.109	131.489	-29.683	1.00	39.15	GS7
ATOM	40580	CA	ALA	G	108	246.367	132.063	-29.260	1.00	39.15	GS7
ATOM	40581	CB	ALA	G	108	246.169	133.511	-28.881	1.00	14.14	GS7
ATOM	40582	C	ALA	G	108	246.938	131.288	-28.085	1.00	39.15	GS7
ATOM	40583	O	ALA	G	108	248.135	131.009	-28.042	1.00	39.15	GS7
ATOM	40584	N	ASN	G	109	246.089	130.940	-27.126	1.00	46.15	GS7
ATOM	40585	CA	ASN	G	109	246.570	130.199	-25.968	1.00	46.15	GS7
ATOM	40586	CB	ASN	G	109	245.612	130.354	-24.800	1.00	67.68	GS7
ATOM	40587	CG	ASN	G	109	245.865	131.608	-24.031	1.00	67.68	GS7
ATOM	40588	OD1	ASN	G	109	246.945	131.790	-23.469	1.00	67.68	GS7
ATOM	40589	ND2	ASN	G	109	244.881	132.495	-24.004	1.00	67.68	GS7
ATOM	40590	C	ASN	G	109	246.793	128.728	-26.255	1.00	46.15	GS7
ATOM	40591	O	ASN	G	109	247.131	127.950	-25.352	1.00	46.15	GS7
ATOM	40592	N	GLN	G	110	246.600	128.350	-27.515	1.00	73.63	GS7
ATOM	40593	CA	GLN	G	110	246.803	126.972	-27.942	1.00	73.63	GS7
ATOM	40594	CB	GLN	G	110	245.777	126.579	-29.006	1.00	106.56	GS7
ATOM	40595	CG	GLN	G	110	244.465	126.096	-28.435	1.00	106.56	GS7
ATOM	40596	CD	GLN	G	110	244.659	124.955	-27.455	1.00	106.56	GS7
ATOM	40597	OE1	GLN	G	110	245.152	125.150	-26.341	1.00	106.56	GS7
ATOM	40598	NE2	GLN	G	110	244.282	123.751	-27.870	1.00	106.56	GS7
ATOM	40599	C	GLN	G	110	248.203	126.856	-28.512	1.00	73.63	GS7
ATOM	40600	O	GLN	G	110	248.730	125.756	-28.701	1.00	73.63	GS7
ATOM	40601	N	ARG	G	111	248.799	128.011	-28.783	1.00	75.34	GS7
ATOM	40602	CA	ARG	G	111	250.141	128.071	-29.331	1.00	75.34	GS7
ATOM	40603	CB	ARG	G	111	250.484	129.511	-29.698	1.00	72.47	GS7
ATOM	40604	CG	ARG	G	111	250.206	129.850	-31.146	1.00	72.47	GS7
ATOM	40605	CD	ARG	G	111	250.044	131.343	-31.319	1.00	72.47	GS7
ATOM	40606	NE	ARG	G	111	250.155	131.753	-32.716	1.00	72.47	GS7
ATOM	40607	CZ	ARG	G	111	251.301	131.799	-33.389	1.00	72.47	GS7
ATOM	40608	NH1	ARG	G	111	252.438	131.458	-32.789	1.00	72.47	GS7
ATOM	40609	NH2	ARG	G	111	251.313	132.192	-34.658	1.00	72.47	GS7
ATOM	40610	C	ARG	G	111	251.187	127.508	-28.375	1.00	75.34	GS7
ATOM	40611	O	ARG	G	111	250.881	127.133	-27.241	1.00	75.34	GS7
ATOM	40612	N	PRO	G	112	252.439	127.421	-28.842	1.00	75.42	GS7
ATOM	40613	CD	PRO	G	112	252.728	127.346	-30.287	1.00	48.80	GS7
ATOM	40614	CA	PRO	G	112	253.566	126.902	-28.062	1.00	75.42	GS7
ATOM	40615	CB	PRO	G	112	254.372	126.153	-29.115	1.00	48.80	GS7
ATOM	40616	CG	PRO	G	112	254.198	127.012	-30.317	1.00	48.80	GS7
ATOM	40617	C	PRO	G	112	254.432	127.883	-27.244	1.00	75.42	GS7
ATOM	40618	O	PRO	G	112	254.768	127.582	-26.098	1.00	75.42	GS7
ATOM	40619	N	GLU	G	113	254.804	129.032	-27.809	1.00	61.04	GS7
ATOM	40620	CA	GLU	G	113	255.639	129.981	-27.063	1.00	61.04	GS7
ATOM	40621	CB	GLU	G	113	255.671	131.357	-27.742	1.00	61.55	GS7
ATOM	40622	CG	GLU	G	113	254.445	131.721	-28.563	1.00	61.55	GS7
ATOM	40623	CD	GLU	G	113	254.479	131.131	-29.963	1.00	61.55	GS7
ATOM	40624	OE1	GLU	G	113	255.476	131.336	-30.687	1.00	61.55	GS7
ATOM	40625	OE2	GLU	G	113	253.501	130.465	-30.347	1.00	61.55	GS7
ATOM	40626	C	GLU	G	113	255.196	130.140	-25.608	1.00	61.04	GS7
ATOM	40627	O	GLU	G	113	254.042	130.455	-25.330	1.00	61.04	GS7
ATOM	40628	N	ARG	G	114	256.127	129.924	-24.684	1.00	47.88	GS7
ATOM	40629	CA	ARG	G	114	255.839	130.011	-23.259	1.00	47.88	GS7
ATOM	40630	CB	ARG	G	114	257.125	129.786	-22.456	1.00	69.29	GS7
ATOM	40631	CG	ARG	G	114	258.009	128.614	-22.898	1.00	69.29	GS7
ATOM	40632	CD	ARG	G	114	259.189	128.548	-21.938	1.00	69.29	GS7
ATOM	40633	NE	ARG	G	114	260.328	127.688	-22.294	1.00	69.29	GS7
ATOM	40634	CZ	ARG	G	114	260.302	126.358	-22.363	1.00	69.29	GS7
ATOM	40635	NH1	ARG	G	114	259.177	125.696	-22.121	1.00	69.29	GS7
ATOM	40636	NH2	ARG	G	114	261.416	125.679	-22.621	1.00	69.29	GS7
ATOM	40637	C	ARG	G	114	255.175	131.332	-22.817	1.00	47.88	GS7
ATOM	40638	O	ARG	G	114	254.111	131.321	-22.194	1.00	47.88	GS7
ATOM	40639	N	ARG	G	115	255.796	132.465	-23.137	1.00	58.23	GS7
ATOM	40640	CA	ARG	G	115	255.261	133.772	-22.748	1.00	58.23	GS7
ATOM	40641	CB	ARG	G	115	256.288	134.865	-23.036	1.00	129.63	GS7
ATOM	40642	CG	ARG	G	115	257.420	134.943	-22.025	1.00	129.63	GS7



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ATOM	40643	CD	ARG	G	115	258.508	135.871	-22.531	1.00129.63	GS7
ATOM	40644	NE	ARG	G	115	257.959	137.148	-22.977	1.00129.63	GS7
ATOM	40645	CZ	ARG	G	115	258.372	137.798	-24.061	1.00129.63	GS7
ATOM	40646	NH1	ARG	G	115	259.341	137.290	-24.811	1.00129.63	GS7
ATOM	40647	NH2	ARG	G	115	257.810	138.951	-24.404	1.00129.63	GS7
ATOM	40648	C	ARG	G	115	253.930	134.140	-23.406	1.00 58.23	GS7
ATOM	40649	O	ARG	G	115	253.825	134.239	-24.632	1.00 58.23	GS7
ATOM	40650	N	ALA	G	116	252.921	134.359	-22.569	1.00 55.03	GS7
ATOM	40651	CA	ALA	G	116	251.584	134.706	-23.029	1.00 55.03	GS7
ATOM	40652	CB	ALA	G	116	250.689	135.000	-21.830	1.00 45.16	GS7
ATOM	40653	C	ALA	G	116	251.560	135.888	-23.984	1.00 55.03	GS7
ATOM	40654	O	ALA	G	116	250.997	135.801	-25.081	1.00 55.03	GS7
ATOM	40655	N	ALA	G	117	252.165	136.994	-23.555	1.00 66.13	GS7
ATOM	40656	CA	ALA	G	117	252.203	138.219	-24.347	1.00 66.13	GS7
ATOM	40657	CB	ALA	G	117	253.162	139.208	-23.715	1.00 44.82	GS7
ATOM	40658	C	ALA	G	117	252.604	137.949	-25.792	1.00 66.13	GS7
ATOM	40659	O	ALA	G	117	252.205	138.667	-26.714	1.00 66.13	GS7
ATOM	40660	N	VAL	G	118	253.396	136.904	-25.981	1.00 91.91	GS7
ATOM	40661	CA	VAL	G	118	253.851	136.531	-27.307	1.00 91.91	GS7
ATOM	40662	CB	VAL	G	118	254.938	135.465	-27.233	1.00 52.84	GS7
ATOM	40663	CG1	VAL	G	118	255.497	135.223	-28.607	1.00 52.84	GS7
ATOM	40664	CG2	VAL	G	118	256.021	135.888	-26.269	1.00 52.84	GS7
ATOM	40665	C	VAL	G	118	252.696	135.951	-28.104	1.00 91.91	GS7
ATOM	40666	O	VAL	G	118	252.288	136.500	-29.127	1.00 91.91	GS7
ATOM	40667	N	ARG	G	119	252.179	134.828	-27.620	1.00 70.65	GS7
ATOM	40668	CA	ARG	G	119	251.079	134.147	-28.276	1.00 70.65	GS7
ATOM	40669	CB	ARG	G	119	250.404	133.194	-27.304	1.00 51.99	GS7
ATOM	40670	CG	ARG	G	119	251.286	132.054	-26.905	1.00 51.99	GS7
ATOM	40671	CD	ARG	G	119	250.460	130.991	-26.269	1.00 51.99	GS7
ATOM	40672	NE	ARG	G	119	249.823	131.495	-25.061	1.00 51.99	GS7
ATOM	40673	CZ	ARG	G	119	250.479	131.809	-23.945	1.00 51.99	GS7
ATOM	40674	NH1	ARG	G	119	251.799	131.675	-23.878	1.00 51.99	GS7
ATOM	40675	NH2	ARG	G	119	249.811	132.248	-22.886	1.00 51.99	GS7
ATOM	40676	C	ARG	G	119	250.045	135.086	-28.870	1.00 70.65	GS7
ATOM	40677	O	ARG	G	119	249.589	134.875	-29.993	1.00 70.65	GS7
ATOM	40678	N	ILE	G	120	249.663	136.120	-28.129	1.00 55.28	GS7
ATOM	40679	CA	ILE	G	120	248.677	137.041	-28.663	1.00 55.28	GS7
ATOM	40680	CB	ILE	G	120	248.273	138.111	-27.651	1.00 56.86	GS7
ATOM	40681	CG2	ILE	G	120	247.442	139.192	-28.354	1.00 56.86	GS7
ATOM	40682	CG1	ILE	G	120	247.523	137.459	-26.488	1.00 56.86	GS7
ATOM	40683	CD1	ILE	G	120	246.159	138.073	-26.200	1.00 56.86	GS7
ATOM	40684	C	ILE	G	120	249.269	137.739	-29.869	1.00 55.28	GS7
ATOM	40685	O	ILE	G	120	248.672	137.750	-30.959	1.00 55.28	GS7
ATOM	40686	N	ALA	G	121	250.451	138.318	-29.665	1.00 62.94	GS7
ATOM	40687	CA	ALA	G	121	251.147	139.042	-30.725	1.00 62.94	GS7
ATOM	40688	CB	ALA	G	121	252.547	139.437	-30.255	1.00 67.55	GS7
ATOM	40689	C	ALA	G	121	251.228	138.198	-31.993	1.00 62.94	GS7
ATOM	40690	O	ALA	G	121	250.777	138.609	-33.065	1.00 62.94	GS7
ATOM	40691	N	HIS	G	122	251.792	137.008	-31.860	1.00 71.17	GS7
ATOM	40692	CA	HIS	G	122	251.925	136.129	-33.001	1.00 71.17	GS7
ATOM	40693	CB	HIS	G	122	252.590	134.829	-32.569	1.00 80.13	GS7
ATOM	40694	CG	HIS	G	122	254.062	134.964	-32.361	1.00 80.13	GS7
ATOM	40695	CD2	HIS	G	122	254.914	135.968	-32.679	1.00 80.13	GS7
ATOM	40696	ND1	HIS	G	122	254.829	133.977	-31.783	1.00 80.13	GS7
ATOM	40697	CE1	HIS	G	122	256.091	134.368	-31.753	1.00 80.13	GS7
ATOM	40698	NE2	HIS	G	122	256.169	135.573	-32.290	1.00 80.13	GS7
ATOM	40699	C	HIS	G	122	250.597	135.856	-33.682	1.00 71.17	GS7
ATOM	40700	O	HIS	G	122	250.382	136.291	-34.817	1.00 71.17	GS7
ATOM	40701	N	GLU	G	123	249.711	135.149	-32.988	1.00 61.03	GS7
ATOM	40702	CA	GLU	G	123	248.401	134.816	-33.525	1.00 61.03	GS7
ATOM	40703	CB	GLU	G	123	247.457	134.423	-32.382	1.00 69.60	GS7
ATOM	40704	CG	GLU	G	123	246.150	133.783	-32.842	1.00 69.60	GS7
ATOM	40705	CD	GLU	G	123	246.355	132.443	-33.536	1.00 69.60	GS7
ATOM	40706	OE1	GLU	G	123	245.386	131.920	-34.127	1.00 69.60	GS7
ATOM	40707	OE2	GLU	G	123	247.482	131.906	-33.489	1.00 69.60	GS7
ATOM	40708	C	GLU	G	123	247.821	135.996	-34.324	1.00 61.03	GS7
ATOM	40709	O	GLU	G	123	247.417	135.838	-35.486	1.00 61.03	GS7
ATOM	40710	N	LEU	G	124	247.794	137.176	-33.708	1.00 57.63	GS7
ATOM	40711	CA	LEU	G	124	247.277	138.373	-34.368	1.00 57.63	GS7
ATOM	40712	CB	LEU	G	124	247.593	139.593	-33.516	1.00 53.13	GS7
ATOM	40713	CG	LEU	G	124	246.625	139.721	-32.352	1.00 53.13	GS7
ATOM	40714	CD1	LEU	G	124	247.143	140.716	-31.320	1.00 53.13	GS7
ATOM	40715	CD2	LEU	G	124	245.271	140.139	-32.912	1.00 53.13	GS7
ATOM	40716	C	LEU	G	124	247.837	138.576	-35.781	1.00 57.63	GS7
ATOM	40717	O	LEU	G	124	247.090	138.693	-36.757	1.00 57.63	GS7
ATOM	40718	N	MET	G	125	249.161	138.627	-35.876	1.00 76.60	GS7
ATOM	40719	CA	MET	G	125	249.824	138.813	-37.152	1.00 76.60	GS7



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ATOM	40720	CB	MET	G	125	251.330	138.809	-36.940	1.00	95.28	GS7
ATOM	40721	CG	MET	G	125	251.737	139.712	-35.796	1.00	95.28	GS7
ATOM	40722	SD	MET	G	125	253.508	139.879	-35.581	1.00	95.28	GS7
ATOM	40723	CE	MET	G	125	253.890	138.435	-34.600	1.00	95.28	GS7
ATOM	40724	C	MET	G	125	249.399	137.687	-38.078	1.00	76.60	GS7
ATOM	40725	O	MET	G	125	248.981	137.935	-39.206	1.00	76.60	GS7
ATOM	40726	N	ASP	G	126	249.493	136.451	-37.595	1.00	67.00	GS7
ATOM	40727	CA	ASP	G	126	249.092	135.288	-38.388	1.00	67.00	GS7
ATOM	40728	CB	ASP	G	126	249.054	134.027	-37.519	1.00	108.90	GS7
ATOM	40729	CG	ASP	G	126	250.424	133.414	-37.314	1.00	108.90	GS7
ATOM	40730	OD1	ASP	G	126	251.352	134.136	-36.887	1.00	108.90	GS7
ATOM	40731	OD2	ASP	G	126	250.572	132.202	-37.577	1.00	108.90	GS7
ATOM	40732	C	ASP	G	126	247.707	135.532	-38.969	1.00	67.00	GS7
ATOM	40733	O	ASP	G	126	247.472	135.353	-40.167	1.00	67.00	GS7
ATOM	40734	N	ALA	G	127	246.793	135.941	-38.097	1.00	70.66	GS7
ATOM	40735	CA	ALA	G	127	245.424	136.218	-38.491	1.00	70.66	GS7
ATOM	40736	CB	ALA	G	127	244.672	136.816	-37.328	1.00	64.49	GS7
ATOM	40737	C	ALA	G	127	245.422	137.184	-39.663	1.00	70.66	GS7
ATOM	40738	O	ALA	G	127	244.658	137.025	-40.617	1.00	70.66	GS7
ATOM	40739	N	ALA	G	128	246.284	138.190	-39.578	1.00	75.52	GS7
ATOM	40740	CA	ALA	G	128	246.394	139.186	-40.630	1.00	75.52	GS7
ATOM	40741	CB	ALA	G	128	247.433	140.219	-40.253	1.00	17.90	GS7
ATOM	40742	C	ALA	G	128	246.777	138.519	-41.945	1.00	75.52	GS7
ATOM	40743	O	ALA	G	128	246.071	138.650	-42.950	1.00	75.52	GS7
ATOM	40744	N	GLU	G	129	247.897	137.800	-41.928	1.00	99.18	GS7
ATOM	40745	CA	GLU	G	129	248.390	137.108	-43.112	1.00	99.18	GS7
ATOM	40746	CB	GLU	G	129	249.655	136.318	-42.774	1.00	183.33	GS7
ATOM	40747	CG	GLU	G	129	250.827	137.199	-42.369	1.00	183.33	GS7
ATOM	40748	CD	GLU	G	129	251.173	138.224	-43.434	1.00	183.33	GS7
ATOM	40749	OE1	GLU	G	129	251.580	137.815	-44.543	1.00	183.33	GS7
ATOM	40750	OE2	GLU	G	129	251.031	139.437	-43.164	1.00	183.33	GS7
ATOM	40751	C	GLU	G	129	247.330	136.181	-43.685	1.00	99.18	GS7
ATOM	40752	O	GLU	G	129	247.270	135.970	-44.895	1.00	99.18	GS7
ATOM	40753	N	GLY	G	130	246.493	135.631	-42.813	1.00	57.33	GS7
ATOM	40754	CA	GLY	G	130	245.437	134.750	-43.269	1.00	57.33	GS7
ATOM	40755	C	GLY	G	130	245.684	133.316	-42.876	1.00	57.33	GS7
ATOM	40756	O	GLY	G	130	245.132	132.395	-43.471	1.00	57.33	GS7
ATOM	40757	N	LYS	G	131	246.514	133.134	-41.860	1.00	71.80	GS7
ATOM	40758	CA	LYS	G	131	246.866	131.812	-41.363	1.00	71.80	GS7
ATOM	40759	CB	LYS	G	131	248.344	131.546	-41.661	1.00	107.48	GS7
ATOM	40760	CG	LYS	G	131	249.224	132.760	-41.381	1.00	107.48	GS7
ATOM	40761	CD	LYS	G	131	250.695	132.544	-41.725	1.00	107.48	GS7
ATOM	40762	CE	LYS	G	131	251.504	133.805	-41.384	1.00	107.48	GS7
ATOM	40763	NZ	LYS	G	131	252.981	133.642	-41.488	1.00	107.48	GS7
ATOM	40764	C	LYS	G	131	246.619	131.794	-39.860	1.00	71.80	GS7
ATOM	40765	O	LYS	G	131	246.102	132.764	-39.307	1.00	71.80	GS7
ATOM	40766	N	GLY	G	132	246.982	130.697	-39.202	1.00	85.69	GS7
ATOM	40767	CA	GLY	G	132	246.804	130.618	-37.763	1.00	85.69	GS7
ATOM	40768	C	GLY	G	132	245.554	129.902	-37.289	1.00	85.69	GS7
ATOM	40769	O	GLY	G	132	244.530	129.885	-37.983	1.00	85.69	GS7
ATOM	40770	N	GLY	G	133	245.645	129.327	-36.088	1.00	78.26	GS7
ATOM	40771	CA	GLY	G	133	244.535	128.590	-35.499	1.00	78.26	GS7
ATOM	40772	C	GLY	G	133	243.186	129.288	-35.507	1.00	78.26	GS7
ATOM	40773	O	GLY	G	133	242.148	128.642	-35.653	1.00	78.26	GS7
ATOM	40774	N	ALA	G	134	243.197	130.606	-35.338	1.00	54.62	GS7
ATOM	40775	CA	ALA	G	134	241.965	131.377	-35.337	1.00	54.62	GS7
ATOM	40776	CB	ALA	G	134	242.258	132.834	-35.071	1.00	95.01	GS7
ATOM	40777	C	ALA	G	134	241.325	131.222	-36.697	1.00	54.62	GS7
ATOM	40778	O	ALA	G	134	240.315	130.542	-36.841	1.00	54.62	GS7
ATOM	40779	N	VAL	G	135	241.936	131.841	-37.700	1.00	63.38	GS7
ATOM	40780	CA	VAL	G	135	241.419	131.782	-39.060	1.00	63.38	GS7
ATOM	40781	CB	VAL	G	135	242.478	132.256	-40.077	1.00	74.99	GS7
ATOM	40782	CG1	VAL	G	135	241.918	132.169	-41.492	1.00	74.99	GS7
ATOM	40783	CG2	VAL	G	135	242.893	133.688	-39.763	1.00	74.99	GS7
ATOM	40784	C	VAL	G	135	240.934	130.389	-39.461	1.00	63.38	GS7
ATOM	40785	O	VAL	G	135	239.900	130.254	-40.118	1.00	63.38	GS7
ATOM	40786	N	LYS	G	136	241.673	129.354	-39.067	1.00	63.31	GS7
ATOM	40787	CA	LYS	G	136	241.278	127.993	-39.405	1.00	63.31	GS7
ATOM	40788	CB	LYS	G	136	242.215	126.991	-38.740	1.00	101.57	GS7
ATOM	40789	CG	LYS	G	136	241.929	125.549	-39.105	1.00	101.57	GS7
ATOM	40790	CD	LYS	G	136	241.554	124.742	-37.869	1.00	101.57	GS7
ATOM	40791	CE	LYS	G	136	242.674	124.774	-36.824	1.00	101.57	GS7
ATOM	40792	NZ	LYS	G	136	242.344	124.054	-35.554	1.00	101.57	GS7
ATOM	40793	C	LYS	G	136	239.826	127.737	-38.979	1.00	63.31	GS7
ATOM	40794	O	LYS	G	136	238.964	127.513	-39.835	1.00	63.31	GS7
ATOM	40795	N	LYS	G	137	239.557	127.792	-37.668	1.00	70.36	GS7
ATOM	40796	CA	LYS	G	137	238.207	127.573	-37.119	1.00	70.36	GS7



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ATOM	40797	CB	LYS	G	137	238.114	128.059	-35.668	1.00	87.23	GS7
ATOM	40798	CG	LYS	G	137	239.151	127.436	-34.742	1.00	87.23	GS7
ATOM	40799	CD	LYS	G	137	238.924	127.785	-33.262	1.00	87.23	GS7
ATOM	40800	CE	LYS	G	137	239.929	127.057	-32.361	1.00	87.23	GS7
ATOM	40801	NZ	LYS	G	137	239.523	127.071	-30.934	1.00	87.23	GS7
ATOM	40802	C	LYS	G	137	237.180	128.317	-37.951	1.00	70.36	GS7
ATOM	40803	O	LYS	G	137	236.204	127.734	-38.416	1.00	70.36	GS7
ATOM	40804	N	LYS	G	138	237.418	129.611	-38.135	1.00	57.45	GS7
ATOM	40805	CA	LYS	G	138	236.540	130.470	-38.919	1.00	57.45	GS7
ATOM	40806	CB	LYS	G	138	237.226	131.824	-39.132	1.00	51.67	GS7
ATOM	40807	CG	LYS	G	138	236.512	132.799	-40.057	1.00	51.67	GS7
ATOM	40808	CD	LYS	G	138	236.733	132.448	-41.520	1.00	51.67	GS7
ATOM	40809	CE	LYS	G	138	236.306	133.592	-42.422	1.00	51.67	GS7
ATOM	40810	NZ	LYS	G	138	236.402	133.236	-43.865	1.00	51.67	GS7
ATOM	40811	C	LYS	G	138	236.184	129.828	-40.264	1.00	57.45	GS7
ATOM	40812	O	LYS	G	138	235.029	129.870	-40.701	1.00	57.45	GS7
ATOM	40813	N	GLU	G	139	237.178	129.231	-40.916	1.00	86.37	GS7
ATOM	40814	CA	GLU	G	139	236.960	128.591	-42.208	1.00	86.37	GS7
ATOM	40815	CB	GLU	G	139	238.280	128.500	-42.968	1.00118.11	GS7	GS7
ATOM	40816	CG	GLU	G	139	238.906	129.854	-43.229	1.00118.11	GS7	GS7
ATOM	40817	CD	GLU	G	139	240.211	129.758	-43.992	1.00118.11	GS7	GS7
ATOM	40818	OE1	GLU	G	139	241.160	129.121	-43.485	1.00118.11	GS7	GS7
ATOM	40819	OE2	GLU	G	139	240.287	130.323	-45.104	1.00118.11	GS7	GS7
ATOM	40820	C	GLU	G	139	236.327	127.205	-42.074	1.00	86.37	GS7
ATOM	40821	O	GLU	G	139	235.520	126.808	-42.922	1.00	86.37	GS7
ATOM	40822	N	ASP	G	140	236.695	126.476	-41.016	1.00	79.56	GS7
ATOM	40823	CA	ASP	G	140	236.143	125.142	-40.756	1.00	79.56	GS7
ATOM	40824	CB	ASP	G	140	236.779	124.529	-39.506	1.00154.18	GS7	GS7
ATOM	40825	CG	ASP	G	140	238.255	124.232	-39.686	1.00154.18	GS7	GS7
ATOM	40826	OD1	ASP	G	140	239.029	125.175	-39.943	1.00154.18	GS7	GS7
ATOM	40827	OD2	ASP	G	140	238.644	123.052	-39.569	1.00154.18	GS7	GS7
ATOM	40828	C	ASP	G	140	234.639	125.294	-40.538	1.00	79.56	GS7
ATOM	40829	O	ASP	G	140	233.839	124.419	-40.880	1.00	79.56	GS7
ATOM	40830	N	VAL	G	141	234.272	126.426	-39.952	1.00	76.50	GS7
ATOM	40831	CA	VAL	G	141	232.885	126.745	-39.694	1.00	76.50	GS7
ATOM	40832	CB	VAL	G	141	232.771	128.003	-38.841	1.00	50.25	GS7
ATOM	40833	CG1	VAL	G	141	231.340	128.520	-38.861	1.00	50.25	GS7
ATOM	40834	CG2	VAL	G	141	233.219	127.690	-37.421	1.00	50.25	GS7
ATOM	40835	C	VAL	G	141	232.194	126.980	-41.020	1.00	76.50	GS7
ATOM	40836	O	VAL	G	141	231.318	126.213	-41.403	1.00	76.50	GS7
ATOM	40837	N	GLU	G	142	232.590	128.036	-41.725	1.00	48.11	GS7
ATOM	40838	CA	GLU	G	142	231.984	128.337	-43.022	1.00	48.11	GS7
ATOM	40839	CB	GLU	G	142	232.811	129.380	-43.758	1.00	89.34	GS7
ATOM	40840	CG	GLU	G	142	232.861	130.707	-43.055	1.00	89.34	GS7
ATOM	40841	CD	GLU	G	142	233.754	131.698	-43.766	1.00	89.34	GS7
ATOM	40842	OE1	GLU	G	142	233.715	132.891	-43.407	1.00	89.34	GS7
ATOM	40843	OE2	GLU	G	142	234.501	131.290	-44.681	1.00	89.34	GS7
ATOM	40844	C	GLU	G	142	231.843	127.078	-43.891	1.00	48.11	GS7
ATOM	40845	O	GLU	G	142	230.912	126.980	-44.697	1.00	48.11	GS7
ATOM	40846	N	ARG	G	143	232.775	126.133	-43.717	1.00	79.91	GS7
ATOM	40847	CA	ARG	G	143	232.772	124.866	-44.451	1.00	79.91	GS7
ATOM	40848	CB	ARG	G	143	234.025	124.052	-44.160	1.00118.98	GS7	GS7
ATOM	40849	CG	ARG	G	143	235.246	124.539	-44.870	1.00118.98	GS7	GS7
ATOM	40850	CD	ARG	G	143	236.425	123.681	-44.505	1.00118.98	GS7	GS7
ATOM	40851	NE	ARG	G	143	237.650	124.179	-45.113	1.00118.98	GS7	GS7
ATOM	40852	CZ	ARG	G	143	238.858	123.711	-44.830	1.00118.98	GS7	GS7
ATOM	40853	NH1	ARG	G	143	238.992	122.733	-43.945	1.00118.98	GS7	GS7
ATOM	40854	NH2	ARG	G	143	239.929	124.217	-45.428	1.00118.98	GS7	GS7
ATOM	40855	C	ARG	G	143	231.571	124.043	-44.045	1.00	79.91	GS7
ATOM	40856	O	ARG	G	143	230.879	123.499	-44.898	1.00	79.91	GS7
ATOM	40857	N	MET	G	144	231.356	123.922	-42.737	1.00	59.01	GS7
ATOM	40858	CA	MET	G	144	230.205	123.197	-42.208	1.00	59.01	GS7
ATOM	40859	CB	MET	G	144	230.074	123.460	-40.709	1.00120.96	GS7	GS7
ATOM	40860	CG	MET	G	144	230.957	122.598	-39.844	1.00120.96	GS7	GS7
ATOM	40861	SD	MET	G	144	230.252	120.955	-39.725	1.00120.96	GS7	GS7
ATOM	40862	CE	MET	G	144	229.028	121.205	-38.414	1.00120.96	GS7	GS7
ATOM	40863	C	MET	G	144	228.982	123.750	-42.939	1.00	59.01	GS7
ATOM	40864	O	MET	G	144	228.158	123.008	-43.469	1.00	59.01	GS7
ATOM	40865	N	ALA	G	145	228.866	125.069	-42.959	1.00	73.88	GS7
ATOM	40866	CA	ALA	G	145	227.768	125.698	-43.665	1.00	73.88	GS7
ATOM	40867	CB	ALA	G	145	227.737	127.169	-43.350	1.00	74.23	GS7
ATOM	40868	C	ALA	G	145	228.167	125.480	-45.110	1.00	73.88	GS7
ATOM	40869	O	ALA	G	145	229.252	124.959	-45.366	1.00	73.88	GS7
ATOM	40870	N	GLU	G	146	227.331	125.859	-46.067	1.00100.33	GS7	GS7
ATOM	40871	CA	GLU	G	146	227.740	125.664	-47.455	1.00100.33	GS7	GS7
ATOM	40872	CB	GLU	G	146	228.946	126.558	-47.774	1.00118.32	GS7	GS7
ATOM	40873	CG	GLU	G	146	228.642	127.774	-48.629	1.00118.32	GS7	GS7



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ATOM	40874	CD	GLU	G	146	228.214	127.397	-50.034	1.00118.32	GS7
ATOM	40875	OE1	GLU	G	146	228.938	126.607	-50.680	1.00118.32	GS7
ATOM	40876	OE2	GLU	G	146	227.161	127.890	-50.494	1.00118.32	GS7
ATOM	40877	C	GLU	G	146	228.127	124.206	-47.698	1.00100.33	GS7
ATOM	40878	O	GLU	G	146	228.772	123.882	-48.691	1.00100.33	GS7
ATOM	40879	N	ALA	G	147	227.748	123.338	-46.769	1.00 62.22	GS7
ATOM	40880	CA	ALA	G	147	228.032	121.913	-46.866	1.00 62.22	GS7
ATOM	40881	CB	ALA	G	147	229.231	121.562	-46.033	1.00 19.69	GS7
ATOM	40882	C	ALA	G	147	226.800	121.202	-46.337	1.00 62.22	GS7
ATOM	40883	O	ALA	G	147	226.663	119.978	-46.430	1.00 62.22	GS7
ATOM	40884	N	ASN	G	148	225.923	122.004	-45.751	1.00 85.95	GS7
ATOM	40885	CA	ASN	G	148	224.658	121.546	-45.214	1.00 85.95	GS7
ATOM	40886	CB	ASN	G	148	224.601	121.754	-43.713	1.00 72.01	GS7
ATOM	40887	CG	ASN	G	148	225.556	120.868	-42.976	1.00 72.01	GS7
ATOM	40888	OD1	ASN	G	148	225.327	119.670	-42.837	1.00 72.01	GS7
ATOM	40889	ND2	ASN	G	148	226.647	121.446	-42.503	1.00 72.01	GS7
ATOM	40890	C	ASN	G	148	223.708	122.500	-45.881	1.00 85.95	GS7
ATOM	40891	O	ASN	G	148	222.553	122.634	-45.485	1.00 85.95	GS7
ATOM	40892	N	ARG	G	149	224.228	123.173	-46.902	1.00 83.95	GS7
ATOM	40893	CA	ARG	G	149	223.466	124.145	-47.660	1.00 83.95	GS7
ATOM	40894	CB	ARG	G	149	224.398	124.874	-48.621	1.00126.60	GS7
ATOM	40895	CG	ARG	G	149	224.093	126.343	-48.731	1.00126.60	GS7
ATOM	40896	CD	ARG	G	149	223.365	126.620	-50.010	1.00126.60	GS7
ATOM	40897	NE	ARG	G	149	224.234	126.369	-51.152	1.00126.60	GS7
ATOM	40898	CZ	ARG	G	149	223.882	126.581	-52.413	1.00126.60	GS7
ATOM	40899	NH1	ARG	G	149	222.670	127.048	-52.691	1.00126.60	GS7
ATOM	40900	NH2	ARG	G	149	224.742	126.338	-53.397	1.00126.60	GS7
ATOM	40901	C	ARG	G	149	222.304	123.484	-48.405	1.00 83.95	GS7
ATOM	40902	O	ARG	G	149	221.619	124.117	-49.209	1.00 83.95	GS7
ATOM	40903	N	ALA	G	150	222.094	122.201	-48.119	1.00 88.13	GS7
ATOM	40904	CA	ALA	G	150	221.009	121.422	-48.708	1.00 88.13	GS7
ATOM	40905	CB	ALA	G	150	221.445	119.974	-48.909	1.00110.50	GS7
ATOM	40906	C	ALA	G	150	219.845	121.493	-47.726	1.00 88.13	GS7
ATOM	40907	O	ALA	G	150	218.682	121.417	-48.113	1.00 88.13	GS7
ATOM	40908	N	TYR	G	151	220.180	121.629	-46.446	1.00 97.55	GS7
ATOM	40909	CA	TYR	G	151	219.183	121.752	-45.392	1.00 97.55	GS7
ATOM	40910	CB	TYR	G	151	219.601	120.976	-44.154	1.00 87.79	GS7
ATOM	40911	CG	TYR	G	151	219.882	119.515	-44.370	1.00 87.79	GS7
ATOM	40912	CD1	TYR	G	151	221.067	119.090	-44.963	1.00 87.79	GS7
ATOM	40913	CE1	TYR	G	151	221.371	117.729	-45.064	1.00 87.79	GS7
ATOM	40914	CD2	TYR	G	151	218.998	118.547	-43.895	1.00 87.79	GS7
ATOM	40915	CE2	TYR	G	151	219.287	117.189	-43.991	1.00 87.79	GS7
ATOM	40916	CZ	TYR	G	151	220.475	116.784	-44.570	1.00 87.79	GS7
ATOM	40917	OH	TYR	G	151	220.777	115.441	-44.620	1.00 87.79	GS7
ATOM	40918	C	TYR	G	151	219.106	123.229	-45.024	1.00 97.55	GS7
ATOM	40919	O	TYR	G	151	218.868	123.586	-43.869	1.00 97.55	GS7
ATOM	40920	N	ALA	G	152	219.328	124.084	-46.016	1.00104.38	GS7
ATOM	40921	CA	ALA	G	152	219.301	125.524	-45.813	1.00104.38	GS7
ATOM	40922	CB	ALA	G	152	220.327	126.190	-46.725	1.00 77.69	GS7
ATOM	40923	C	ALA	G	152	217.919	126.121	-46.061	1.00104.38	GS7
ATOM	40924	O	ALA	G	152	217.633	127.234	-45.619	1.00104.38	GS7
ATOM	40925	N	HIS	G	153	217.064	125.388	-46.770	1.00159.92	GS7
ATOM	40926	CA	HIS	G	153	215.718	125.870	-47.061	1.00159.92	GS7
ATOM	40927	CB	HIS	G	153	215.048	124.973	-48.099	1.00125.83	GS7
ATOM	40928	CG	HIS	G	153	214.924	123.549	-47.665	1.00125.83	GS7
ATOM	40929	CD2	HIS	G	153	213.849	122.732	-47.578	1.00125.83	GS7
ATOM	40930	ND1	HIS	G	153	216.006	122.807	-47.244	1.00125.83	GS7
ATOM	40931	CE1	HIS	G	153	215.602	121.593	-46.916	1.00125.83	GS7
ATOM	40932	NE2	HIS	G	153	214.297	121.520	-47.110	1.00125.83	GS7
ATOM	40933	C	HIS	G	153	214.882	125.917	-45.783	1.00159.92	GS7
ATOM	40934	O	HIS	G	153	213.668	126.121	-45.827	1.00159.92	GS7
ATOM	40935	N	TYR	G	154	215.542	125.705	-44.648	1.00122.17	GS7
ATOM	40936	CA	TYR	G	154	214.894	125.771	-43.342	1.00122.17	GS7
ATOM	40937	CB	TYR	G	154	215.396	124.657	-42.424	1.00112.44	GS7
ATOM	40938	CG	TYR	G	154	215.027	123.249	-42.842	1.00112.44	GS7
ATOM	40939	CD1	TYR	G	154	215.570	122.149	-42.175	1.00112.44	GS7
ATOM	40940	CE1	TYR	G	154	215.253	120.843	-42.544	1.00112.44	GS7
ATOM	40941	CD2	TYR	G	154	214.146	123.007	-43.895	1.00112.44	GS7
ATOM	40942	CE2	TYR	G	154	213.818	121.698	-44.270	1.00112.44	GS7
ATOM	40943	CZ	TYR	G	154	214.381	120.622	-43.589	1.00112.44	GS7
ATOM	40944	OH	TYR	G	154	214.096	119.327	-43.960	1.00112.44	GS7
ATOM	40945	C	TYR	G	154	215.306	127.123	-42.758	1.00122.17	GS7
ATOM	40946	O	TYR	G	154	215.202	127.353	-41.553	1.00122.17	GS7
ATOM	40947	N	ARG	G	155	215.785	127.995	-43.647	1.00169.58	GS7
ATOM	40948	CA	ARG	G	155	216.255	129.349	-43.340	1.00169.58	GS7
ATOM	40949	CB	ARG	G	155	215.386	130.381	-44.067	1.00147.96	GS7
ATOM	40950	CG	ARG	G	155	215.858	130.682	-45.484	1.00147.96	GS7



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ATOM	40951	CD	ARG	G	155	217.250	131.292	-45.451	1.00147.96	GS7
ATOM	40952	NE	ARG	G	155	217.808	131.495	-46.784	1.00147.96	GS7
ATOM	40953	CZ	ARG	G	155	218.996	132.047	-47.017	1.00147.96	GS7
ATOM	40954	NH1	ARG	G	155	219.754	132.453	-46.004	1.00147.96	GS7
ATOM	40955	NH2	ARG	G	155	219.430	132.193	-48.263	1.00147.96	GS7
ATOM	40956	C	ARG	G	155	216.412	129.760	-41.882	1.00169.58	GS7
ATOM	40957	O	ARG	G	155	217.495	130.188	-41.480	1.00169.58	GS7
ATOM	40958	N	TRP	G	156	215.340	129.655	-41.101	1.00184.06	GS7
ATOM	40959	CA	TRP	G	156	215.384	130.018	-39.686	1.00184.06	GS7
ATOM	40960	CB	TRP	G	156	216.637	129.419	-39.040	1.00126.69	GS7
ATOM	40961	CG	TRP	G	156	216.627	129.323	-37.545	1.00126.69	GS7
ATOM	40962	CD2	TRP	G	156	217.049	128.198	-36.770	1.00126.69	GS7
ATOM	40963	CE2	TRP	G	156	216.942	128.563	-35.410	1.00126.69	GS7
ATOM	40964	CE3	TRP	G	156	217.511	126.914	-37.093	1.00126.69	GS7
ATOM	40965	CD1	TRP	G	156	216.286	130.298	-36.651	1.00126.69	GS7
ATOM	40966	NE1	TRP	G	156	216.475	129.851	-35.367	1.00126.69	GS7
ATOM	40967	CZ2	TRP	G	156	217.281	127.687	-34.371	1.00126.69	GS7
ATOM	40968	CZ3	TRP	G	156	217.848	126.045	-36.060	1.00126.69	GS7
ATOM	40969	CH2	TRP	G	156	217.730	126.436	-34.716	1.00126.69	GS7
ATOM	40970	C	TRP	G	156	215.425	131.541	-39.582	1.00184.06	GS7
ATOM	40971	O	TRP	G	156	215.499	132.193	-40.645	1.00184.06	GS7
ATOM	40972	OXT	TRP	G	156	215.387	132.065	-38.451	1.00126.69	GS7
TER	40972		TRP	G	156					GS7
ATOM	40973	CB	MET	H	1	139.682	114.224	-41.526	1.00 80.25	HS8
ATOM	40974	CG	MET	H	1	138.217	114.318	-41.146	1.00 80.25	HS8
ATOM	40975	SD	MET	H	1	137.386	112.705	-41.272	1.00 80.25	HS8
ATOM	40976	CE	MET	H	1	137.489	112.358	-43.077	1.00 80.25	HS8
ATOM	40977	C	MET	H	1	140.527	115.651	-39.680	1.00 84.40	HS8
ATOM	40978	O	MET	H	1	141.224	114.937	-38.960	1.00 84.40	HS8
ATOM	40979	N	MET	H	1	141.916	115.278	-41.677	1.00 84.40	HS8
ATOM	40980	CA	MET	H	1	140.518	115.457	-41.186	1.00 84.40	HS8
ATOM	40981	N	LEU	H	2	139.763	116.624	-39.201	1.00 64.97	HS8
ATOM	40982	CA	LEU	H	2	139.696	116.868	-37.770	1.00 64.97	HS8
ATOM	40983	CB	LEU	H	2	138.861	118.113	-37.464	1.00 57.74	HS8
ATOM	40984	CG	LEU	H	2	139.491	119.467	-37.785	1.00 57.74	HS8
ATOM	40985	CD1	LEU	H	2	138.555	120.604	-37.371	1.00 57.74	HS8
ATOM	40986	CD2	LEU	H	2	140.815	119.582	-37.046	1.00 57.74	HS8
ATOM	40987	C	LEU	H	2	139.087	115.652	-37.081	1.00 64.97	HS8
ATOM	40988	O	LEU	H	2	137.869	115.495	-37.002	1.00 64.97	HS8
ATOM	40989	N	THR	H	3	139.959	114.781	-36.603	1.00 38.66	HS8
ATOM	40990	CA	THR	H	3	139.558	113.574	-35.899	1.00 38.66	HS8
ATOM	40991	CB	THR	H	3	140.812	112.894	-35.340	1.00 56.61	HS8
ATOM	40992	OG1	THR	H	3	140.438	111.765	-34.555	1.00 56.61	HS8
ATOM	40993	CG2	THR	H	3	141.589	113.862	-34.486	1.00 56.61	HS8
ATOM	40994	C	THR	H	3	138.545	113.859	-34.762	1.00 38.66	HS8
ATOM	40995	O	THR	H	3	137.622	113.085	-34.542	1.00 38.66	HS8
ATOM	40996	N	ASP	H	4	138.722	114.956	-34.034	1.00 39.24	HS8
ATOM	40997	CA	ASP	H	4	137.795	115.305	-32.970	1.00 39.24	HS8
ATOM	40998	CB	ASP	H	4	138.353	114.906	-31.604	1.00 89.34	HS8
ATOM	40999	CG	ASP	H	4	137.401	115.252	-30.459	1.00 89.34	HS8
ATOM	41000	OD1	ASP	H	4	136.904	116.397	-30.400	1.00 89.34	HS8
ATOM	41001	OD2	ASP	H	4	137.152	114.381	-29.604	1.00 89.34	HS8
ATOM	41002	C	ASP	H	4	137.539	116.816	-32.992	1.00 39.24	HS8
ATOM	41003	O	ASP	H	4	138.309	117.602	-32.420	1.00 39.24	HS8
ATOM	41004	N	PRO	H	5	136.444	117.244	-33.643	1.00 41.02	HS8
ATOM	41005	CD	PRO	H	5	135.519	116.425	-34.443	1.00 42.34	HS8
ATOM	41006	CA	PRO	H	5	136.090	118.661	-33.740	1.00 41.02	HS8
ATOM	41007	CB	PRO	H	5	134.738	118.624	-34.430	1.00 42.34	HS8
ATOM	41008	CG	PRO	H	5	134.890	117.460	-35.353	1.00 42.34	HS8
ATOM	41009	C	PRO	H	5	136.044	119.390	-32.407	1.00 41.02	HS8
ATOM	41010	O	PRO	H	5	136.635	120.464	-32.270	1.00 41.02	HS8
ATOM	41011	N	ILE	H	6	135.349	118.801	-31.433	1.00 36.12	HS8
ATOM	41012	CA	ILE	H	6	135.206	119.393	-30.091	1.00 36.12	HS8
ATOM	41013	CB	ILE	H	6	134.359	118.492	-29.177	1.00 22.09	HS8
ATOM	41014	CG2	ILE	H	6	134.303	119.090	-27.763	1.00 22.09	HS8
ATOM	41015	CG1	ILE	H	6	132.977	118.271	-29.807	1.00 22.09	HS8
ATOM	41016	CD1	ILE	H	6	132.238	119.559	-30.101	1.00 22.09	HS8
ATOM	41017	C	ILE	H	6	136.546	119.605	-29.395	1.00 36.12	HS8
ATOM	41018	O	ILE	H	6	136.790	120.640	-28.756	1.00 36.12	HS8
ATOM	41019	N	ALA	H	7	137.395	118.593	-29.505	1.00 59.30	HS8
ATOM	41020	CA	ALA	H	7	138.711	118.634	-28.910	1.00 59.30	HS8
ATOM	41021	CB	ALA	H	7	139.401	117.309	-29.102	1.00 52.53	HS8
ATOM	41022	C	ALA	H	7	139.489	119.730	-29.609	1.00 59.30	HS8
ATOM	41023	O	ALA	H	7	140.174	120.534	-28.969	1.00 59.30	HS8
ATOM	41024	N	ASP	H	8	139.382	119.765	-30.932	1.00 53.49	HS8
ATOM	41025	CA	ASP	H	8	140.090	120.784	-31.676	1.00 53.49	HS8
ATOM	41026	CB	ASP	H	8	139.704	120.766	-33.149	1.00 65.31	HS8



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ATOM	41027	CG	ASP	H	8	140.437	121.826	-33.941	1.00	65.31	HS8
ATOM	41028	OD1	ASP	H	8	141.682	121.747	-34.015	1.00	65.31	HS8
ATOM	41029	OD2	ASP	H	8	139.777	122.742	-34.474	1.00	65.31	HS8
ATOM	41030	C	ASP	H	8	139.714	122.126	-31.083	1.00	53.49	HS8
ATOM	41031	O	ASP	H	8	140.582	122.933	-30.754	1.00	53.49	HS8
ATOM	41032	N	MET	H	9	138.412	122.350	-30.935	1.00	45.12	HS8
ATOM	41033	CA	MET	H	9	137.937	123.601	-30.388	1.00	45.12	HS8
ATOM	41034	CB	MET	H	9	136.425	123.604	-30.238	1.00	43.16	HS8
ATOM	41035	CG	MET	H	9	135.925	124.890	-29.601	1.00	43.16	HS8
ATOM	41036	SD	MET	H	9	134.160	125.134	-29.802	1.00	43.16	HS8
ATOM	41037	CE	MET	H	9	133.519	124.016	-28.500	1.00	43.16	HS8
ATOM	41038	C	MET	H	9	138.545	123.940	-29.042	1.00	45.12	HS8
ATOM	41039	O	MET	H	9	139.236	124.954	-28.899	1.00	45.12	HS8
ATOM	41040	N	LEU	H	10	138.291	123.107	-28.045	1.00	50.84	HS8
ATOM	41041	CA	LEU	H	10	138.817	123.404	-26.725	1.00	50.84	HS8
ATOM	41042	CB	LEU	H	10	138.604	122.205	-25.806	1.00	29.19	HS8
ATOM	41043	CG	LEU	H	10	137.124	121.825	-25.723	1.00	29.19	HS8
ATOM	41044	CD1	LEU	H	10	136.944	120.500	-25.015	1.00	29.19	HS8
ATOM	41045	CD2	LEU	H	10	136.371	122.941	-25.013	1.00	29.19	HS8
ATOM	41046	C	LEU	H	10	140.290	123.795	-26.804	1.00	50.84	HS8
ATOM	41047	O	LEU	H	10	140.741	124.726	-26.117	1.00	50.84	HS8
ATOM	41048	N	THR	H	11	141.033	123.112	-27.668	1.00	45.28	HS8
ATOM	41049	CA	THR	H	11	142.446	123.417	-27.811	1.00	45.28	HS8
ATOM	41050	CB	THR	H	11	143.159	122.384	-28.687	1.00	41.46	HS8
ATOM	41051	OG1	THR	H	11	143.073	121.092	-28.067	1.00	41.46	HS8
ATOM	41052	CG2	THR	H	11	144.622	122.759	-28.848	1.00	41.46	HS8
ATOM	41053	C	THR	H	11	142.662	124.814	-28.390	1.00	45.28	HS8
ATOM	41054	O	THR	H	11	143.413	125.607	-27.824	1.00	45.28	HS8
ATOM	41055	N	ARG	H	12	142.009	125.121	-29.507	1.00	40.93	HS8
ATOM	41056	CA	ARG	H	12	142.150	126.440	-30.103	1.00	40.93	HS8
ATOM	41057	CB	ARG	H	12	141.117	126.659	-31.189	1.00	37.21	HS8
ATOM	41058	CG	ARG	H	12	141.158	125.643	-32.297	1.00	37.21	HS8
ATOM	41059	CD	ARG	H	12	140.488	126.235	-33.523	1.00	37.21	HS8
ATOM	41060	NE	ARG	H	12	140.657	125.443	-34.741	1.00	37.21	HS8
ATOM	41061	CZ	ARG	H	12	140.719	125.978	-35.959	1.00	37.21	HS8
ATOM	41062	NH1	ARG	H	12	140.633	127.296	-36.111	1.00	37.21	HS8
ATOM	41063	NH2	ARG	H	12	140.862	125.206	-37.026	1.00	37.21	HS8
ATOM	41064	C	ARG	H	12	141.961	127.481	-29.009	1.00	40.93	HS8
ATOM	41065	O	ARG	H	12	142.810	128.358	-28.842	1.00	40.93	HS8
ATOM	41066	N	ILE	H	13	140.857	127.380	-28.263	1.00	33.40	HS8
ATOM	41067	CA	ILE	H	13	140.576	128.306	-27.155	1.00	33.40	HS8
ATOM	41068	CB	ILE	H	13	139.271	127.879	-26.383	1.00	17.23	HS8
ATOM	41069	CG2	ILE	H	13	139.086	128.681	-25.092	1.00	17.23	HS8
ATOM	41070	CG1	ILE	H	13	138.050	128.128	-27.258	1.00	17.23	HS8
ATOM	41071	CD1	ILE	H	13	136.903	127.204	-26.932	1.00	17.23	HS8
ATOM	41072	C	ILE	H	13	141.781	128.311	-26.191	1.00	33.40	HS8
ATOM	41073	O	ILE	H	13	142.299	129.385	-25.818	1.00	33.40	HS8
ATOM	41074	N	ARG	H	14	142.240	127.115	-25.809	1.00	35.69	HS8
ATOM	41075	CA	ARG	H	14	143.376	127.020	-24.899	1.00	35.69	HS8
ATOM	41076	CB	ARG	H	14	143.757	125.567	-24.611	1.00	30.52	HS8
ATOM	41077	CG	ARG	H	14	144.806	125.482	-23.489	1.00	30.52	HS8
ATOM	41078	CD	ARG	H	14	145.374	124.073	-23.223	1.00	30.52	HS8
ATOM	41079	NE	ARG	H	14	144.371	123.022	-23.073	1.00	30.52	HS8
ATOM	41080	CZ	ARG	H	14	143.945	122.264	-24.080	1.00	30.52	HS8
ATOM	41081	NH1	ARG	H	14	144.437	122.445	-25.298	1.00	30.52	HS8
ATOM	41082	NH2	ARG	H	14	143.028	121.321	-23.877	1.00	30.52	HS8
ATOM	41083	C	ARG	H	14	144.603	127.732	-25.452	1.00	35.69	HS8
ATOM	41084	O	ARG	H	14	145.211	128.573	-24.773	1.00	35.69	HS8
ATOM	41085	N	ASN	H	15	144.969	127.388	-26.686	1.00	50.73	HS8
ATOM	41086	CA	ASN	H	15	146.134	127.986	-27.330	1.00	50.73	HS8
ATOM	41087	CB	ASN	H	15	146.378	127.357	-28.709	1.00	40.57	HS8
ATOM	41088	CG	ASN	H	15	146.884	125.913	-28.634	1.00	40.57	HS8
ATOM	41089	OD1	ASN	H	15	147.531	125.506	-27.662	1.00	40.57	HS8
ATOM	41090	ND2	ASN	H	15	146.608	125.140	-29.687	1.00	40.57	HS8
ATOM	41091	C	ASN	H	15	145.985	129.499	-27.495	1.00	50.73	HS8
ATOM	41092	O	ASN	H	15	146.926	130.260	-27.250	1.00	50.73	HS8
ATOM	41093	N	ALA	H	16	144.799	129.930	-27.909	1.00	26.76	HS8
ATOM	41094	CA	ALA	H	16	144.538	131.344	-28.127	1.00	26.76	HS8
ATOM	41095	CB	ALA	H	16	143.122	131.528	-28.646	1.00	47.62	HS8
ATOM	41096	C	ALA	H	16	144.734	132.174	-26.869	1.00	26.76	HS8
ATOM	41097	O	ALA	H	16	145.367	133.240	-26.898	1.00	26.76	HS8
ATOM	41098	N	THR	H	17	144.188	131.683	-25.761	1.00	29.83	HS8
ATOM	41099	CA	THR	H	17	144.284	132.412	-24.506	1.00	29.83	HS8
ATOM	41100	CB	THR	H	17	143.307	131.858	-23.499	1.00	23.59	HS8
ATOM	41101	OG1	THR	H	17	143.652	130.506	-23.190	1.00	23.59	HS8
ATOM	41102	CG2	THR	H	17	141.920	131.869	-24.099	1.00	23.59	HS8
ATOM	41103	C	THR	H	17	145.677	132.423	-23.916	1.00	29.83	HS8



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ATOM	41104	O	THR	H	17	146.050	133.376	-23.242	1.00	29.83	HS8
ATOM	41105	N	ARG	H	18	146.456	131.379	-24.163	1.00	32.80	HS8
ATOM	41106	CA	ARG	H	18	147.810	131.361	-23.638	1.00	32.80	HS8
ATOM	41107	CB	ARG	H	18	148.451	130.005	-23.904	1.00	76.02	HS8
ATOM	41108	CG	ARG	H	18	148.235	129.015	-22.787	1.00	76.02	HS8
ATOM	41109	CD	ARG	H	18	146.815	129.067	-22.278	1.00	76.02	HS8
ATOM	41110	NE	ARG	H	18	146.627	128.213	-21.107	1.00	76.02	HS8
ATOM	41111	CZ	ARG	H	18	145.519	128.182	-20.366	1.00	76.02	HS8
ATOM	41112	NH1	ARG	H	18	144.482	128.963	-20.665	1.00	76.02	HS8
ATOM	41113	NH2	ARG	H	18	145.444	127.365	-19.321	1.00	76.02	HS8
ATOM	41114	C	ARG	H	18	148.659	132.503	-24.229	1.00	32.80	HS8
ATOM	41115	O	ARG	H	18	149.690	132.872	-23.667	1.00	32.80	HS8
ATOM	41116	N	VAL	H	19	148.239	133.057	-25.364	1.00	52.12	HS8
ATOM	41117	CA	VAL	H	19	148.966	134.173	-25.968	1.00	52.12	HS8
ATOM	41118	CB	VAL	H	19	149.506	133.845	-27.370	1.00	33.50	HS8
ATOM	41119	CG1	VAL	H	19	150.425	132.659	-27.291	1.00	33.50	HS8
ATOM	41120	CG2	VAL	H	19	148.371	133.585	-28.331	1.00	33.50	HS8
ATOM	41121	C	VAL	H	19	148.026	135.366	-26.064	1.00	52.12	HS8
ATOM	41122	O	VAL	H	19	148.093	136.174	-26.989	1.00	52.12	HS8
ATOM	41123	N	TYR	H	20	147.107	135.420	-25.110	1.00	34.18	HS8
ATOM	41124	CA	TYR	H	20	146.152	136.500	-24.969	1.00	34.18	HS8
ATOM	41125	CB	TYR	H	20	146.871	137.617	-24.247	1.00	36.46	HS8
ATOM	41126	CG	TYR	H	20	147.300	137.124	-22.901	1.00	36.46	HS8
ATOM	41127	CD1	TYR	H	20	146.446	137.230	-21.813	1.00	36.46	HS8
ATOM	41128	CE1	TYR	H	20	146.769	136.686	-20.579	1.00	36.46	HS8
ATOM	41129	CD2	TYR	H	20	148.510	136.455	-22.725	1.00	36.46	HS8
ATOM	41130	CE2	TYR	H	20	148.850	135.900	-21.484	1.00	36.46	HS8
ATOM	41131	CZ	TYR	H	20	147.963	136.026	-20.414	1.00	36.46	HS8
ATOM	41132	OH	TYR	H	20	148.249	135.519	-19.164	1.00	36.46	HS8
ATOM	41133	C	TYR	H	20	145.381	137.046	-26.154	1.00	34.18	HS8
ATOM	41134	O	TYR	H	20	145.007	138.216	-26.134	1.00	34.18	HS8
ATOM	41135	N	LYS	H	21	145.113	136.219	-27.166	1.00	28.59	HS8
ATOM	41136	CA	LYS	H	21	144.340	136.694	-28.323	1.00	28.59	HS8
ATOM	41137	CB	LYS	H	21	144.039	135.547	-29.294	1.00	56.85	HS8
ATOM	41138	CG	LYS	H	21	145.231	134.712	-29.685	1.00	56.85	HS8
ATOM	41139	CD	LYS	H	21	146.407	135.567	-30.142	1.00	56.85	HS8
ATOM	41140	CE	LYS	H	21	146.884	135.176	-31.542	1.00	56.85	HS8
ATOM	41141	NZ	LYS	H	21	145.827	135.434	-32.571	1.00	56.85	HS8
ATOM	41142	C	LYS	H	21	142.992	137.316	-27.888	1.00	28.59	HS8
ATOM	41143	O	LYS	H	21	142.377	136.868	-26.915	1.00	28.59	HS8
ATOM	41144	N	GLU	H	22	142.525	138.343	-28.595	1.00	41.43	HS8
ATOM	41145	CA	GLU	H	22	141.241	138.914	-28.233	1.00	41.43	HS8
ATOM	41146	CB	GLU	H	22	141.078	140.310	-28.823	1.00	109.67	HS8
ATOM	41147	CG	GLU	H	22	140.069	141.131	-28.045	1.00	109.67	HS8
ATOM	41148	CD	GLU	H	22	139.647	142.403	-28.752	1.00	109.67	HS8
ATOM	41149	OE1	GLU	H	22	139.112	142.310	-29.877	1.00	109.67	HS8
ATOM	41150	OE2	GLU	H	22	139.840	143.497	-28.177	1.00	109.67	HS8
ATOM	41151	C	GLU	H	22	140.152	137.956	-28.777	1.00	41.43	HS8
ATOM	41152	O	GLU	H	22	139.359	137.378	-28.009	1.00	41.43	HS8
ATOM	41153	N	SER	H	23	140.131	137.772	-30.098	1.00	42.20	HS8
ATOM	41154	CA	SER	H	23	139.164	136.884	-30.750	1.00	42.20	HS8
ATOM	41155	CB	SER	H	23	138.722	137.493	-32.084	1.00	73.60	HS8
ATOM	41156	OG	SER	H	23	137.844	136.629	-32.790	1.00	73.60	HS8
ATOM	41157	C	SER	H	23	139.806	135.518	-31.000	1.00	42.20	HS8
ATOM	41158	O	SER	H	23	140.830	135.194	-30.404	1.00	42.20	HS8
ATOM	41159	N	THR	H	24	139.207	134.730	-31.890	1.00	66.60	HS8
ATOM	41160	CA	THR	H	24	139.720	133.405	-32.252	1.00	66.60	HS8
ATOM	41161	CB	THR	H	24	140.176	132.617	-30.997	1.00	40.35	HS8
ATOM	41162	OG1	THR	H	24	140.625	131.311	-31.375	1.00	40.35	HS8
ATOM	41163	CG2	THR	H	24	139.045	132.492	-30.009	1.00	40.35	HS8
ATOM	41164	C	THR	H	24	138.649	132.609	-33.012	1.00	66.60	HS8
ATOM	41165	O	THR	H	24	137.521	132.455	-32.542	1.00	66.60	HS8
ATOM	41166	N	ASP	H	25	139.002	132.108	-34.192	1.00	46.61	HS8
ATOM	41167	CA	ASP	H	25	138.050	131.361	-35.001	1.00	46.61	HS8
ATOM	41168	CB	ASP	H	25	138.316	131.621	-36.475	1.00	92.60	HS8
ATOM	41169	CG	ASP	H	25	138.053	133.054	-36.856	1.00	92.60	HS8
ATOM	41170	OD1	ASP	H	25	137.781	133.865	-35.939	1.00	92.60	HS8
ATOM	41171	OD2	ASP	H	25	138.120	133.368	-38.065	1.00	92.60	HS8
ATOM	41172	C	ASP	H	25	138.026	129.865	-34.753	1.00	46.61	HS8
ATOM	41173	O	ASP	H	25	138.950	129.302	-34.178	1.00	46.61	HS8
ATOM	41174	N	VAL	H	26	136.944	129.232	-35.192	1.00	41.75	HS8
ATOM	41175	CA	VAL	H	26	136.748	127.795	-35.050	1.00	41.75	HS8
ATOM	41176	CB	VAL	H	26	136.490	127.372	-33.553	1.00	12.46	HS8
ATOM	41177	CG1	VAL	H	26	136.144	128.589	-32.725	1.00	12.46	HS8
ATOM	41178	CG2	VAL	H	26	135.353	126.324	-33.457	1.00	12.46	HS8
ATOM	41179	C	VAL	H	26	135.561	127.406	-35.919	1.00	41.75	HS8
ATOM	41180	O	VAL	H	26	134.477	127.986	-35.805	1.00	41.75	HS8



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ATOM	41181	N	PRO	H	27	135.769	126.428	-36.811	1.00	41.97	HS8
ATOM	41182	CD	PRO	H	27	137.019	125.647	-36.805	1.00	55.93	HS8
ATOM	41183	CA	PRO	H	27	134.810	125.860	-37.763	1.00	41.97	HS8
ATOM	41184	CB	PRO	H	27	135.448	124.524	-38.118	1.00	55.93	HS8
ATOM	41185	CG	PRO	H	27	136.901	124.827	-38.059	1.00	55.93	HS8
ATOM	41186	C	PRO	H	27	133.452	125.678	-37.092	1.00	41.97	HS8
ATOM	41187	O	PRO	H	27	133.376	125.078	-36.019	1.00	41.97	HS8
ATOM	41188	N	ALA	H	28	132.386	126.165	-37.727	1.00	58.69	HS8
ATOM	41189	CA	ALA	H	28	131.043	126.085	-37.152	1.00	58.69	HS8
ATOM	41190	CB	ALA	H	28	130.128	127.066	-37.869	1.00	165.97	HS8
ATOM	41191	C	ALA	H	28	130.390	124.700	-37.123	1.00	58.69	HS8
ATOM	41192	O	ALA	H	28	130.591	123.884	-38.018	1.00	58.69	HS8
ATOM	41193	N	SER	H	29	129.600	124.457	-36.079	1.00	51.51	HS8
ATOM	41194	CA	SER	H	29	128.867	123.200	-35.896	1.00	51.51	HS8
ATOM	41195	CB	SER	H	29	129.815	122.055	-35.525	1.00	50.93	HS8
ATOM	41196	OG	SER	H	29	130.263	122.160	-34.181	1.00	50.93	HS8
ATOM	41197	C	SER	H	29	127.894	123.444	-34.743	1.00	51.51	HS8
ATOM	41198	O	SER	H	29	128.266	124.076	-33.744	1.00	51.51	HS8
ATOM	41199	N	ARG	H	30	126.658	122.959	-34.876	1.00	41.31	HS8
ATOM	41200	CA	ARG	H	30	125.657	123.158	-33.824	1.00	41.31	HS8
ATOM	41201	CB	ARG	H	30	124.429	122.271	-34.055	1.00	108.25	HS8
ATOM	41202	CG	ARG	H	30	123.531	122.658	-35.224	1.00	108.25	HS8
ATOM	41203	CD	ARG	H	30	122.689	123.898	-34.937	1.00	108.25	HS8
ATOM	41204	NE	ARG	H	30	121.792	124.204	-36.053	1.00	108.25	HS8
ATOM	41205	CZ	ARG	H	30	121.077	125.321	-36.164	1.00	108.25	HS8
ATOM	41206	NH1	ARG	H	30	121.144	126.255	-35.223	1.00	108.25	HS8
ATOM	41207	NH2	ARG	H	30	120.300	125.511	-37.226	1.00	108.25	HS8
ATOM	41208	C	ARG	H	30	126.260	122.807	-32.465	1.00	41.31	HS8
ATOM	41209	O	ARG	H	30	126.338	123.646	-31.561	1.00	41.31	HS8
ATOM	41210	N	PHE	H	31	126.703	121.557	-32.347	1.00	38.17	HS8
ATOM	41211	CA	PHE	H	31	127.275	121.040	-31.115	1.00	38.17	HS8
ATOM	41212	CB	PHE	H	31	127.843	119.643	-31.373	1.00	45.71	HS8
ATOM	41213	CG	PHE	H	31	128.292	118.933	-30.136	1.00	45.71	HS8
ATOM	41214	CD1	PHE	H	31	127.741	119.237	-28.900	1.00	45.71	HS8
ATOM	41215	CD2	PHE	H	31	129.230	117.920	-30.211	1.00	45.71	HS8
ATOM	41216	CE1	PHE	H	31	128.115	118.535	-27.752	1.00	45.71	HS8
ATOM	41217	CE2	PHE	H	31	129.612	117.212	-29.073	1.00	45.71	HS8
ATOM	41218	CZ	PHE	H	31	129.049	117.522	-27.842	1.00	45.71	HS8
ATOM	41219	C	PHE	H	31	128.340	121.959	-30.532	1.00	38.17	HS8
ATOM	41220	O	PHE	H	31	128.362	122.220	-29.326	1.00	38.17	HS8
ATOM	41221	N	LYS	H	32	129.224	122.455	-31.385	1.00	49.02	HS8
ATOM	41222	CA	LYS	H	32	130.264	123.339	-30.904	1.00	49.02	HS8
ATOM	41223	CB	LYS	H	32	131.240	123.661	-32.034	1.00	51.46	HS8
ATOM	41224	CG	LYS	H	32	132.608	123.067	-31.813	1.00	51.46	HS8
ATOM	41225	CD	LYS	H	32	133.512	123.233	-33.022	1.00	51.46	HS8
ATOM	41226	CE	LYS	H	32	133.168	122.235	-34.134	1.00	51.46	HS8
ATOM	41227	NZ	LYS	H	32	134.222	122.159	-35.219	1.00	51.46	HS8
ATOM	41228	C	LYS	H	32	129.610	124.605	-30.365	1.00	49.02	HS8
ATOM	41229	O	LYS	H	32	129.944	125.079	-29.271	1.00	49.02	HS8
ATOM	41230	N	GLU	H	33	128.663	125.145	-31.127	1.00	54.03	HS8
ATOM	41231	CA	GLU	H	33	127.966	126.352	-30.708	1.00	54.03	HS8
ATOM	41232	CB	GLU	H	33	126.972	126.784	-31.787	1.00	66.36	HS8
ATOM	41233	CG	GLU	H	33	126.223	128.065	-31.469	1.00	66.36	HS8
ATOM	41234	CD	GLU	H	33	125.418	128.599	-32.656	1.00	66.36	HS8
ATOM	41235	OE1	GLU	H	33	124.770	127.781	-33.361	1.00	66.36	HS8
ATOM	41236	OE2	GLU	H	33	125.424	129.841	-32.870	1.00	66.36	HS8
ATOM	41237	C	GLU	H	33	127.257	126.087	-29.379	1.00	54.03	HS8
ATOM	41238	O	GLU	H	33	127.270	126.933	-28.488	1.00	54.03	HS8
ATOM	41239	N	GLU	H	34	126.660	124.903	-29.239	1.00	34.53	HS8
ATOM	41240	CA	GLU	H	34	125.969	124.535	-27.999	1.00	34.53	HS8
ATOM	41241	CB	GLU	H	34	125.399	123.119	-28.090	1.00	94.71	HS8
ATOM	41242	CG	GLU	H	34	124.127	123.035	-28.899	1.00	94.71	HS8
ATOM	41243	CD	GLU	H	34	123.017	123.894	-28.320	1.00	94.71	HS8
ATOM	41244	OE1	GLU	H	34	122.015	124.114	-29.033	1.00	94.71	HS8
ATOM	41245	OE2	GLU	H	34	123.142	124.343	-27.156	1.00	94.71	HS8
ATOM	41246	C	GLU	H	34	126.918	124.608	-26.815	1.00	34.53	HS8
ATOM	41247	O	GLU	H	34	126.582	125.129	-25.752	1.00	34.53	HS8
ATOM	41248	N	ILE	H	35	128.113	124.076	-27.008	1.00	46.08	HS8
ATOM	41249	CA	ILE	H	35	129.107	124.088	-25.960	1.00	46.08	HS8
ATOM	41250	CB	ILE	H	35	130.341	123.298	-26.408	1.00	31.25	HS8
ATOM	41251	CG2	ILE	H	35	131.427	123.361	-25.366	1.00	31.25	HS8
ATOM	41252	CG1	ILE	H	35	129.917	121.852	-26.654	1.00	31.25	HS8
ATOM	41253	CD1	ILE	H	35	130.980	120.982	-27.251	1.00	31.25	HS8
ATOM	41254	C	ILE	H	35	129.468	125.529	-25.642	1.00	46.08	HS8
ATOM	41255	O	ILE	H	35	129.434	125.949	-24.480	1.00	46.08	HS8
ATOM	41256	N	LEU	H	36	129.788	126.295	-26.674	1.00	48.00	HS8
ATOM	41257	CA	LEU	H	36	130.157	127.686	-26.467	1.00	48.00	HS8



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ATOM	41258	CB	LEU	H	36	130.326	128.387	-27.820	1.00	31.64	HS8
ATOM	41259	CG	LEU	H	36	131.581	128.031	-28.627	1.00	31.64	HS8
ATOM	41260	CD1	LEU	H	36	131.504	128.680	-30.003	1.00	31.64	HS8
ATOM	41261	CD2	LEU	H	36	132.821	128.511	-27.886	1.00	31.64	HS8
ATOM	41262	C	LEU	H	36	129.131	128.430	-25.599	1.00	48.00	HS8
ATOM	41263	O	LEU	H	36	129.511	129.238	-24.726	1.00	48.00	HS8
ATOM	41264	N	ARG	H	37	127.844	128.138	-25.839	1.00	47.60	HS8
ATOM	41265	CA	ARG	H	37	126.732	128.754	-25.113	1.00	47.60	HS8
ATOM	41266	CB	ARG	H	37	125.418	128.066	-25.480	1.00	84.16	HS8
ATOM	41267	CG	ARG	H	37	124.294	128.998	-25.910	1.00	84.16	HS8
ATOM	41268	CD	ARG	H	37	122.958	128.257	-25.894	1.00	84.16	HS8
ATOM	41269	NE	ARG	H	37	121.939	128.893	-26.727	1.00	84.16	HS8
ATOM	41270	CZ	ARG	H	37	120.737	128.367	-26.967	1.00	84.16	HS8
ATOM	41271	NH1	ARG	H	37	120.417	127.200	-26.424	1.00	84.16	HS8
ATOM	41272	NH2	ARG	H	37	119.866	128.985	-27.770	1.00	84.16	HS8
ATOM	41273	C	ARG	H	37	126.968	128.653	-23.601	1.00	47.60	HS8
ATOM	41274	O	ARG	H	37	126.867	129.651	-22.883	1.00	47.60	HS8
ATOM	41275	N	ILE	H	38	127.276	127.447	-23.122	1.00	36.65	HS8
ATOM	41276	CA	ILE	H	38	127.549	127.239	-21.698	1.00	36.65	HS8
ATOM	41277	CB	ILE	H	38	127.815	125.767	-21.353	1.00	37.58	HS8
ATOM	41278	CG2	ILE	H	38	128.360	125.672	-19.960	1.00	37.58	HS8
ATOM	41279	CG1	ILE	H	38	126.531	124.961	-21.421	1.00	37.58	HS8
ATOM	41280	CD1	ILE	H	38	125.922	124.915	-22.804	1.00	37.58	HS8
ATOM	41281	C	ILE	H	38	128.810	127.999	-21.326	1.00	36.65	HS8
ATOM	41282	O	ILE	H	38	128.878	128.636	-20.273	1.00	36.65	HS8
ATOM	41283	N	LEU	H	39	129.815	127.899	-22.194	1.00	47.80	HS8
ATOM	41284	CA	LEU	H	39	131.075	128.576	-21.956	1.00	47.80	HS8
ATOM	41285	CB	LEU	H	39	132.003	128.463	-23.179	1.00	28.71	HS8
ATOM	41286	CG	LEU	H	39	133.044	127.332	-23.147	1.00	28.71	HS8
ATOM	41287	CD1	LEU	H	39	133.659	127.214	-21.743	1.00	28.71	HS8
ATOM	41288	CD2	LEU	H	39	132.370	126.038	-23.513	1.00	28.71	HS8
ATOM	41289	C	LEU	H	39	130.790	130.033	-21.639	1.00	47.80	HS8
ATOM	41290	O	LEU	H	39	131.330	130.588	-20.679	1.00	47.80	HS8
ATOM	41291	N	ALA	H	40	129.932	130.647	-22.445	1.00	46.52	HS8
ATOM	41292	CA	ALA	H	40	129.575	132.039	-22.225	1.00	46.52	HS8
ATOM	41293	CB	ALA	H	40	128.734	132.530	-23.365	1.00	34.14	HS8
ATOM	41294	C	ALA	H	40	128.816	132.197	-20.900	1.00	46.52	HS8
ATOM	41295	O	ALA	H	40	129.312	132.810	-19.957	1.00	46.52	HS8
ATOM	41296	N	ARG	H	41	127.609	131.638	-20.842	1.00	41.99	HS8
ATOM	41297	CA	ARG	H	41	126.770	131.683	-19.648	1.00	41.99	HS8
ATOM	41298	CB	ARG	H	41	125.707	130.593	-19.734	1.00	59.64	HS8
ATOM	41299	CG	ARG	H	41	124.750	130.532	-18.562	1.00	59.64	HS8
ATOM	41300	CD	ARG	H	41	123.919	129.279	-18.678	1.00	59.64	HS8
ATOM	41301	NE	ARG	H	41	123.432	129.107	-20.045	1.00	59.64	HS8
ATOM	41302	CZ	ARG	H	41	123.117	127.931	-20.584	1.00	59.64	HS8
ATOM	41303	NH1	ARG	H	41	123.237	126.814	-19.868	1.00	59.64	HS8
ATOM	41304	NH2	ARG	H	41	122.692	127.866	-21.844	1.00	59.64	HS8
ATOM	41305	C	ARG	H	41	127.574	131.499	-18.362	1.00	41.99	HS8
ATOM	41306	O	ARG	H	41	127.338	132.181	-17.372	1.00	41.99	HS8
ATOM	41307	N	GLU	H	42	128.524	130.577	-18.361	1.00	37.69	HS8
ATOM	41308	CA	GLU	H	42	129.304	130.365	-17.162	1.00	37.69	HS8
ATOM	41309	CB	GLU	H	42	129.957	128.994	-17.200	1.00	82.30	HS8
ATOM	41310	CG	GLU	H	42	128.966	127.898	-16.934	1.00	82.30	HS8
ATOM	41311	CD	GLU	H	42	128.073	128.233	-15.755	1.00	82.30	HS8
ATOM	41312	OE1	GLU	H	42	128.610	128.690	-14.716	1.00	82.30	HS8
ATOM	41313	OE2	GLU	H	42	126.841	128.037	-15.870	1.00	82.30	HS8
ATOM	41314	C	GLU	H	42	130.343	131.444	-16.968	1.00	37.69	HS8
ATOM	41315	O	GLU	H	42	131.145	131.396	-16.027	1.00	37.69	HS8
ATOM	41316	N	GLY	H	43	130.334	132.419	-17.865	1.00	48.15	HS8
ATOM	41317	CA	GLY	H	43	131.275	133.519	-17.768	1.00	48.15	HS8
ATOM	41318	C	GLY	H	43	132.739	133.201	-18.026	1.00	48.15	HS8
ATOM	41319	O	GLY	H	43	133.615	133.824	-17.419	1.00	48.15	HS8
ATOM	41320	N	PHE	H	44	133.011	132.246	-18.918	1.00	44.37	HS8
ATOM	41321	CA	PHE	H	44	134.385	131.869	-19.254	1.00	44.37	HS8
ATOM	41322	CB	PHE	H	44	134.496	130.363	-19.503	1.00	31.98	HS8
ATOM	41323	CG	PHE	H	44	134.561	129.556	-18.239	1.00	31.98	HS8
ATOM	41324	CD1	PHE	H	44	135.568	129.788	-17.311	1.00	31.98	HS8
ATOM	41325	CD2	PHE	H	44	133.610	128.581	-17.967	1.00	31.98	HS8
ATOM	41326	CE1	PHE	H	44	135.631	129.061	-16.130	1.00	31.98	HS8
ATOM	41327	CE2	PHE	H	44	133.659	127.844	-16.783	1.00	31.98	HS8
ATOM	41328	CZ	PHE	H	44	134.675	128.086	-15.862	1.00	31.98	HS8
ATOM	41329	C	PHE	H	44	134.862	132.618	-20.468	1.00	44.37	HS8
ATOM	41330	O	PHE	H	44	136.050	132.760	-20.692	1.00	44.37	HS8
ATOM	41331	N	ILE	H	45	133.927	133.105	-21.260	1.00	42.03	HS8
ATOM	41332	CA	ILE	H	45	134.299	133.851	-22.436	1.00	42.03	HS8
ATOM	41333	CB	ILE	H	45	134.346	132.957	-23.644	1.00	22.08	HS8
ATOM	41334	CG2	ILE	H	45	135.230	131.788	-23.351	1.00	22.08	HS8



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ATOM	41335	CG1	ILE	H	45	132.941	132.463	-23.976	1.00	22.08	HS8
ATOM	41336	CD1	ILE	H	45	132.887	131.579	-25.215	1.00	22.08	HS8
ATOM	41337	C	ILE	H	45	133.311	134.959	-22.706	1.00	42.03	HS8
ATOM	41338	O	ILE	H	45	132.105	134.765	-22.604	1.00	42.03	HS8
ATOM	41339	N	LYS	H	46	133.825	136.129	-23.051	1.00	53.46	HS8
ATOM	41340	CA	LYS	H	46	132.960	137.248	-23.349	1.00	53.46	HS8
ATOM	41341	CB	LYS	H	46	133.726	138.312	-24.142	1.00	40.96	HS8
ATOM	41342	CG	LYS	H	46	134.800	139.056	-23.351	1.00	40.96	HS8
ATOM	41343	CD	LYS	H	46	134.789	140.538	-23.726	1.00	40.96	HS8
ATOM	41344	CE	LYS	H	46	135.887	141.332	-23.031	1.00	40.96	HS8
ATOM	41345	NZ	LYS	H	46	137.255	140.931	-23.499	1.00	40.96	HS8
ATOM	41346	C	LYS	H	46	131.752	136.763	-24.148	1.00	53.46	HS8
ATOM	41347	O	LYS	H	46	130.636	137.200	-23.913	1.00	53.46	HS8
ATOM	41348	N	GLY	H	47	131.969	135.840	-25.076	1.00	42.21	HS8
ATOM	41349	CA	GLY	H	47	130.864	135.345	-25.881	1.00	42.21	HS8
ATOM	41350	C	GLY	H	47	131.312	134.925	-27.270	1.00	42.21	HS8
ATOM	41351	O	GLY	H	47	132.492	134.639	-27.486	1.00	42.21	HS8
ATOM	41352	N	TYR	H	48	130.405	134.920	-28.236	1.00	46.60	HS8
ATOM	41353	CA	TYR	H	48	130.807	134.481	-29.558	1.00	46.60	HS8
ATOM	41354	CB	TYR	H	48	130.975	132.979	-29.520	1.00	51.32	HS8
ATOM	41355	CG	TYR	H	48	129.645	132.274	-29.609	1.00	51.32	HS8
ATOM	41356	CD1	TYR	H	48	129.094	131.951	-30.853	1.00	51.32	HS8
ATOM	41357	CE1	TYR	H	48	127.844	131.372	-30.958	1.00	51.32	HS8
ATOM	41358	CD2	TYR	H	48	128.906	131.995	-28.466	1.00	51.32	HS8
ATOM	41359	CE2	TYR	H	48	127.650	131.414	-28.557	1.00	51.32	HS8
ATOM	41360	CZ	TYR	H	48	127.124	131.104	-29.809	1.00	51.32	HS8
ATOM	41361	OH	TYR	H	48	125.880	130.522	-29.922	1.00	51.32	HS8
ATOM	41362	C	TYR	H	48	129.764	134.795	-30.608	1.00	46.60	HS8
ATOM	41363	O	TYR	H	48	128.577	134.796	-30.292	1.00	46.60	HS8
ATOM	41364	N	GLU	H	49	130.185	135.021	-31.853	1.00	34.38	HS8
ATOM	41365	CA	GLU	H	49	129.231	135.283	-32.932	1.00	34.38	HS8
ATOM	41366	CB	GLU	H	49	129.196	136.769	-33.288	1.00	133.10	HS8
ATOM	41367	CG	GLU	H	49	130.493	137.341	-33.785	1.00	133.10	HS8
ATOM	41368	CD	GLU	H	49	130.390	138.832	-34.044	1.00	133.10	HS8
ATOM	41369	OE1	GLU	H	49	129.482	139.240	-34.800	1.00	133.10	HS8
ATOM	41370	OE2	GLU	H	49	131.211	139.601	-33.496	1.00	133.10	HS8
ATOM	41371	C	GLU	H	49	129.545	134.440	-34.167	1.00	34.38	HS8
ATOM	41372	O	GLU	H	49	130.705	134.119	-34.429	1.00	34.38	HS8
ATOM	41373	N	ARG	H	50	128.507	134.036	-34.897	1.00	57.37	HS8
ATOM	41374	CA	ARG	H	50	128.683	133.234	-36.106	1.00	57.37	HS8
ATOM	41375	CB	ARG	H	50	127.337	132.782	-36.646	1.00	52.96	HS8
ATOM	41376	CG	ARG	H	50	126.574	131.891	-35.722	1.00	52.96	HS8
ATOM	41377	CD	ARG	H	50	125.245	131.509	-36.327	1.00	52.96	HS8
ATOM	41378	NE	ARG	H	50	124.816	130.207	-35.831	1.00	52.96	HS8
ATOM	41379	CZ	ARG	H	50	123.668	129.612	-36.145	1.00	52.96	HS8
ATOM	41380	NH1	ARG	H	50	122.802	130.201	-36.964	1.00	52.96	HS8
ATOM	41381	NH2	ARG	H	50	123.391	128.414	-35.640	1.00	52.96	HS8
ATOM	41382	C	ARG	H	50	129.344	134.120	-37.136	1.00	57.37	HS8
ATOM	41383	O	ARG	H	50	128.893	135.232	-37.360	1.00	57.37	HS8
ATOM	41384	N	VAL	H	51	130.396	133.640	-37.780	1.00	62.88	HS8
ATOM	41385	CA	VAL	H	51	131.085	134.465	-38.763	1.00	62.88	HS8
ATOM	41386	CB	VAL	H	51	132.370	135.052	-38.162	1.00	68.92	HS8
ATOM	41387	CG1	VAL	H	51	133.014	136.005	-39.145	1.00	68.92	HS8
ATOM	41388	CG2	VAL	H	51	132.064	135.742	-36.856	1.00	68.92	HS8
ATOM	41389	C	VAL	H	51	131.479	133.680	-40.000	1.00	62.88	HS8
ATOM	41390	O	VAL	H	51	131.555	132.450	-39.960	1.00	62.88	HS8
ATOM	41391	N	ASP	H	52	131.731	134.390	-41.098	1.00	57.71	HS8
ATOM	41392	CA	ASP	H	52	132.175	133.743	-42.330	1.00	57.71	HS8
ATOM	41393	CB	ASP	H	52	131.282	134.126	-43.514	1.00	99.68	HS8
ATOM	41394	CG	ASP	H	52	130.058	133.231	-43.631	1.00	99.68	HS8
ATOM	41395	OD1	ASP	H	52	129.241	133.205	-42.686	1.00	99.68	HS8
ATOM	41396	OD2	ASP	H	52	129.913	132.546	-44.667	1.00	99.68	HS8
ATOM	41397	C	ASP	H	52	133.633	134.097	-42.630	1.00	57.71	HS8
ATOM	41398	O	ASP	H	52	134.035	135.262	-42.587	1.00	57.71	HS8
ATOM	41399	N	VAL	H	53	134.429	133.068	-42.897	1.00	54.44	HS8
ATOM	41400	CA	VAL	H	53	135.838	133.241	-43.211	1.00	54.44	HS8
ATOM	41401	CB	VAL	H	53	136.742	132.712	-42.085	1.00	46.63	HS8
ATOM	41402	CG1	VAL	H	53	138.166	132.665	-42.549	1.00	46.63	HS8
ATOM	41403	CG2	VAL	H	53	136.653	133.617	-40.890	1.00	46.63	HS8
ATOM	41404	C	VAL	H	53	136.113	132.456	-44.478	1.00	54.44	HS8
ATOM	41405	O	VAL	H	53	135.838	131.256	-44.547	1.00	54.44	HS8
ATOM	41406	N	ASP	H	54	136.645	133.146	-45.480	1.00	76.40	HS8
ATOM	41407	CA	ASP	H	54	136.956	132.532	-46.761	1.00	76.40	HS8
ATOM	41408	CB	ASP	H	54	138.106	131.529	-46.610	1.00	197.98	HS8
ATOM	41409	CG	ASP	H	54	138.536	130.925	-47.940	1.00	197.98	HS8
ATOM	41410	OD1	ASP	H	54	138.902	131.692	-48.856	1.00	197.98	HS8
ATOM	41411	OD2	ASP	H	54	138.508	129.682	-48.069	1.00	197.98	HS8



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ATOM	41412	C	ASP	H	54	135.725	131.836	-47.337	1.00	76.40	HS8
ATOM	41413	O	ASP	H	54	135.836	130.905	-48.133	1.00	76.40	HS8
ATOM	41414	N	GLY	H	55	134.543	132.272	-46.928	1.00	47.18	HS8
ATOM	41415	CA	GLY	H	55	133.349	131.657	-47.475	1.00	47.18	HS8
ATOM	41416	C	GLY	H	55	132.670	130.602	-46.624	1.00	47.18	HS8
ATOM	41417	O	GLY	H	55	131.487	130.301	-46.831	1.00	47.18	HS8
ATOM	41418	N	LYS	H	56	133.399	130.023	-45.675	1.00	55.35	HS8
ATOM	41419	CA	LYS	H	56	132.793	129.018	-44.816	1.00	55.35	HS8
ATOM	41420	CB	LYS	H	56	133.609	127.728	-44.815	1.00	68.97	HS8
ATOM	41421	CG	LYS	H	56	133.634	127.026	-46.151	1.00	68.97	HS8
ATOM	41422	CD	LYS	H	56	134.423	127.833	-47.141	1.00	68.97	HS8
ATOM	41423	CE	LYS	H	56	134.481	127.151	-48.475	1.00	68.97	HS8
ATOM	41424	NZ	LYS	H	56	135.302	127.964	-49.420	1.00	68.97	HS8
ATOM	41425	C	LYS	H	56	132.609	129.526	-43.393	1.00	55.35	HS8
ATOM	41426	O	LYS	H	56	133.371	130.358	-42.896	1.00	55.35	HS8
ATOM	41427	N	PRO	H	57	131.577	129.015	-42.723	1.00	38.56	HS8
ATOM	41428	CD	PRO	H	57	130.734	127.977	-43.335	1.00	25.53	HS8
ATOM	41429	CA	PRO	H	57	131.129	129.297	-41.354	1.00	38.56	HS8
ATOM	41430	CB	PRO	H	57	129.830	128.517	-41.262	1.00	25.53	HS8
ATOM	41431	CG	PRO	H	57	130.135	127.323	-42.128	1.00	25.53	HS8
ATOM	41432	C	PRO	H	57	132.066	128.950	-40.209	1.00	38.56	HS8
ATOM	41433	O	PRO	H	57	132.564	127.826	-40.116	1.00	38.56	HS8
ATOM	41434	N	TYR	H	58	132.274	129.931	-39.333	1.00	38.81	HS8
ATOM	41435	CA	TYR	H	58	133.113	129.779	-38.150	1.00	38.81	HS8
ATOM	41436	CB	TYR	H	58	134.435	130.519	-38.319	1.00	57.87	HS8
ATOM	41437	CG	TYR	H	58	135.372	129.788	-39.221	1.00	57.87	HS8
ATOM	41438	CD1	TYR	H	58	135.219	129.854	-40.605	1.00	57.87	HS8
ATOM	41439	CE1	TYR	H	58	135.987	129.070	-41.448	1.00	57.87	HS8
ATOM	41440	CD2	TYR	H	58	136.330	128.924	-38.697	1.00	57.87	HS8
ATOM	41441	CE2	TYR	H	58	137.098	128.132	-39.527	1.00	57.87	HS8
ATOM	41442	CZ	TYR	H	58	136.920	128.205	-40.904	1.00	57.87	HS8
ATOM	41443	OH	TYR	H	58	137.641	127.383	-41.733	1.00	57.87	HS8
ATOM	41444	C	TYR	H	58	132.400	130.327	-36.933	1.00	38.81	HS8
ATOM	41445	O	TYR	H	58	131.223	130.662	-36.995	1.00	38.81	HS8
ATOM	41446	N	LEU	H	59	133.112	130.410	-35.821	1.00	40.25	HS8
ATOM	41447	CA	LEU	H	59	132.532	130.955	-34.606	1.00	40.25	HS8
ATOM	41448	CB	LEU	H	59	132.114	129.836	-33.645	1.00	40.13	HS8
ATOM	41449	CG	LEU	H	59	130.916	128.971	-34.023	1.00	40.13	HS8
ATOM	41450	CD1	LEU	H	59	130.621	127.987	-32.918	1.00	40.13	HS8
ATOM	41451	CD2	LEU	H	59	129.718	129.856	-34.241	1.00	40.13	HS8
ATOM	41452	C	LEU	H	59	133.591	131.794	-33.937	1.00	40.25	HS8
ATOM	41453	O	LEU	H	59	134.511	131.241	-33.335	1.00	40.25	HS8
ATOM	41454	N	ARG	H	60	133.509	133.115	-34.045	1.00	39.33	HS8
ATOM	41455	CA	ARG	H	60	134.522	133.913	-33.365	1.00	39.33	HS8
ATOM	41456	CB	ARG	H	60	134.413	135.389	-33.710	1.00	65.32	HS8
ATOM	41457	CG	ARG	H	60	134.957	135.711	-35.044	1.00	65.32	HS8
ATOM	41458	CD	ARG	H	60	136.114	136.663	-34.950	1.00	65.32	HS8
ATOM	41459	NE	ARG	H	60	136.603	136.936	-36.293	1.00	65.32	HS8
ATOM	41460	CZ	ARG	H	60	135.827	137.378	-37.280	1.00	65.32	HS8
ATOM	41461	NH1	ARG	H	60	134.539	137.598	-37.051	1.00	65.32	HS8
ATOM	41462	NH2	ARG	H	60	136.322	137.577	-38.499	1.00	65.32	HS8
ATOM	41463	C	ARG	H	60	134.263	133.744	-31.886	1.00	39.33	HS8
ATOM	41464	O	ARG	H	60	133.130	133.878	-31.442	1.00	39.33	HS8
ATOM	41465	N	VAL	H	61	135.292	133.419	-31.124	1.00	36.33	HS8
ATOM	41466	CA	VAL	H	61	135.103	133.279	-29.702	1.00	36.33	HS8
ATOM	41467	CB	VAL	H	61	135.597	131.918	-29.208	1.00	19.20	HS8
ATOM	41468	CG1	VAL	H	61	135.556	131.866	-27.666	1.00	19.20	HS8
ATOM	41469	CG2	VAL	H	61	134.716	130.828	-29.793	1.00	19.20	HS8
ATOM	41470	C	VAL	H	61	135.877	134.397	-29.042	1.00	36.33	HS8
ATOM	41471	O	VAL	H	61	137.093	134.515	-29.219	1.00	36.33	HS8
ATOM	41472	N	TYR	H	62	135.171	135.239	-28.298	1.00	35.31	HS8
ATOM	41473	CA	TYR	H	62	135.820	136.360	-27.627	1.00	35.31	HS8
ATOM	41474	CB	TYR	H	62	134.825	137.500	-27.523	1.00	45.24	HS8
ATOM	41475	CG	TYR	H	62	134.477	138.031	-28.883	1.00	45.24	HS8
ATOM	41476	CD1	TYR	H	62	135.276	138.995	-29.490	1.00	45.24	HS8
ATOM	41477	CE1	TYR	H	62	135.022	139.434	-30.771	1.00	45.24	HS8
ATOM	41478	CD2	TYR	H	62	133.402	137.517	-29.597	1.00	45.24	HS8
ATOM	41479	CE2	TYR	H	62	133.136	137.950	-30.888	1.00	45.24	HS8
ATOM	41480	CZ	TYR	H	62	133.955	138.909	-31.470	1.00	45.24	HS8
ATOM	41481	OH	TYR	H	62	133.733	139.331	-32.760	1.00	45.24	HS8
ATOM	41482	C	TYR	H	62	136.339	135.959	-26.260	1.00	35.31	HS8
ATOM	41483	O	TYR	H	62	135.566	135.806	-25.323	1.00	35.31	HS8
ATOM	41484	N	LEU	H	63	137.651	135.790	-26.148	1.00	35.91	HS8
ATOM	41485	CA	LEU	H	63	138.233	135.363	-24.879	1.00	35.91	HS8
ATOM	41486	CB	LEU	H	63	139.679	134.883	-25.072	1.00	40.24	HS8
ATOM	41487	CG	LEU	H	63	139.939	133.846	-26.177	1.00	40.24	HS8
ATOM	41488	CD1	LEU	H	63	138.841	132.804	-26.201	1.00	40.24	HS8



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ATOM	41489	CD2	LEU	H	63	139.999	134.562	-27.515	1.00	40.24	HS8
ATOM	41490	C	LEU	H	63	138.165	136.436	-23.803	1.00	35.91	HS8
ATOM	41491	O	LEU	H	63	138.005	137.626	-24.091	1.00	35.91	HS8
ATOM	41492	N	LYS	H	64	138.314	135.993	-22.561	1.00	41.86	HS8
ATOM	41493	CA	LYS	H	64	138.190	136.861	-21.398	1.00	41.86	HS8
ATOM	41494	CB	LYS	H	64	136.800	136.590	-20.800	1.00	56.86	HS8
ATOM	41495	CG	LYS	H	64	136.465	137.195	-19.461	1.00	56.86	HS8
ATOM	41496	CD	LYS	H	64	135.063	136.740	-19.057	1.00	56.86	HS8
ATOM	41497	CE	LYS	H	64	134.724	137.171	-17.645	1.00	56.86	HS8
ATOM	41498	NZ	LYS	H	64	133.388	136.663	-17.240	1.00	56.86	HS8
ATOM	41499	C	LYS	H	64	139.313	136.600	-20.386	1.00	41.86	HS8
ATOM	41500	O	LYS	H	64	139.560	135.455	-20.001	1.00	41.86	HS8
ATOM	41501	N	TYR	H	65	139.983	137.666	-19.955	1.00	42.35	HS8
ATOM	41502	CA	TYR	H	65	141.098	137.539	-19.027	1.00	42.35	HS8
ATOM	41503	CB	TYR	H	65	142.392	137.967	-19.700	1.00	36.64	HS8
ATOM	41504	CG	TYR	H	65	142.563	137.371	-21.052	1.00	36.64	HS8
ATOM	41505	CD1	TYR	H	65	141.840	137.852	-22.138	1.00	36.64	HS8
ATOM	41506	CE1	TYR	H	65	141.975	137.289	-23.406	1.00	36.64	HS8
ATOM	41507	CD2	TYR	H	65	143.426	136.309	-21.255	1.00	36.64	HS8
ATOM	41508	CE2	TYR	H	65	143.575	135.735	-22.517	1.00	36.64	HS8
ATOM	41509	CZ	TYR	H	65	142.847	136.234	-23.588	1.00	36.64	HS8
ATOM	41510	OH	TYR	H	65	143.016	135.693	-24.840	1.00	36.64	HS8
ATOM	41511	C	TYR	H	65	140.935	138.390	-17.804	1.00	42.35	HS8
ATOM	41512	O	TYR	H	65	140.136	139.315	-17.795	1.00	42.35	HS8
ATOM	41513	N	GLY	H	66	141.728	138.084	-16.782	1.00	54.53	HS8
ATOM	41514	CA	GLY	H	66	141.704	138.857	-15.557	1.00	54.53	HS8
ATOM	41515	C	GLY	H	66	142.375	140.192	-15.826	1.00	54.53	HS8
ATOM	41516	O	GLY	H	66	142.563	140.568	-16.983	1.00	54.53	HS8
ATOM	41517	N	PRO	H	67	142.758	140.941	-14.791	1.00	62.06	HS8
ATOM	41518	CD	PRO	H	67	142.366	140.884	-13.371	1.00	28.91	HS8
ATOM	41519	CA	PRO	H	67	143.396	142.221	-15.110	1.00	62.06	HS8
ATOM	41520	CB	PRO	H	67	142.962	143.097	-13.949	1.00	28.91	HS8
ATOM	41521	CG	PRO	H	67	143.026	142.137	-12.807	1.00	28.91	HS8
ATOM	41522	C	PRO	H	67	144.913	142.134	-15.223	1.00	62.06	HS8
ATOM	41523	O	PRO	H	67	145.505	141.089	-14.930	1.00	62.06	HS8
ATOM	41524	N	ARG	H	68	145.527	143.235	-15.659	1.00	44.25	HS8
ATOM	41525	CA	ARG	H	68	146.981	143.326	-15.769	1.00	44.25	HS8
ATOM	41526	CB	ARG	H	68	147.370	144.707	-16.270	1.00	55.63	HS8
ATOM	41527	CG	ARG	H	68	148.859	144.964	-16.338	1.00	55.63	HS8
ATOM	41528	CD	ARG	H	68	149.093	146.201	-17.189	1.00	55.63	HS8
ATOM	41529	NE	ARG	H	68	150.482	146.442	-17.574	1.00	55.63	HS8
ATOM	41530	CZ	ARG	H	68	151.485	146.594	-16.718	1.00	55.63	HS8
ATOM	41531	NH1	ARG	H	68	151.266	146.514	-15.410	1.00	55.63	HS8
ATOM	41532	NH2	ARG	H	68	152.698	146.875	-17.172	1.00	55.63	HS8
ATOM	41533	C	ARG	H	68	147.520	143.115	-14.352	1.00	44.25	HS8
ATOM	41534	O	ARG	H	68	146.774	143.287	-13.392	1.00	44.25	HS8
ATOM	41535	N	ARG	H	69	148.791	142.750	-14.197	1.00	52.32	HS8
ATOM	41536	CA	ARG	H	69	149.316	142.515	-12.854	1.00	52.32	HS8
ATOM	41537	CB	ARG	H	69	149.548	141.025	-12.654	1.00	96.05	HS8
ATOM	41538	CG	ARG	H	69	148.275	140.211	-12.793	1.00	96.05	HS8
ATOM	41539	CD	ARG	H	69	148.559	138.769	-12.500	1.00	96.05	HS8
ATOM	41540	NE	ARG	H	69	149.736	138.340	-13.240	1.00	96.05	HS8
ATOM	41541	CZ	ARG	H	69	150.432	137.249	-12.958	1.00	96.05	HS8
ATOM	41542	NH1	ARG	H	69	150.063	136.477	-11.948	1.00	96.05	HS8
ATOM	41543	NH2	ARG	H	69	151.501	136.937	-13.677	1.00	96.05	HS8
ATOM	41544	C	ARG	H	69	150.560	143.298	-12.437	1.00	52.32	HS8
ATOM	41545	O	ARG	H	69	151.034	144.183	-13.155	1.00	52.32	HS8
ATOM	41546	N	GLN	H	70	151.076	142.965	-11.256	1.00	76.68	HS8
ATOM	41547	CA	GLN	H	70	152.234	143.643	-10.679	1.00	76.68	HS8
ATOM	41548	CB	GLN	H	70	152.006	143.871	-9.184	1.00	99.50	HS8
ATOM	41549	CG	GLN	H	70	150.796	144.708	-8.828	1.00	99.50	HS8
ATOM	41550	CD	GLN	H	70	150.851	146.097	-9.425	1.00	99.50	HS8
ATOM	41551	OE1	GLN	H	70	151.908	146.731	-9.460	1.00	99.50	HS8
ATOM	41552	NE2	GLN	H	70	149.705	146.587	-9.885	1.00	99.50	HS8
ATOM	41553	C	GLN	H	70	153.563	142.919	-10.847	1.00	76.68	HS8
ATOM	41554	O	GLN	H	70	153.609	141.715	-11.120	1.00	76.68	HS8
ATOM	41555	N	GLY	H	71	154.640	143.679	-10.654	1.00	81.52	HS8
ATOM	41556	CA	GLY	H	71	155.991	143.149	-10.755	1.00	81.52	HS8
ATOM	41557	C	GLY	H	71	156.355	142.575	-12.106	1.00	81.52	HS8
ATOM	41558	O	GLY	H	71	155.868	143.030	-13.139	1.00	81.52	HS8
ATOM	41559	N	PRO	H	72	157.239	141.575	-12.131	1.00	58.88	HS8
ATOM	41560	CD	PRO	H	72	157.957	140.967	-10.998	1.00	32.76	HS8
ATOM	41561	CA	PRO	H	72	157.631	140.968	-13.409	1.00	58.88	HS8
ATOM	41562	CB	PRO	H	72	158.757	140.020	-13.014	1.00	32.76	HS8
ATOM	41563	CG	PRO	H	72	158.412	139.656	-11.586	1.00	32.76	HS8
ATOM	41564	C	PRO	H	72	156.433	140.240	-13.987	1.00	58.88	HS8
ATOM	41565	O	PRO	H	72	155.522	139.855	-13.252	1.00	58.88	HS8



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ATOM	41566	N	ASP	H	73	156.430	140.048	-15.297	1.00	62.57	HS8
ATOM	41567	CA	ASP	H	73	155.314	139.376	-15.961	1.00	62.57	HS8
ATOM	41568	CB	ASP	H	73	155.357	137.860	-15.737	1.00	83.21	HS8
ATOM	41569	CG	ASP	H	73	154.197	137.134	-16.425	1.00	83.21	HS8
ATOM	41570	OD1	ASP	H	73	154.088	135.896	-16.278	1.00	83.21	HS8
ATOM	41571	OD2	ASP	H	73	153.395	137.800	-17.117	1.00	83.21	HS8
ATOM	41572	C	ASP	H	73	153.948	139.891	-15.505	1.00	62.57	HS8
ATOM	41573	O	ASP	H	73	153.306	139.300	-14.630	1.00	62.57	HS8
ATOM	41574	N	PRO	H	74	153.490	141.003	-16.098	1.00	47.27	HS8
ATOM	41575	CD	PRO	H	74	154.216	141.858	-17.053	1.00	42.00	HS8
ATOM	41576	CA	PRO	H	74	152.202	141.603	-15.768	1.00	47.27	HS8
ATOM	41577	CB	PRO	H	74	152.357	143.022	-16.285	1.00	42.00	HS8
ATOM	41578	CG	PRO	H	74	153.126	142.795	-17.540	1.00	42.00	HS8
ATOM	41579	C	PRO	H	74	151.051	140.872	-16.457	1.00	47.27	HS8
ATOM	41580	O	PRO	H	74	149.890	141.232	-16.266	1.00	47.27	HS8
ATOM	41581	N	ARG	H	75	151.365	139.856	-17.263	1.00	51.68	HS8
ATOM	41582	CA	ARG	H	75	150.314	139.117	-17.958	1.00	51.68	HS8
ATOM	41583	CB	ARG	H	75	150.864	137.871	-18.635	1.00	47.41	HS8
ATOM	41584	CG	ARG	H	75	151.634	138.174	-19.889	1.00	47.41	HS8
ATOM	41585	CD	ARG	H	75	152.202	136.908	-20.475	1.00	47.41	HS8
ATOM	41586	NE	ARG	H	75	153.134	136.279	-19.551	1.00	47.41	HS8
ATOM	41587	CZ	ARG	H	75	153.563	135.030	-19.677	1.00	47.41	HS8
ATOM	41588	NH1	ARG	H	75	153.139	134.287	-20.691	1.00	47.41	HS8
ATOM	41589	NH2	ARG	H	75	154.404	134.519	-18.789	1.00	47.41	HS8
ATOM	41590	C	ARG	H	75	149.168	138.734	-17.036	1.00	51.68	HS8
ATOM	41591	O	ARG	H	75	149.354	138.147	-15.969	1.00	51.68	HS8
ATOM	41592	N	PRO	H	76	147.951	139.063	-17.460	1.00	39.90	HS8
ATOM	41593	CD	PRO	H	76	147.724	139.450	-18.861	1.00	43.15	HS8
ATOM	41594	CA	PRO	H	76	146.682	138.825	-16.775	1.00	39.90	HS8
ATOM	41595	CB	PRO	H	76	145.645	139.140	-17.848	1.00	43.15	HS8
ATOM	41596	CG	PRO	H	76	146.367	140.050	-18.793	1.00	43.15	HS8
ATOM	41597	C	PRO	H	76	146.542	137.394	-16.310	1.00	39.90	HS8
ATOM	41598	O	PRO	H	76	147.177	136.497	-16.869	1.00	39.90	HS8
ATOM	41599	N	GLU	H	77	145.706	137.186	-15.294	1.00	37.31	HS8
ATOM	41600	CA	GLU	H	77	145.442	135.834	-14.808	1.00	37.31	HS8
ATOM	41601	CB	GLU	H	77	144.826	135.866	-13.400	1.00	86.13	HS8
ATOM	41602	CG	GLU	H	77	144.682	134.484	-12.752	1.00	86.13	HS8
ATOM	41603	CD	GLU	H	77	143.984	134.518	-11.392	1.00	86.13	HS8
ATOM	41604	OE1	GLU	H	77	144.384	135.329	-10.524	1.00	86.13	HS8
ATOM	41605	OE2	GLU	H	77	143.040	133.719	-11.186	1.00	86.13	HS8
ATOM	41606	C	GLU	H	77	144.440	135.248	-15.813	1.00	37.31	HS8
ATOM	41607	O	GLU	H	77	143.609	135.971	-16.359	1.00	37.31	HS8
ATOM	41608	N	GLN	H	78	144.527	133.956	-16.091	1.00	42.99	HS8
ATOM	41609	CA	GLN	H	78	143.591	133.366	-17.036	1.00	42.99	HS8
ATOM	41610	CB	GLN	H	78	144.046	131.977	-17.461	1.00	47.95	HS8
ATOM	41611	CG	GLN	H	78	145.249	131.950	-18.351	1.00	47.95	HS8
ATOM	41612	CD	GLN	H	78	145.008	132.652	-19.666	1.00	47.95	HS8
ATOM	41613	OE1	GLN	H	78	143.927	132.546	-20.254	1.00	47.95	HS8
ATOM	41614	NE2	GLN	H	78	146.029	133.363	-20.150	1.00	47.95	HS8
ATOM	41615	C	GLN	H	78	142.261	133.216	-16.342	1.00	42.99	HS8
ATOM	41616	O	GLN	H	78	142.219	133.034	-15.128	1.00	42.99	HS8
ATOM	41617	N	VAL	H	79	141.174	133.311	-17.098	1.00	57.54	HS8
ATOM	41618	CA	VAL	H	79	139.858	133.098	-16.515	1.00	57.54	HS8
ATOM	41619	CB	VAL	H	79	138.762	133.881	-17.245	1.00	45.00	HS8
ATOM	41620	CG1	VAL	H	79	137.515	133.027	-17.412	1.00	45.00	HS8
ATOM	41621	CG2	VAL	H	79	138.419	135.118	-16.445	1.00	45.00	HS8
ATOM	41622	C	VAL	H	79	139.656	131.606	-16.704	1.00	57.54	HS8
ATOM	41623	O	VAL	H	79	139.029	130.940	-15.875	1.00	57.54	HS8
ATOM	41624	N	ILE	H	80	140.208	131.095	-17.808	1.00	36.05	HS8
ATOM	41625	CA	ILE	H	80	140.169	129.666	-18.131	1.00	36.05	HS8
ATOM	41626	CB	ILE	H	80	139.999	129.399	-19.634	1.00	13.61	HS8
ATOM	41627	CG2	ILE	H	80	140.211	127.917	-19.911	1.00	13.61	HS8
ATOM	41628	CG1	ILE	H	80	138.605	129.826	-20.092	1.00	13.61	HS8
ATOM	41629	CD1	ILE	H	80	138.307	129.497	-21.568	1.00	13.61	HS8
ATOM	41630	C	ILE	H	80	141.518	129.087	-17.738	1.00	36.05	HS8
ATOM	41631	O	ILE	H	80	142.398	128.917	-18.583	1.00	36.05	HS8
ATOM	41632	N	HIS	H	81	141.703	128.796	-16.462	1.00	52.65	HS8
ATOM	41633	CA	HIS	H	81	142.986	128.267	-16.069	1.00	52.65	HS8
ATOM	41634	CB	HIS	H	81	143.079	128.136	-14.557	1.00	58.73	HS8
ATOM	41635	CG	HIS	H	81	142.593	129.337	-13.832	1.00	58.73	HS8
ATOM	41636	CD2	HIS	H	81	143.257	130.297	-13.148	1.00	58.73	HS8
ATOM	41637	ND1	HIS	H	81	141.265	129.701	-13.819	1.00	58.73	HS8
ATOM	41638	CE1	HIS	H	81	141.132	130.839	-13.159	1.00	58.73	HS8
ATOM	41639	NE2	HIS	H	81	142.326	131.223	-12.742	1.00	58.73	HS8
ATOM	41640	C	HIS	H	81	143.155	126.900	-16.684	1.00	52.65	HS8
ATOM	41641	O	HIS	H	81	144.280	126.463	-16.954	1.00	52.65	HS8
ATOM	41642	N	HIS	H	82	142.033	126.241	-16.952	1.00	39.44	HS8



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ATOM	41643	CA	HIS	H	82	142.099	124.880	-17.443	1.00	39.44	HS8
ATOM	41644	CB	HIS	H	82	142.318	123.990	-16.213	1.00	47.27	HS8
ATOM	41645	CG	HIS	H	82	142.070	122.533	-16.428	1.00	47.27	HS8
ATOM	41646	CD2	HIS	H	82	140.987	121.865	-16.890	1.00	47.27	HS8
ATOM	41647	ND1	HIS	H	82	142.973	121.569	-16.033	1.00	47.27	HS8
ATOM	41648	CE1	HIS	H	82	142.458	120.372	-16.241	1.00	47.27	HS8
ATOM	41649	NE2	HIS	H	82	141.252	120.522	-16.759	1.00	47.27	HS8
ATOM	41650	C	HIS	H	82	140.863	124.485	-18.218	1.00	39.44	HS8
ATOM	41651	O	HIS	H	82	139.748	124.882	-17.882	1.00	39.44	HS8
ATOM	41652	N	ILE	H	83	141.074	123.706	-19.269	1.00	33.15	HS8
ATOM	41653	CA	ILE	H	83	139.988	123.224	-20.113	1.00	33.15	HS8
ATOM	41654	CB	ILE	H	83	139.610	124.283	-21.171	1.00	26.72	HS8
ATOM	41655	CG2	ILE	H	83	140.834	124.828	-21.825	1.00	26.72	HS8
ATOM	41656	CG1	ILE	H	83	138.700	123.672	-22.226	1.00	26.72	HS8
ATOM	41657	CD1	ILE	H	83	138.021	124.726	-23.088	1.00	26.72	HS8
ATOM	41658	C	ILE	H	83	140.525	121.951	-20.753	1.00	33.15	HS8
ATOM	41659	O	ILE	H	83	141.594	121.981	-21.363	1.00	33.15	HS8
ATOM	41660	N	ARG	H	84	139.803	120.836	-20.596	1.00	41.17	HS8
ATOM	41661	CA	ARG	H	84	140.269	119.549	-21.119	1.00	41.17	HS8
ATOM	41662	CB	ARG	H	84	141.185	118.917	-20.075	1.00	79.52	HS8
ATOM	41663	CG	ARG	H	84	142.003	117.758	-20.589	1.00	79.52	HS8
ATOM	41664	CD	ARG	H	84	141.527	116.452	-20.006	1.00	79.52	HS8
ATOM	41665	NE	ARG	H	84	141.384	116.540	-18.561	1.00	79.52	HS8
ATOM	41666	CZ	ARG	H	84	141.807	115.605	-17.722	1.00	79.52	HS8
ATOM	41667	NH1	ARG	H	84	142.400	114.512	-18.189	1.00	79.52	HS8
ATOM	41668	NH2	ARG	H	84	141.639	115.771	-16.419	1.00	79.52	HS8
ATOM	41669	C	ARG	H	84	139.209	118.517	-21.542	1.00	41.17	HS8
ATOM	41670	O	ARG	H	84	138.226	118.319	-20.844	1.00	41.17	HS8
ATOM	41671	N	ARG	H	85	139.411	117.851	-22.679	1.00	44.92	HS8
ATOM	41672	CA	ARG	H	85	138.457	116.835	-23.117	1.00	44.92	HS8
ATOM	41673	CB	ARG	H	85	138.775	116.306	-24.508	1.00	41.30	HS8
ATOM	41674	CG	ARG	H	85	138.156	117.090	-25.621	1.00	41.30	HS8
ATOM	41675	CD	ARG	H	85	137.341	116.197	-26.549	1.00	41.30	HS8
ATOM	41676	NE	ARG	H	85	136.028	115.884	-26.003	1.00	41.30	HS8
ATOM	41677	CZ	ARG	H	85	135.038	115.357	-26.716	1.00	41.30	HS8
ATOM	41678	NH1	ARG	H	85	135.228	115.092	-28.006	1.00	41.30	HS8
ATOM	41679	NH2	ARG	H	85	133.861	115.092	-26.142	1.00	41.30	HS8
ATOM	41680	C	ARG	H	85	138.523	115.653	-22.189	1.00	44.92	HS8
ATOM	41681	O	ARG	H	85	139.565	115.374	-21.606	1.00	44.92	HS8
ATOM	41682	N	ILE	H	86	137.413	114.944	-22.058	1.00	45.04	HS8
ATOM	41683	CA	ILE	H	86	137.391	113.758	-21.226	1.00	45.04	HS8
ATOM	41684	CB	ILE	H	86	136.462	113.935	-20.029	1.00	46.86	HS8
ATOM	41685	CG2	ILE	H	86	136.333	112.635	-19.269	1.00	46.86	HS8
ATOM	41686	CG1	ILE	H	86	137.040	115.015	-19.117	1.00	46.86	HS8
ATOM	41687	CD1	ILE	H	86	136.212	115.303	-17.893	1.00	46.86	HS8
ATOM	41688	C	ILE	H	86	136.921	112.665	-22.155	1.00	45.04	HS8
ATOM	41689	O	ILE	H	86	137.677	111.746	-22.468	1.00	45.04	HS8
ATOM	41690	N	SER	H	87	135.688	112.750	-22.624	1.00	34.45	HS8
ATOM	41691	CA	SER	H	87	135.264	111.742	-23.568	1.00	34.45	HS8
ATOM	41692	CB	SER	H	87	133.773	111.876	-23.885	1.00	40.02	HS8
ATOM	41693	OG	SER	H	87	133.355	110.911	-24.850	1.00	40.02	HS8
ATOM	41694	C	SER	H	87	136.093	112.055	-24.819	1.00	34.45	HS8
ATOM	41695	O	SER	H	87	136.377	113.224	-25.096	1.00	34.45	HS8
ATOM	41696	N	LYS	H	88	136.532	111.023	-25.535	1.00	28.68	HS8
ATOM	41697	CA	LYS	H	88	137.280	111.205	-26.781	1.00	28.68	HS8
ATOM	41698	CB	LYS	H	88	138.784	111.203	-26.580	1.00	35.28	HS8
ATOM	41699	CG	LYS	H	88	139.292	111.925	-25.380	1.00	35.28	HS8
ATOM	41700	CD	LYS	H	88	140.808	111.790	-25.362	1.00	35.28	HS8
ATOM	41701	CE	LYS	H	88	141.444	112.541	-24.189	1.00	35.28	HS8
ATOM	41702	NZ	LYS	H	88	142.954	112.440	-24.165	1.00	35.28	HS8
ATOM	41703	C	LYS	H	88	136.957	109.952	-27.543	1.00	28.68	HS8
ATOM	41704	O	LYS	H	88	136.603	108.928	-26.933	1.00	28.68	HS8
ATOM	41705	N	PRO	H	89	137.055	109.996	-28.882	1.00	27.38	HS8
ATOM	41706	CD	PRO	H	89	137.344	111.175	-29.709	1.00	15.20	HS8
ATOM	41707	CA	PRO	H	89	136.765	108.802	-29.707	1.00	27.38	HS8
ATOM	41708	CB	PRO	H	89	137.020	109.286	-31.136	1.00	15.20	HS8
ATOM	41709	CG	PRO	H	89	137.939	110.542	-30.933	1.00	15.20	HS8
ATOM	41710	C	PRO	H	89	137.679	107.638	-29.292	1.00	27.38	HS8
ATOM	41711	O	PRO	H	89	138.785	107.852	-28.785	1.00	27.38	HS8
ATOM	41712	N	GLY	H	90	137.226	106.407	-29.484	1.00	66.81	HS8
ATOM	41713	CA	GLY	H	90	138.057	105.291	-29.064	1.00	66.81	HS8
ATOM	41714	C	GLY	H	90	138.417	105.426	-27.586	1.00	66.81	HS8
ATOM	41715	O	GLY	H	90	139.522	105.084	-27.158	1.00	66.81	HS8
ATOM	41716	N	ARG	H	91	137.466	105.954	-26.819	1.00	48.61	HS8
ATOM	41717	CA	ARG	H	91	137.581	106.145	-25.379	1.00	48.61	HS8
ATOM	41718	CB	ARG	H	91	138.958	106.652	-25.000	1.00	51.16	HS8
ATOM	41719	CG	ARG	H	91	139.546	105.906	-23.815	1.00	51.16	HS8



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ATOM	41720	CD	ARG	H	91	138.551	105.712	-22.665	1.00	51.16	HS8
ATOM	41721	NE	ARG	H	91	139.257	105.490	-21.401	1.00	51.16	HS8
ATOM	41722	CZ	ARG	H	91	138.657	105.166	-20.266	1.00	51.16	HS8
ATOM	41723	NH1	ARG	H	91	137.337	105.024	-20.246	1.00	51.16	HS8
ATOM	41724	NH2	ARG	H	91	139.366	104.988	-19.163	1.00	51.16	HS8
ATOM	41725	C	ARG	H	91	136.514	107.129	-24.897	1.00	48.61	HS8
ATOM	41726	O	ARG	H	91	136.802	108.197	-24.342	1.00	48.61	HS8
ATOM	41727	N	ARG	H	92	135.271	106.739	-25.145	1.00	48.08	HS8
ATOM	41728	CA	ARG	H	92	134.092	107.489	-24.770	1.00	48.08	HS8
ATOM	41729	CB	ARG	H	92	132.903	106.895	-25.502	1.00	46.59	HS8
ATOM	41730	CG	ARG	H	92	132.257	107.851	-26.455	1.00	46.59	HS8
ATOM	41731	CD	ARG	H	92	133.171	108.206	-27.581	1.00	46.59	HS8
ATOM	41732	NE	ARG	H	92	132.820	109.518	-28.096	1.00	46.59	HS8
ATOM	41733	CZ	ARG	H	92	133.033	109.895	-29.346	1.00	46.59	HS8
ATOM	41734	NH1	ARG	H	92	133.593	109.046	-30.199	1.00	46.59	HS8
ATOM	41735	NH2	ARG	H	92	132.697	111.117	-29.735	1.00	46.59	HS8
ATOM	41736	C	ARG	H	92	133.844	107.424	-23.263	1.00	48.08	HS8
ATOM	41737	O	ARG	H	92	134.133	106.417	-22.613	1.00	48.08	HS8
ATOM	41738	N	VAL	H	93	133.296	108.488	-22.696	1.00	50.82	HS8
ATOM	41739	CA	VAL	H	93	133.037	108.473	-21.270	1.00	50.82	HS8
ATOM	41740	CB	VAL	H	93	133.984	109.371	-20.524	1.00	21.41	HS8
ATOM	41741	CG1	VAL	H	93	133.446	109.609	-19.133	1.00	21.41	HS8
ATOM	41742	CG2	VAL	H	93	135.333	108.723	-20.441	1.00	21.41	HS8
ATOM	41743	C	VAL	H	93	131.640	108.896	-20.896	1.00	50.82	HS8
ATOM	41744	O	VAL	H	93	131.302	110.076	-20.969	1.00	50.82	HS8
ATOM	41745	N	TYR	H	94	130.844	107.929	-20.455	1.00	45.02	HS8
ATOM	41746	CA	TYR	H	94	129.468	108.186	-20.058	1.00	45.02	HS8
ATOM	41747	CB	TYR	H	94	128.556	107.201	-20.766	1.00	37.03	HS8
ATOM	41748	CG	TYR	H	94	128.770	107.169	-22.258	1.00	37.03	HS8
ATOM	41749	CD1	TYR	H	94	129.363	106.071	-22.881	1.00	37.03	HS8
ATOM	41750	CE1	TYR	H	94	129.504	106.014	-24.276	1.00	37.03	HS8
ATOM	41751	CD2	TYR	H	94	128.334	108.221	-23.055	1.00	37.03	HS8
ATOM	41752	CE2	TYR	H	94	128.470	108.181	-24.444	1.00	37.03	HS8
ATOM	41753	CZ	TYR	H	94	129.050	107.075	-25.053	1.00	37.03	HS8
ATOM	41754	OH	TYR	H	94	129.133	107.047	-26.434	1.00	37.03	HS8
ATOM	41755	C	TYR	H	94	129.312	108.041	-18.552	1.00	45.02	HS8
ATOM	41756	O	TYR	H	94	130.005	107.241	-17.925	1.00	45.02	HS8
ATOM	41757	N	VAL	H	95	128.410	108.818	-17.963	1.00	30.86	HS8
ATOM	41758	CA	VAL	H	95	128.205	108.722	-16.526	1.00	30.86	HS8
ATOM	41759	CB	VAL	H	95	129.075	109.718	-15.761	1.00	12.91	HS8
ATOM	41760	CG1	VAL	H	95	130.519	109.461	-16.071	1.00	12.91	HS8
ATOM	41761	CG2	VAL	H	95	128.712	111.125	-16.152	1.00	12.91	HS8
ATOM	41762	C	VAL	H	95	126.774	108.935	-16.086	1.00	30.86	HS8
ATOM	41763	O	VAL	H	95	126.068	109.802	-16.613	1.00	30.86	HS8
ATOM	41764	N	GLY	H	96	126.363	108.117	-15.114	1.00	53.19	HS8
ATOM	41765	CA	GLY	H	96	125.032	108.207	-14.536	1.00	53.19	HS8
ATOM	41766	C	GLY	H	96	124.993	109.431	-13.644	1.00	53.19	HS8
ATOM	41767	O	GLY	H	96	126.013	109.858	-13.113	1.00	53.19	HS8
ATOM	41768	N	VAL	H	97	123.816	110.004	-13.473	1.00	56.82	HS8
ATOM	41769	CA	VAL	H	97	123.701	111.208	-12.673	1.00	56.82	HS8
ATOM	41770	CB	VAL	H	97	122.221	111.613	-12.537	1.00	49.99	HS8
ATOM	41771	CG1	VAL	H	97	121.459	110.512	-11.851	1.00	49.99	HS8
ATOM	41772	CG2	VAL	H	97	122.097	112.939	-11.811	1.00	49.99	HS8
ATOM	41773	C	VAL	H	97	124.350	111.058	-11.304	1.00	56.82	HS8
ATOM	41774	O	VAL	H	97	124.760	112.041	-10.696	1.00	56.82	HS8
ATOM	41775	N	LYS	H	98	124.466	109.828	-10.825	1.00	52.32	HS8
ATOM	41776	CA	LYS	H	98	125.081	109.595	-9.524	1.00	52.32	HS8
ATOM	41777	CB	LYS	H	98	124.688	108.215	-9.008	1.00	145.27	HS8
ATOM	41778	CG	LYS	H	98	123.268	107.819	-9.351	1.00	145.27	HS8
ATOM	41779	CD	LYS	H	98	123.000	106.370	-8.975	1.00	145.27	HS8
ATOM	41780	CE	LYS	H	98	121.684	105.860	-9.566	1.00	145.27	HS8
ATOM	41781	NZ	LYS	H	98	120.484	106.586	-9.058	1.00	145.27	HS8
ATOM	41782	C	LYS	H	98	126.606	109.670	-9.652	1.00	52.32	HS8
ATOM	41783	O	LYS	H	98	127.314	109.807	-8.658	1.00	52.32	HS8
ATOM	41784	N	GLU	H	99	127.102	109.587	-10.886	1.00	68.65	HS8
ATOM	41785	CA	GLU	H	99	128.542	109.606	-11.164	1.00	68.65	HS8
ATOM	41786	CB	GLU	H	99	128.887	108.485	-12.139	1.00	121.17	HS8
ATOM	41787	CG	GLU	H	99	128.472	107.102	-11.696	1.00	121.17	HS8
ATOM	41788	CD	GLU	H	99	128.649	106.083	-12.806	1.00	121.17	HS8
ATOM	41789	OE1	GLU	H	99	127.934	106.192	-13.828	1.00	121.17	HS8
ATOM	41790	OE2	GLU	H	99	129.504	105.181	-12.664	1.00	121.17	HS8
ATOM	41791	C	GLU	H	99	129.094	110.910	-11.741	1.00	68.65	HS8
ATOM	41792	O	GLU	H	99	130.258	110.966	-12.141	1.00	68.65	HS8
ATOM	41793	N	ILE	H	100	128.270	111.949	-11.810	1.00	54.14	HS8
ATOM	41794	CA	ILE	H	100	128.738	113.216	-12.354	1.00	54.14	HS8
ATOM	41795	CB	ILE	H	100	127.596	114.203	-12.569	1.00	53.62	HS8
ATOM	41796	CG2	ILE	H	100	128.164	115.552	-12.937	1.00	53.62	HS8



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ATOM	41797	CG1	ILE	H	100	126.680	113.699	-13.682	1.00	53.62	HS8
ATOM	41798	CD1	ILE	H	100	125.411	114.500	-13.835	1.00	53.62	HS8
ATOM	41799	C	ILE	H	100	129.756	113.849	-11.422	1.00	54.14	HS8
ATOM	41800	O	ILE	H	100	129.449	114.227	-10.290	1.00	54.14	HS8
ATOM	41801	N	PRO	H	101	130.992	113.980	-11.899	1.00	58.85	HS8
ATOM	41802	CD	PRO	H	101	131.444	113.646	-13.262	1.00	36.60	HS8
ATOM	41803	CA	PRO	H	101	132.073	114.566	-11.110	1.00	58.85	HS8
ATOM	41804	CB	PRO	H	101	133.279	114.406	-12.031	1.00	36.60	HS8
ATOM	41805	CG	PRO	H	101	132.650	114.520	-13.416	1.00	36.60	HS8
ATOM	41806	C	PRO	H	101	131.838	116.016	-10.691	1.00	58.85	HS8
ATOM	41807	O	PRO	H	101	131.029	116.725	-11.284	1.00	58.85	HS8
ATOM	41808	N	ARG	H	102	132.543	116.429	-9.643	1.00	58.15	HS8
ATOM	41809	CA	ARG	H	102	132.473	117.790	-9.141	1.00	58.15	HS8
ATOM	41810	CB	ARG	H	102	132.184	117.805	-7.648	1.00	112.11	HS8
ATOM	41811	CG	ARG	H	102	130.732	117.948	-7.339	1.00	112.11	HS8
ATOM	41812	CD	ARG	H	102	130.486	117.833	-5.863	1.00	112.11	HS8
ATOM	41813	NE	ARG	H	102	129.057	117.834	-5.581	1.00	112.11	HS8
ATOM	41814	CZ	ARG	H	102	128.488	117.123	-4.614	1.00	112.11	HS8
ATOM	41815	NH1	ARG	H	102	129.234	116.351	-3.832	1.00	112.11	HS8
ATOM	41816	NH2	ARG	H	102	127.175	117.179	-4.432	1.00	112.11	HS8
ATOM	41817	C	ARG	H	102	133.808	118.480	-9.405	1.00	58.15	HS8
ATOM	41818	O	ARG	H	102	134.702	118.500	-8.556	1.00	58.15	HS8
ATOM	41819	N	VAL	H	103	133.937	119.040	-10.599	1.00	31.62	HS8
ATOM	41820	CA	VAL	H	103	135.147	119.747	-11.009	1.00	31.62	HS8
ATOM	41821	CB	VAL	H	103	134.922	120.435	-12.367	1.00	32.33	HS8
ATOM	41822	CG1	VAL	H	103	136.193	121.137	-12.811	1.00	32.33	HS8
ATOM	41823	CG2	VAL	H	103	134.467	119.408	-13.402	1.00	32.33	HS8
ATOM	41824	C	VAL	H	103	135.641	120.822	-10.038	1.00	31.62	HS8
ATOM	41825	O	VAL	H	103	134.905	121.749	-9.706	1.00	31.62	HS8
ATOM	41826	N	ARG	H	104	136.889	120.693	-9.596	1.00	54.73	HS8
ATOM	41827	CA	ARG	H	104	137.501	121.686	-8.714	1.00	54.73	HS8
ATOM	41828	CB	ARG	H	104	137.871	122.929	-9.532	1.00	63.99	HS8
ATOM	41829	CG	ARG	H	104	139.332	123.053	-9.959	1.00	63.99	HS8
ATOM	41830	CD	ARG	H	104	140.096	123.867	-8.934	1.00	63.99	HS8
ATOM	41831	NE	ARG	H	104	141.373	124.403	-9.413	1.00	63.99	HS8
ATOM	41832	CZ	ARG	H	104	142.424	123.667	-9.762	1.00	63.99	HS8
ATOM	41833	NH1	ARG	H	104	142.374	122.339	-9.711	1.00	63.99	HS8
ATOM	41834	NH2	ARG	H	104	143.549	124.269	-10.115	1.00	63.99	HS8
ATOM	41835	C	ARG	H	104	136.618	122.121	-7.555	1.00	54.73	HS8
ATOM	41836	O	ARG	H	104	136.370	123.320	-7.392	1.00	54.73	HS8
ATOM	41837	N	ARG	H	105	136.155	121.168	-6.748	1.00	46.08	HS8
ATOM	41838	CA	ARG	H	105	135.290	121.489	-5.609	1.00	46.08	HS8
ATOM	41839	CB	ARG	H	105	136.121	121.991	-4.425	1.00	68.00	HS8
ATOM	41840	CG	ARG	H	105	136.059	121.111	-3.191	1.00	68.00	HS8
ATOM	41841	CD	ARG	H	105	136.792	119.797	-3.434	1.00	68.00	HS8
ATOM	41842	NE	ARG	H	105	137.301	119.209	-2.192	1.00	68.00	HS8
ATOM	41843	CZ	ARG	H	105	136.551	118.593	-1.283	1.00	68.00	HS8
ATOM	41844	NH1	ARG	H	105	135.241	118.470	-1.473	1.00	68.00	HS8
ATOM	41845	NH2	ARG	H	105	137.112	118.112	-0.181	1.00	68.00	HS8
ATOM	41846	C	ARG	H	105	134.217	122.544	-5.936	1.00	46.08	HS8
ATOM	41847	O	ARG	H	105	133.917	123.415	-5.113	1.00	46.08	HS8
ATOM	41848	N	GLY	H	106	133.650	122.475	-7.137	1.00	45.18	HS8
ATOM	41849	CA	GLY	H	106	132.620	123.427	-7.511	1.00	45.18	HS8
ATOM	41850	C	GLY	H	106	133.103	124.682	-8.211	1.00	45.18	HS8
ATOM	41851	O	GLY	H	106	132.385	125.236	-9.052	1.00	45.18	HS8
ATOM	41852	N	LEU	H	107	134.306	125.145	-7.889	1.00	38.86	HS8
ATOM	41853	CA	LEU	H	107	134.799	126.357	-8.528	1.00	38.86	HS8
ATOM	41854	CB	LEU	H	107	136.148	126.765	-7.949	1.00	37.38	HS8
ATOM	41855	CG	LEU	H	107	136.287	126.722	-6.437	1.00	37.38	HS8
ATOM	41856	CD1	LEU	H	107	137.394	127.670	-6.012	1.00	37.38	HS8
ATOM	41857	CD2	LEU	H	107	134.989	127.131	-5.799	1.00	37.38	HS8
ATOM	41858	C	LEU	H	107	134.930	126.195	-10.042	1.00	38.86	HS8
ATOM	41859	O	LEU	H	107	135.064	127.180	-10.773	1.00	38.86	HS8
ATOM	41860	N	GLY	H	108	134.916	124.953	-10.510	1.00	41.14	HS8
ATOM	41861	CA	GLY	H	108	135.020	124.713	-11.933	1.00	41.14	HS8
ATOM	41862	C	GLY	H	108	133.783	123.975	-12.379	1.00	41.14	HS8
ATOM	41863	O	GLY	H	108	132.905	123.715	-11.570	1.00	41.14	HS8
ATOM	41864	N	ILE	H	109	133.698	123.626	-13.652	1.00	42.85	HS8
ATOM	41865	CA	ILE	H	109	132.526	122.913	-14.128	1.00	42.85	HS8
ATOM	41866	CB	ILE	H	109	131.591	123.835	-14.886	1.00	31.52	HS8
ATOM	41867	CG2	ILE	H	109	131.396	125.102	-14.106	1.00	31.52	HS8
ATOM	41868	CG1	ILE	H	109	132.189	124.164	-16.250	1.00	31.52	HS8
ATOM	41869	CD1	ILE	H	109	131.259	124.931	-17.132	1.00	31.52	HS8
ATOM	41870	C	ILE	H	109	132.874	121.761	-15.050	1.00	42.85	HS8
ATOM	41871	O	ILE	H	109	134.015	121.601	-15.485	1.00	42.85	HS8
ATOM	41872	N	ALA	H	110	131.863	120.966	-15.352	1.00	40.74	HS8
ATOM	41873	CA	ALA	H	110	132.019	119.822	-16.216	1.00	40.74	HS8



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ATOM	41874	CB	ALA	H	110	131.914	118.567	-15.413	1.00	39.94	HS8
ATOM	41875	C	ALA	H	110	130.868	119.920	-17.171	1.00	40.74	HS8
ATOM	41876	O	ALA	H	110	129.751	120.218	-16.763	1.00	40.74	HS8
ATOM	41877	N	ILE	H	111	131.114	119.658	-18.440	1.00	45.42	HS8
ATOM	41878	CA	ILE	H	111	130.039	119.777	-19.401	1.00	45.42	HS8
ATOM	41879	CB	ILE	H	111	130.486	120.673	-20.547	1.00	34.37	HS8
ATOM	41880	CG2	ILE	H	111	129.403	120.750	-21.593	1.00	34.37	HS8
ATOM	41881	CG1	ILE	H	111	130.871	122.051	-19.993	1.00	34.37	HS8
ATOM	41882	CD1	ILE	H	111	131.218	123.077	-21.060	1.00	34.37	HS8
ATOM	41883	C	ILE	H	111	129.557	118.445	-19.951	1.00	45.42	HS8
ATOM	41884	O	ILE	H	111	130.267	117.792	-20.720	1.00	45.42	HS8
ATOM	41885	N	LEU	H	112	128.349	118.045	-19.562	1.00	36.78	HS8
ATOM	41886	CA	LEU	H	112	127.772	116.778	-20.035	1.00	36.78	HS8
ATOM	41887	CB	LEU	H	112	126.831	116.164	-18.984	1.00	23.31	HS8
ATOM	41888	CG	LEU	H	112	127.282	115.753	-17.572	1.00	23.31	HS8
ATOM	41889	CD1	LEU	H	112	128.137	114.509	-17.653	1.00	23.31	HS8
ATOM	41890	CD2	LEU	H	112	128.041	116.890	-16.891	1.00	23.31	HS8
ATOM	41891	C	LEU	H	112	126.955	117.016	-21.305	1.00	36.78	HS8
ATOM	41892	O	LEU	H	112	126.632	118.153	-21.651	1.00	36.78	HS8
ATOM	41893	N	SER	H	113	126.638	115.936	-22.002	1.00	38.10	HS8
ATOM	41894	CA	SER	H	113	125.810	116.010	-23.197	1.00	38.10	HS8
ATOM	41895	CB	SER	H	113	126.594	115.633	-24.458	1.00	28.21	HS8
ATOM	41896	OG	SER	H	113	125.720	115.443	-25.567	1.00	28.21	HS8
ATOM	41897	C	SER	H	113	124.755	114.960	-22.903	1.00	38.10	HS8
ATOM	41898	O	SER	H	113	125.072	113.775	-22.836	1.00	38.10	HS8
ATOM	41899	N	THR	H	114	123.511	115.391	-22.714	1.00	34.35	HS8
ATOM	41900	CA	THR	H	114	122.438	114.470	-22.372	1.00	34.35	HS8
ATOM	41901	CB	THR	H	114	121.928	114.779	-20.969	1.00	33.33	HS8
ATOM	41902	OG1	THR	H	114	121.207	116.017	-20.990	1.00	33.33	HS8
ATOM	41903	CG2	THR	H	114	123.104	114.920	-20.010	1.00	33.33	HS8
ATOM	41904	C	THR	H	114	121.258	114.511	-23.329	1.00	34.35	HS8
ATOM	41905	O	THR	H	114	121.155	115.415	-24.156	1.00	34.35	HS8
ATOM	41906	N	SER	H	115	120.365	113.531	-23.210	1.00	44.97	HS8
ATOM	41907	CA	SER	H	115	119.183	113.470	-24.065	1.00	44.97	HS8
ATOM	41908	CB	SER	H	115	118.365	112.218	-23.776	1.00	50.91	HS8
ATOM	41909	OG	SER	H	115	118.041	112.140	-22.402	1.00	50.91	HS8
ATOM	41910	C	SER	H	115	118.347	114.701	-23.792	1.00	44.97	HS8
ATOM	41911	O	SER	H	115	117.457	115.043	-24.562	1.00	44.97	HS8
ATOM	41912	N	LYS	H	116	118.637	115.351	-22.672	1.00	44.51	HS8
ATOM	41913	CA	LYS	H	116	117.959	116.585	-22.292	1.00	44.51	HS8
ATOM	41914	CB	LYS	H	116	117.749	116.651	-20.778	1.00	68.83	HS8
ATOM	41915	CG	LYS	H	116	116.467	116.019	-20.263	1.00	68.83	HS8
ATOM	41916	CD	LYS	H	116	116.321	116.312	-18.777	1.00	68.83	HS8
ATOM	41917	CE	LYS	H	116	114.897	116.106	-18.300	1.00	68.83	HS8
ATOM	41918	NZ	LYS	H	116	114.724	116.635	-16.915	1.00	68.83	HS8
ATOM	41919	C	LYS	H	116	118.869	117.738	-22.714	1.00	44.51	HS8
ATOM	41920	O	LYS	H	116	118.987	118.738	-22.002	1.00	44.51	HS8
ATOM	41921	N	GLY	H	117	119.524	117.579	-23.865	1.00	55.42	HS8
ATOM	41922	CA	GLY	H	117	120.423	118.609	-24.364	1.00	55.42	HS8
ATOM	41923	C	GLY	H	117	121.769	118.666	-23.658	1.00	55.42	HS8
ATOM	41924	O	GLY	H	117	122.076	117.816	-22.828	1.00	55.42	HS8
ATOM	41925	N	VAL	H	118	122.574	119.668	-23.997	1.00	44.99	HS8
ATOM	41926	CA	VAL	H	118	123.892	119.841	-23.394	1.00	44.99	HS8
ATOM	41927	CB	VAL	H	118	124.879	120.487	-24.382	1.00	51.46	HS8
ATOM	41928	CG1	VAL	H	118	126.191	120.773	-23.669	1.00	51.46	HS8
ATOM	41929	CG2	VAL	H	118	125.081	119.582	-25.610	1.00	51.46	HS8
ATOM	41930	C	VAL	H	118	123.757	120.778	-22.213	1.00	44.99	HS8
ATOM	41931	O	VAL	H	118	123.142	121.825	-22.344	1.00	44.99	HS8
ATOM	41932	N	LEU	H	119	124.336	120.435	-21.070	1.00	31.46	HS8
ATOM	41933	CA	LEU	H	119	124.215	121.304	-19.898	1.00	31.46	HS8
ATOM	41934	CB	LEU	H	119	122.850	121.119	-19.218	1.00	47.67	HS8
ATOM	41935	CG	LEU	H	119	122.447	119.702	-18.783	1.00	47.67	HS8
ATOM	41936	CD1	LEU	H	119	121.189	119.733	-17.936	1.00	47.67	HS8
ATOM	41937	CD2	LEU	H	119	122.194	118.849	-20.007	1.00	47.67	HS8
ATOM	41938	C	LEU	H	119	125.316	121.015	-18.903	1.00	31.46	HS8
ATOM	41939	O	LEU	H	119	125.839	119.906	-18.870	1.00	31.46	HS8
ATOM	41940	N	THR	H	120	125.680	122.017	-18.105	1.00	35.46	HS8
ATOM	41941	CA	THR	H	120	126.730	121.853	-17.101	1.00	35.46	HS8
ATOM	41942	CB	THR	H	120	126.944	123.110	-16.291	1.00	53.28	HS8
ATOM	41943	OG1	THR	H	120	125.950	123.172	-15.257	1.00	53.28	HS8
ATOM	41944	CG2	THR	H	120	126.836	124.331	-17.184	1.00	53.28	HS8
ATOM	41945	C	THR	H	120	126.279	120.790	-16.122	1.00	35.46	HS8
ATOM	41946	O	THR	H	120	125.120	120.360	-16.157	1.00	35.46	HS8
ATOM	41947	N	ASP	H	121	127.182	120.386	-15.235	1.00	50.84	HS8
ATOM	41948	CA	ASP	H	121	126.865	119.354	-14.257	1.00	50.84	HS8
ATOM	41949	CB	ASP	H	121	128.129	118.934	-13.497	1.00	79.98	HS8
ATOM	41950	CG	ASP	H	121	128.705	120.045	-12.639	1.00	79.98	HS8



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ATOM	41951	OD1	ASP	H	121	128.903	121.174	-13.146	1.00	79.98	HS8
ATOM	41952	OD2	ASP	H	121	128.975	119.777	-11.450	1.00	79.98	HS8
ATOM	41953	C	ASP	H	121	125.774	119.792	-13.285	1.00	50.84	HS8
ATOM	41954	O	ASP	H	121	124.834	119.035	-13.025	1.00	50.84	HS8
ATOM	41955	N	ARG	H	122	125.883	121.009	-12.757	1.00	43.15	HS8
ATOM	41956	CA	ARG	H	122	124.876	121.496	-11.827	1.00	43.15	HS8
ATOM	41957	CB	ARG	H	122	125.137	122.948	-11.461	1.00	113.37	HS8
ATOM	41958	CG	ARG	H	122	126.467	123.145	-10.824	1.00	113.37	HS8
ATOM	41959	CD	ARG	H	122	126.443	124.332	-9.909	1.00	113.37	HS8
ATOM	41960	NE	ARG	H	122	127.691	124.436	-9.164	1.00	113.37	HS8
ATOM	41961	CZ	ARG	H	122	127.907	125.303	-8.181	1.00	113.37	HS8
ATOM	41962	NH1	ARG	H	122	126.953	126.151	-7.815	1.00	113.37	HS8
ATOM	41963	NH2	ARG	H	122	129.080	125.323	-7.565	1.00	113.37	HS8
ATOM	41964	C	ARG	H	122	123.529	121.376	-12.508	1.00	43.15	HS8
ATOM	41965	O	ARG	H	122	122.569	120.861	-11.931	1.00	43.15	HS8
ATOM	41966	N	GLU	H	123	123.469	121.846	-13.749	1.00	32.23	HS8
ATOM	41967	CA	GLU	H	123	122.241	121.798	-14.526	1.00	32.23	HS8
ATOM	41968	CB	GLU	H	123	122.487	122.430	-15.901	1.00	79.11	HS8
ATOM	41969	CG	GLU	H	123	122.711	123.939	-15.845	1.00	79.11	HS8
ATOM	41970	CD	GLU	H	123	123.189	124.538	-17.166	1.00	79.11	HS8
ATOM	41971	OE1	GLU	H	123	122.742	124.080	-18.243	1.00	79.11	HS8
ATOM	41972	OE2	GLU	H	123	124.003	125.487	-17.125	1.00	79.11	HS8
ATOM	41973	C	GLU	H	123	121.813	120.340	-14.666	1.00	32.23	HS8
ATOM	41974	O	GLU	H	123	120.658	119.980	-14.441	1.00	32.23	HS8
ATOM	41975	N	ALA	H	124	122.765	119.488	-15.017	1.00	41.41	HS8
ATOM	41976	CA	ALA	H	124	122.466	118.080	-15.206	1.00	41.41	HS8
ATOM	41977	CB	ALA	H	124	123.711	117.358	-15.703	1.00	61.91	HS8
ATOM	41978	C	ALA	H	124	121.936	117.428	-13.933	1.00	41.41	HS8
ATOM	41979	O	ALA	H	124	120.961	116.685	-13.969	1.00	41.41	HS8
ATOM	41980	N	ARG	H	125	122.577	117.713	-12.808	1.00	42.75	HS8
ATOM	41981	CA	ARG	H	125	122.151	117.133	-11.550	1.00	42.75	HS8
ATOM	41982	CB	ARG	H	125	123.162	117.455	-10.460	1.00	87.74	HS8
ATOM	41983	CG	ARG	H	125	123.358	116.304	-9.508	1.00	87.74	HS8
ATOM	41984	CD	ARG	H	125	124.632	116.473	-8.730	1.00	87.74	HS8
ATOM	41985	NE	ARG	H	125	125.663	117.095	-9.551	1.00	87.74	HS8
ATOM	41986	CZ	ARG	H	125	126.948	117.133	-9.225	1.00	87.74	HS8
ATOM	41987	NH1	ARG	H	125	127.358	116.573	-8.092	1.00	87.74	HS8
ATOM	41988	NH2	ARG	H	125	127.819	117.741	-10.023	1.00	87.74	HS8
ATOM	41989	C	ARG	H	125	120.759	117.622	-11.143	1.00	42.75	HS8
ATOM	41990	O	ARG	H	125	119.947	116.839	-10.639	1.00	42.75	HS8
ATOM	41991	N	LYS	H	126	120.489	118.914	-11.356	1.00	47.81	HS8
ATOM	41992	CA	LYS	H	126	119.188	119.498	-11.033	1.00	47.81	HS8
ATOM	41993	CB	LYS	H	126	119.136	120.970	-11.452	1.00	82.17	HS8
ATOM	41994	CG	LYS	H	126	117.770	121.597	-11.226	1.00	82.17	HS8
ATOM	41995	CD	LYS	H	126	117.675	123.069	-11.638	1.00	82.17	HS8
ATOM	41996	CE	LYS	H	126	116.259	123.604	-11.364	1.00	82.17	HS8
ATOM	41997	NZ	LYS	H	126	116.056	125.039	-11.714	1.00	82.17	HS8
ATOM	41998	C	LYS	H	126	118.142	118.701	-11.806	1.00	47.81	HS8
ATOM	41999	O	LYS	H	126	117.163	118.215	-11.240	1.00	47.81	HS8
ATOM	42000	N	LEU	H	127	118.376	118.552	-13.104	1.00	42.97	HS8
ATOM	42001	CA	LEU	H	127	117.480	117.809	-13.978	1.00	42.97	HS8
ATOM	42002	CB	LEU	H	127	117.858	118.064	-15.436	1.00	37.23	HS8
ATOM	42003	CG	LEU	H	127	117.505	119.380	-16.121	1.00	37.23	HS8
ATOM	42004	CD1	LEU	H	127	116.031	119.358	-16.432	1.00	37.23	HS8
ATOM	42005	CD2	LEU	H	127	117.866	120.566	-15.250	1.00	37.23	HS8
ATOM	42006	C	LEU	H	127	117.529	116.295	-13.715	1.00	42.97	HS8
ATOM	42007	O	LEU	H	127	116.809	115.527	-14.353	1.00	42.97	HS8
ATOM	42008	N	GLY	H	128	118.387	115.863	-12.794	1.00	55.24	HS8
ATOM	42009	CA	GLY	H	128	118.499	114.441	-12.496	1.00	55.24	HS8
ATOM	42010	C	GLY	H	128	118.780	113.525	-13.684	1.00	55.24	HS8
ATOM	42011	O	GLY	H	128	118.038	112.572	-13.921	1.00	55.24	HS8
ATOM	42012	N	VAL	H	129	119.843	113.804	-14.436	1.00	60.34	HS8
ATOM	42013	CA	VAL	H	129	120.203	112.977	-15.589	1.00	60.34	HS8
ATOM	42014	CB	VAL	H	129	119.543	113.472	-16.910	1.00	31.17	HS8
ATOM	42015	CG1	VAL	H	129	118.059	113.668	-16.718	1.00	31.17	HS8
ATOM	42016	CG2	VAL	H	129	120.202	114.761	-17.377	1.00	31.17	HS8
ATOM	42017	C	VAL	H	129	121.709	113.004	-15.806	1.00	60.34	HS8
ATOM	42018	O	VAL	H	129	122.387	113.923	-15.342	1.00	60.34	HS8
ATOM	42019	N	GLY	H	130	122.218	111.995	-16.514	1.00	45.41	HS8
ATOM	42020	CA	GLY	H	130	123.639	111.921	-16.810	1.00	45.41	HS8
ATOM	42021	C	GLY	H	130	123.841	111.804	-18.312	1.00	45.41	HS8
ATOM	42022	O	GLY	H	130	122.860	111.792	-19.059	1.00	45.41	HS8
ATOM	42023	N	GLY	H	131	125.091	111.721	-18.765	1.00	67.47	HS8
ATOM	42024	CA	GLY	H	131	125.347	111.593	-20.192	1.00	67.47	HS8
ATOM	42025	C	GLY	H	131	126.820	111.458	-20.531	1.00	67.47	HS8
ATOM	42026	O	GLY	H	131	127.620	111.048	-19.686	1.00	67.47	HS8
ATOM	42027	N	GLU	H	132	127.182	111.772	-21.774	1.00	48.49	HS8



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ATOM	42028	CA	GLU	H	132	128.582	111.717	-22.185	1.00	48.49	HS8
ATOM	42029	CB	GLU	H	132	128.721	111.892	-23.699	1.00	68.05	HS8
ATOM	42030	CG	GLU	H	132	130.149	111.730	-24.187	1.00	68.05	HS8
ATOM	42031	CD	GLU	H	132	130.260	111.590	-25.697	1.00	68.05	HS8
ATOM	42032	OE1	GLU	H	132	129.395	110.909	-26.307	1.00	68.05	HS8
ATOM	42033	OE2	GLU	H	132	131.230	112.147	-26.270	1.00	68.05	HS8
ATOM	42034	C	GLU	H	132	129.244	112.886	-21.471	1.00	48.49	HS8
ATOM	42035	O	GLU	H	132	128.793	114.020	-21.600	1.00	48.49	HS8
ATOM	42036	N	LEU	H	133	130.295	112.607	-20.706	1.00	40.43	HS8
ATOM	42037	CA	LEU	H	133	131.007	113.631	-19.939	1.00	40.43	HS8
ATOM	42038	CB	LEU	H	133	131.697	112.966	-18.744	1.00	27.42	HS8
ATOM	42039	CG	LEU	H	133	131.956	113.745	-17.456	1.00	27.42	HS8
ATOM	42040	CD1	LEU	H	133	132.425	112.775	-16.398	1.00	27.42	HS8
ATOM	42041	CD2	LEU	H	133	132.984	114.826	-17.668	1.00	27.42	HS8
ATOM	42042	C	LEU	H	133	132.040	114.290	-20.838	1.00	40.43	HS8
ATOM	42043	O	LEU	H	133	133.226	114.009	-20.714	1.00	40.43	HS8
ATOM	42044	N	ILE	H	134	131.582	115.167	-21.730	1.00	62.41	HS8
ATOM	42045	CA	ILE	H	134	132.435	115.858	-22.699	1.00	62.41	HS8
ATOM	42046	CB	ILE	H	134	131.679	116.970	-23.399	1.00	50.49	HS8
ATOM	42047	CG2	ILE	H	134	132.581	117.663	-24.391	1.00	50.49	HS8
ATOM	42048	CG1	ILE	H	134	130.496	116.383	-24.150	1.00	50.49	HS8
ATOM	42049	CD1	ILE	H	134	129.523	117.434	-24.623	1.00	50.49	HS8
ATOM	42050	C	ILE	H	134	133.733	116.457	-22.197	1.00	62.41	HS8
ATOM	42051	O	ILE	H	134	134.774	115.809	-22.229	1.00	62.41	HS8
ATOM	42052	N	CYS	H	135	133.694	117.705	-21.758	1.00	43.72	HS8
ATOM	42053	CA	CYS	H	135	134.923	118.316	-21.288	1.00	43.72	HS8
ATOM	42054	CB	CYS	H	135	135.233	119.557	-22.104	1.00	58.53	HS8
ATOM	42055	SG	CYS	H	135	134.105	120.884	-21.759	1.00	58.53	HS8
ATOM	42056	C	CYS	H	135	134.892	118.681	-19.812	1.00	43.72	HS8
ATOM	42057	O	CYS	H	135	134.084	118.164	-19.044	1.00	43.72	HS8
ATOM	42058	N	GLU	H	136	135.762	119.599	-19.422	1.00	42.28	HS8
ATOM	42059	CA	GLU	H	136	135.844	119.980	-18.031	1.00	42.28	HS8
ATOM	42060	CB	GLU	H	136	136.525	118.851	-17.275	1.00	66.01	HS8
ATOM	42061	CG	GLU	H	136	137.071	119.213	-15.937	1.00	66.01	HS8
ATOM	42062	CD	GLU	H	136	138.209	118.297	-15.555	1.00	66.01	HS8
ATOM	42063	OE1	GLU	H	136	139.348	118.524	-16.033	1.00	66.01	HS8
ATOM	42064	OE2	GLU	H	136	137.958	117.335	-14.793	1.00	66.01	HS8
ATOM	42065	C	GLU	H	136	136.648	121.264	-17.930	1.00	42.28	HS8
ATOM	42066	O	GLU	H	136	137.872	121.242	-18.023	1.00	42.28	HS8
ATOM	42067	N	VAL	H	137	135.955	122.382	-17.744	1.00	29.91	HS8
ATOM	42068	CA	VAL	H	137	136.594	123.687	-17.648	1.00	29.91	HS8
ATOM	42069	CB	VAL	H	137	135.799	124.721	-18.452	1.00	33.24	HS8
ATOM	42070	CG1	VAL	H	137	136.430	126.088	-18.294	1.00	33.24	HS8
ATOM	42071	CG2	VAL	H	137	135.738	124.315	-19.908	1.00	33.24	HS8
ATOM	42072	C	VAL	H	137	136.640	124.148	-16.199	1.00	29.91	HS8
ATOM	42073	O	VAL	H	137	135.687	123.926	-15.468	1.00	29.91	HS8
ATOM	42074	N	TRP	H	138	137.737	124.774	-15.777	1.00	36.23	HS8
ATOM	42075	CA	TRP	H	138	137.830	125.269	-14.404	1.00	36.23	HS8
ATOM	42076	CB	TRP	H	138	138.023	124.121	-13.374	1.00	49.87	HS8
ATOM	42077	CG	TRP	H	138	139.312	123.291	-13.367	1.00	49.87	HS8
ATOM	42078	CD2	TRP	H	138	140.639	123.760	-13.163	1.00	49.87	HS8
ATOM	42079	CE2	TRP	H	138	141.492	122.628	-13.176	1.00	49.87	HS8
ATOM	42080	CE3	TRP	H	138	141.197	125.024	-12.976	1.00	49.87	HS8
ATOM	42081	CD1	TRP	H	138	139.413	121.917	-13.489	1.00	49.87	HS8
ATOM	42082	NE1	TRP	H	138	140.719	121.519	-13.374	1.00	49.87	HS8
ATOM	42083	CZ2	TRP	H	138	142.864	122.732	-13.013	1.00	49.87	HS8
ATOM	42084	CZ3	TRP	H	138	142.569	125.131	-12.815	1.00	49.87	HS8
ATOM	42085	CH2	TRP	H	138	143.391	123.991	-12.837	1.00	49.87	HS8
ATOM	42086	C	TRP	H	138	138.854	126.361	-14.165	1.00	36.23	HS8
ATOM	42087	O	TRP	H	138	139.309	126.969	-15.160	1.00	36.23	HS8
ATOM	42088	OXT	TRP	H	138	139.155	126.630	-12.980	1.00	78.84	HS8
TER	42088		TRP	H	138						HS8
ATOM	42089	CB	GLU	I	2	242.676	181.366	-3.946	1.00108.13		IS9
ATOM	42090	CG	GLU	I	2	243.672	181.403	-2.772	1.00108.13		IS9
ATOM	42091	CD	GLU	I	2	243.983	180.036	-2.158	1.00108.13		IS9
ATOM	42092	OE1	GLU	I	2	244.638	179.204	-2.824	1.00108.13		IS9
ATOM	42093	OE2	GLU	I	2	243.576	179.797	-0.997	1.00108.13		IS9
ATOM	42094	C	GLU	I	2	243.152	179.226	-5.152	1.00138.71		IS9
ATOM	42095	O	GLU	I	2	244.179	178.560	-5.286	1.00138.71		IS9
ATOM	42096	N	GLU	I	2	242.400	181.222	-6.406	1.00138.71		IS9
ATOM	42097	CA	GLU	I	2	243.205	180.748	-5.246	1.00138.71		IS9
ATOM	42098	N	GLN	I	3	241.957	178.675	-4.932	1.00121.43		IS9
ATOM	42099	CA	GLN	I	3	241.805	177.223	-4.810	1.00121.43		IS9
ATOM	42100	CB	GLN	I	3	242.190	176.784	-3.404	1.00	87.11	IS9
ATOM	42101	CG	GLN	I	3	242.499	175.317	-3.291	1.00	87.11	IS9
ATOM	42102	CD	GLN	I	3	242.668	174.893	-1.856	1.00	87.11	IS9
ATOM	42103	OE1	GLN	I	3	243.196	173.817	-1.565	1.00	87.11	IS9



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ATOM	42104	NE2	GLN	I	3	242.206	175.735	-0.941	1.00	87.11	IS9
ATOM	42105	C	GLN	I	3	240.402	176.702	-5.113	1.00121.43		IS9
ATOM	42106	O	GLN	I	3	239.415	177.426	-4.993	1.00121.43		IS9
ATOM	42107	N	TYR	I	4	240.324	175.432	-5.496	1.00119.74		IS9
ATOM	42108	CA	TYR	I	4	239.042	174.813	-5.809	1.00119.74		IS9
ATOM	42109	CB	TYR	I	4	238.798	174.835	-7.314	1.00126.90		IS9
ATOM	42110	CG	TYR	I	4	238.903	176.221	-7.879	1.00126.90		IS9
ATOM	42111	CD1	TYR	I	4	240.133	176.741	-8.279	1.00126.90		IS9
ATOM	42112	CE1	TYR	I	4	240.244	178.043	-8.736	1.00126.90		IS9
ATOM	42113	CD2	TYR	I	4	237.784	177.040	-7.953	1.00126.90		IS9
ATOM	42114	CE2	TYR	I	4	237.881	178.344	-8.409	1.00126.90		IS9
ATOM	42115	CZ	TYR	I	4	239.112	178.841	-8.799	1.00126.90		IS9
ATOM	42116	OH	TYR	I	4	239.201	180.134	-9.260	1.00126.90		IS9
ATOM	42117	C	TYR	I	4	238.932	173.389	-5.280	1.00119.74		IS9
ATOM	42118	O	TYR	I	4	239.922	172.658	-5.187	1.00119.74		IS9
ATOM	42119	N	TYR	I	5	237.705	173.002	-4.949	1.00	97.75	IS9
ATOM	42120	CA	TYR	I	5	237.445	171.689	-4.388	1.00	97.75	IS9
ATOM	42121	CB	TYR	I	5	236.983	171.858	-2.939	1.00	78.66	IS9
ATOM	42122	CG	TYR	I	5	236.926	170.581	-2.157	1.00	78.66	IS9
ATOM	42123	CD1	TYR	I	5	235.978	170.405	-1.157	1.00	78.66	IS9
ATOM	42124	CE1	TYR	I	5	235.894	169.214	-0.450	1.00	78.66	IS9
ATOM	42125	CD2	TYR	I	5	237.801	169.537	-2.431	1.00	78.66	IS9
ATOM	42126	CE2	TYR	I	5	237.728	168.341	-1.734	1.00	78.66	IS9
ATOM	42127	CZ	TYR	I	5	236.769	168.183	-0.745	1.00	78.66	IS9
ATOM	42128	OH	TYR	I	5	236.672	166.985	-0.072	1.00	78.66	IS9
ATOM	42129	C	TYR	I	5	236.414	170.878	-5.174	1.00	97.75	IS9
ATOM	42130	O	TYR	I	5	235.902	171.311	-6.203	1.00	97.75	IS9
ATOM	42131	N	GLY	I	6	236.121	169.695	-4.654	1.00	97.85	IS9
ATOM	42132	CA	GLY	I	6	235.177	168.776	-5.257	1.00	97.85	IS9
ATOM	42133	C	GLY	I	6	235.545	167.465	-4.597	1.00	97.85	IS9
ATOM	42134	O	GLY	I	6	236.727	167.118	-4.569	1.00	97.85	IS9
ATOM	42135	N	THR	I	7	234.570	166.740	-4.055	1.00168.00		IS9
ATOM	42136	CA	THR	I	7	234.881	165.486	-3.377	1.00168.00		IS9
ATOM	42137	CB	THR	I	7	233.790	165.122	-2.340	1.00	66.46	IS9
ATOM	42138	OG1	THR	I	7	233.608	166.219	-1.437	1.00	66.46	IS9
ATOM	42139	CG2	THR	I	7	234.214	163.911	-1.518	1.00	66.46	IS9
ATOM	42140	C	THR	I	7	235.113	164.306	-4.318	1.00168.00		IS9
ATOM	42141	O	THR	I	7	236.194	164.165	-4.884	1.00168.00		IS9
ATOM	42142	N	GLY	I	8	234.110	163.456	-4.490	1.00	80.48	IS9
ATOM	42143	CA	GLY	I	8	234.291	162.304	-5.357	1.00	80.48	IS9
ATOM	42144	C	GLY	I	8	234.389	160.975	-4.622	1.00	80.48	IS9
ATOM	42145	O	GLY	I	8	235.380	160.700	-3.932	1.00	80.48	IS9
ATOM	42146	N	ARG	I	9	233.349	160.153	-4.764	1.00	86.16	IS9
ATOM	42147	CA	ARG	I	9	233.295	158.834	-4.136	1.00	86.16	IS9
ATOM	42148	CB	ARG	I	9	232.312	158.822	-2.966	1.00	70.47	IS9
ATOM	42149	CG	ARG	I	9	232.919	159.186	-1.627	1.00	70.47	IS9
ATOM	42150	CD	ARG	I	9	231.820	159.333	-0.585	1.00	70.47	IS9
ATOM	42151	NE	ARG	I	9	230.855	160.355	-0.988	1.00	70.47	IS9
ATOM	42152	CZ	ARG	I	9	230.699	161.522	-0.372	1.00	70.47	IS9
ATOM	42153	NH1	ARG	I	9	231.441	161.810	0.691	1.00	70.47	IS9
ATOM	42154	NH2	ARG	I	9	229.825	162.411	-0.839	1.00	70.47	IS9
ATOM	42155	C	ARG	I	9	232.896	157.753	-5.139	1.00	86.16	IS9
ATOM	42156	O	ARG	I	9	232.047	157.967	-6.015	1.00	86.16	IS9
ATOM	42157	N	ARG	I	10	233.519	156.587	-4.994	1.00	42.45	IS9
ATOM	42158	CA	ARG	I	10	233.263	155.460	-5.877	1.00	42.45	IS9
ATOM	42159	CB	ARG	I	10	234.187	155.540	-7.097	1.00	77.99	IS9
ATOM	42160	CG	ARG	I	10	234.084	154.358	-8.023	1.00	77.99	IS9
ATOM	42161	CD	ARG	I	10	232.669	154.196	-8.513	1.00	77.99	IS9
ATOM	42162	NE	ARG	I	10	232.275	152.800	-8.433	1.00	77.99	IS9
ATOM	42163	CZ	ARG	I	10	232.891	151.831	-9.094	1.00	77.99	IS9
ATOM	42164	NH1	ARG	I	10	233.918	152.115	-9.884	1.00	77.99	IS9
ATOM	42165	NH2	ARG	I	10	232.493	150.580	-8.950	1.00	77.99	IS9
ATOM	42166	C	ARG	I	10	233.461	154.116	-5.180	1.00	42.45	IS9
ATOM	42167	O	ARG	I	10	234.479	153.881	-4.529	1.00	42.45	IS9
ATOM	42168	N	LYS	I	11	232.469	153.244	-5.302	1.00	65.48	IS9
ATOM	42169	CA	LYS	I	11	232.581	151.924	-4.717	1.00	65.48	IS9
ATOM	42170	CB	LYS	I	11	233.373	151.034	-5.686	1.00	57.33	IS9
ATOM	42171	CG	LYS	I	11	233.641	149.615	-5.204	1.00	57.33	IS9
ATOM	42172	CD	LYS	I	11	234.293	148.798	-6.293	1.00	57.33	IS9
ATOM	42173	CE	LYS	I	11	234.437	147.369	-5.860	1.00	57.33	IS9
ATOM	42174	NZ	LYS	I	11	234.526	146.551	-7.070	1.00	57.33	IS9
ATOM	42175	C	LYS	I	11	233.247	151.945	-3.334	1.00	65.48	IS9
ATOM	42176	O	LYS	I	11	234.158	151.171	-3.051	1.00	65.48	IS9
ATOM	42177	N	GLU	I	12	232.791	152.840	-2.472	1.00	62.65	IS9
ATOM	42178	CA	GLU	I	12	233.340	152.933	-1.122	1.00	62.65	IS9
ATOM	42179	CB	GLU	I	12	233.350	151.563	-0.461	1.00117.02		IS9
ATOM	42180	CG	GLU	I	12	233.635	151.635	1.009	1.00117.02		IS9



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ATOM	42181	CD	GLU	I	12	234.036	150.306	1.565	1.00117.02	IS9
ATOM	42182	OE1	GLU	I	12	235.104	149.801	1.155	1.00117.02	IS9
ATOM	42183	OE2	GLU	I	12	233.284	149.764	2.404	1.00117.02	IS9
ATOM	42184	C	GLU	I	12	234.746	153.537	-1.026	1.00 62.65	IS9
ATOM	42185	O	GLU	I	12	235.613	153.034	-0.298	1.00 62.65	IS9
ATOM	42186	N	ALA	I	13	234.956	154.626	-1.755	1.00 92.70	IS9
ATOM	42187	CA	ALA	I	13	236.236	155.314	-1.752	1.00 92.70	IS9
ATOM	42188	CB	ALA	I	13	237.091	154.846	-2.934	1.00 48.80	IS9
ATOM	42189	C	ALA	I	13	235.975	156.813	-1.845	1.00 92.70	IS9
ATOM	42190	O	ALA	I	13	235.219	157.263	-2.709	1.00 92.70	IS9
ATOM	42191	N	VAL	I	14	236.586	157.583	-0.945	1.00 75.13	IS9
ATOM	42192	CA	VAL	I	14	236.400	159.028	-0.961	1.00 75.13	IS9
ATOM	42193	CB	VAL	I	14	236.061	159.582	0.433	1.00 98.33	IS9
ATOM	42194	CG1	VAL	I	14	235.583	161.016	0.298	1.00 98.33	IS9
ATOM	42195	CG2	VAL	I	14	235.000	158.723	1.104	1.00 98.33	IS9
ATOM	42196	C	VAL	I	14	237.672	159.696	-1.447	1.00 75.13	IS9
ATOM	42197	O	VAL	I	14	238.774	159.204	-1.203	1.00 75.13	IS9
ATOM	42198	N	ALA	I	15	237.523	160.822	-2.128	1.00122.12	IS9
ATOM	42199	CA	ALA	I	15	238.687	161.515	-2.642	1.00122.12	IS9
ATOM	42200	CB	ALA	I	15	238.916	161.110	-4.100	1.00 39.66	IS9
ATOM	42201	C	ALA	I	15	238.580	163.032	-2.525	1.00122.12	IS9
ATOM	42202	O	ALA	I	15	237.684	163.642	-3.109	1.00122.12	IS9
ATOM	42203	N	ARG	I	16	239.489	163.635	-1.757	1.00 79.33	IS9
ATOM	42204	CA	ARG	I	16	239.514	165.086	-1.600	1.00 79.33	IS9
ATOM	42205	CB	ARG	I	16	240.171	165.478	-0.273	1.00101.85	IS9
ATOM	42206	CG	ARG	I	16	239.575	164.827	0.958	1.00101.85	IS9
ATOM	42207	CD	ARG	I	16	240.099	165.498	2.217	1.00101.85	IS9
ATOM	42208	NE	ARG	I	16	240.109	164.588	3.363	1.00101.85	IS9
ATOM	42209	CZ	ARG	I	16	240.585	164.902	4.568	1.00101.85	IS9
ATOM	42210	NH1	ARG	I	16	241.082	166.111	4.783	1.00101.85	IS9
ATOM	42211	NH2	ARG	I	16	240.586	164.007	5.552	1.00101.85	IS9
ATOM	42212	C	ARG	I	16	240.347	165.627	-2.760	1.00 79.33	IS9
ATOM	42213	O	ARG	I	16	241.552	165.389	-2.823	1.00 79.33	IS9
ATOM	42214	N	VAL	I	17	239.705	166.332	-3.686	1.00 98.86	IS9
ATOM	42215	CA	VAL	I	17	240.415	166.883	-4.838	1.00 98.86	IS9
ATOM	42216	CB	VAL	I	17	239.717	166.485	-6.175	1.00 93.20	IS9
ATOM	42217	CG1	VAL	I	17	240.300	167.269	-7.337	1.00 93.20	IS9
ATOM	42218	CG2	VAL	I	17	239.908	165.000	-6.435	1.00 93.20	IS9
ATOM	42219	C	VAL	I	17	240.537	168.404	-4.761	1.00 98.86	IS9
ATOM	42220	O	VAL	I	17	239.536	169.126	-4.811	1.00 98.86	IS9
ATOM	42221	N	PHE	I	18	241.777	168.878	-4.639	1.00 77.83	IS9
ATOM	42222	CA	PHE	I	18	242.074	170.306	-4.555	1.00 77.83	IS9
ATOM	42223	CB	PHE	I	18	242.929	170.589	-3.319	1.00 82.31	IS9
ATOM	42224	CG	PHE	I	18	242.216	170.342	-2.018	1.00 82.31	IS9
ATOM	42225	CD1	PHE	I	18	242.792	169.536	-1.034	1.00 82.31	IS9
ATOM	42226	CD2	PHE	I	18	240.979	170.937	-1.762	1.00 82.31	IS9
ATOM	42227	CE1	PHE	I	18	242.147	169.325	0.192	1.00 82.31	IS9
ATOM	42228	CE2	PHE	I	18	240.326	170.733	-0.542	1.00 82.31	IS9
ATOM	42229	CZ	PHE	I	18	240.915	169.925	0.437	1.00 82.31	IS9
ATOM	42230	C	PHE	I	18	242.801	170.798	-5.802	1.00 77.83	IS9
ATOM	42231	O	PHE	I	18	243.975	170.485	-6.021	1.00 77.83	IS9
ATOM	42232	N	LEU	I	19	242.089	171.559	-6.623	1.00 94.57	IS9
ATOM	42233	CA	LEU	I	19	242.672	172.104	-7.837	1.00 94.57	IS9
ATOM	42234	CB	LEU	I	19	241.629	172.217	-8.938	1.00 64.82	IS9
ATOM	42235	CG	LEU	I	19	241.189	170.894	-9.534	1.00 64.82	IS9
ATOM	42236	CD1	LEU	I	19	240.332	171.160	-10.757	1.00 64.82	IS9
ATOM	42237	CD2	LEU	I	19	242.417	170.089	-9.910	1.00 64.82	IS9
ATOM	42238	C	LEU	I	19	243.266	173.473	-7.593	1.00 94.57	IS9
ATOM	42239	O	LEU	I	19	242.809	174.222	-6.728	1.00 94.57	IS9
ATOM	42240	N	ARG	I	20	244.282	173.801	-8.375	1.00132.30	IS9
ATOM	42241	CA	ARG	I	20	244.959	175.077	-8.254	1.00132.30	IS9
ATOM	42242	CB	ARG	I	20	246.051	174.970	-7.185	1.00 87.77	IS9
ATOM	42243	CG	ARG	I	20	245.496	174.563	-5.823	1.00 87.77	IS9
ATOM	42244	CD	ARG	I	20	246.535	174.041	-4.830	1.00 87.77	IS9
ATOM	42245	NE	ARG	I	20	245.887	173.614	-3.583	1.00 87.77	IS9
ATOM	42246	CZ	ARG	I	20	246.517	173.113	-2.521	1.00 87.77	IS9
ATOM	42247	NH1	ARG	I	20	247.836	172.960	-2.523	1.00 87.77	IS9
ATOM	42248	NH2	ARG	I	20	245.823	172.763	-1.446	1.00 87.77	IS9
ATOM	42249	C	ARG	I	20	245.561	175.341	-9.618	1.00132.30	IS9
ATOM	42250	O	ARG	I	20	245.998	174.408	-10.291	1.00132.30	IS9
ATOM	42251	N	PRO	I	21	245.556	176.604	-10.071	1.00133.13	IS9
ATOM	42252	CD	PRO	I	21	244.804	177.769	-9.582	1.00 82.62	IS9
ATOM	42253	CA	PRO	I	21	246.140	176.880	-11.388	1.00133.13	IS9
ATOM	42254	CB	PRO	I	21	245.707	178.317	-11.669	1.00 82.62	IS9
ATOM	42255	CG	PRO	I	21	244.441	178.455	-10.875	1.00 82.62	IS9
ATOM	42256	C	PRO	I	21	247.655	176.741	-11.292	1.00133.13	IS9
ATOM	42257	O	PRO	I	21	248.288	177.395	-10.461	1.00133.13	IS9



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ATOM	42258	N	GLY	I	22	248.234	175.882	-12.126	1.00111.99	IS9
ATOM	42259	CA	GLY	I	22	249.671	175.691	-12.078	1.00111.99	IS9
ATOM	42260	C	GLY	I	22	250.243	174.762	-13.132	1.00111.99	IS9
ATOM	42261	O	GLY	I	22	249.657	174.571	-14.200	1.00111.99	IS9
ATOM	42262	N	ASN	I	23	251.402	174.190	-12.816	1.00102.87	IS9
ATOM	42263	CA	ASN	I	23	252.106	173.276	-13.707	1.00102.87	IS9
ATOM	42264	CB	ASN	I	23	253.255	172.613	-12.945	1.00169.99	IS9
ATOM	42265	CG	ASN	I	23	254.056	171.661	-13.809	1.00169.99	IS9
ATOM	42266	OD1	ASN	I	23	254.932	170.947	-13.317	1.00169.99	IS9
ATOM	42267	ND2	ASN	I	23	253.764	171.646	-15.106	1.00169.99	IS9
ATOM	42268	C	ASN	I	23	251.193	172.200	-14.297	1.00102.87	IS9
ATOM	42269	O	ASN	I	23	250.924	172.191	-15.502	1.00102.87	IS9
ATOM	42270	N	GLY	I	24	250.732	171.290	-13.442	1.00124.05	IS9
ATOM	42271	CA	GLY	I	24	249.860	170.219	-13.889	1.00124.05	IS9
ATOM	42272	C	GLY	I	24	250.110	168.923	-13.148	1.00124.05	IS9
ATOM	42273	O	GLY	I	24	249.588	167.874	-13.526	1.00124.05	IS9
ATOM	42274	N	LYS	I	25	250.903	169.001	-12.084	1.00103.73	IS9
ATOM	42275	CA	LYS	I	25	251.249	167.832	-11.279	1.00103.73	IS9
ATOM	42276	CB	LYS	I	25	252.548	168.102	-10.509	1.00118.22	IS9
ATOM	42277	CG	LYS	I	25	252.485	169.304	-9.580	1.00118.22	IS9
ATOM	42278	CD	LYS	I	25	253.829	169.590	-8.920	1.00118.22	IS9
ATOM	42279	CE	LYS	I	25	254.855	170.112	-9.919	1.00118.22	IS9
ATOM	42280	NZ	LYS	I	25	256.140	170.480	-9.251	1.00118.22	IS9
ATOM	42281	C	LYS	I	25	250.147	167.408	-10.305	1.00103.73	IS9
ATOM	42282	O	LYS	I	25	249.132	168.093	-10.158	1.00103.73	IS9
ATOM	42283	N	VAL	I	26	250.353	166.269	-9.646	1.00 75.39	IS9
ATOM	42284	CA	VAL	I	26	249.377	165.747	-8.692	1.00 75.39	IS9
ATOM	42285	CB	VAL	I	26	248.450	164.712	-9.351	1.00 68.12	IS9
ATOM	42286	CG1	VAL	I	26	247.303	164.384	-8.401	1.00 68.12	IS9
ATOM	42287	CG2	VAL	I	26	247.940	165.234	-10.695	1.00 68.12	IS9
ATOM	42288	C	VAL	I	26	250.030	165.086	-7.478	1.00 75.39	IS9
ATOM	42289	O	VAL	I	26	250.852	164.178	-7.608	1.00 75.39	IS9
ATOM	42290	N	THR	I	27	249.645	165.535	-6.293	1.00 93.10	IS9
ATOM	42291	CA	THR	I	27	250.212	164.989	-5.074	1.00 93.10	IS9
ATOM	42292	CB	THR	I	27	250.687	166.111	-4.134	1.00197.98	IS9
ATOM	42293	OG1	THR	I	27	251.671	166.907	-4.804	1.00197.98	IS9
ATOM	42294	CG2	THR	I	27	251.296	165.526	-2.867	1.00197.98	IS9
ATOM	42295	C	THR	I	27	249.203	164.129	-4.339	1.00 93.10	IS9
ATOM	42296	O	THR	I	27	248.619	164.548	-3.337	1.00 93.10	IS9
ATOM	42297	N	VAL	I	28	248.999	162.920	-4.841	1.00 85.71	IS9
ATOM	42298	CA	VAL	I	28	248.061	162.000	-4.218	1.00 85.71	IS9
ATOM	42299	CB	VAL	I	28	247.644	160.905	-5.202	1.00 89.27	IS9
ATOM	42300	CG1	VAL	I	28	246.653	159.965	-4.540	1.00 89.27	IS9
ATOM	42301	CG2	VAL	I	28	247.045	161.539	-6.443	1.00 89.27	IS9
ATOM	42302	C	VAL	I	28	248.677	161.343	-2.985	1.00 85.71	IS9
ATOM	42303	O	VAL	I	28	249.566	160.500	-3.105	1.00 85.71	IS9
ATOM	42304	N	ASN	I	29	248.201	161.734	-1.803	1.00 97.06	IS9
ATOM	42305	CA	ASN	I	29	248.708	161.177	-0.552	1.00 97.06	IS9
ATOM	42306	CB	ASN	I	29	248.385	159.690	-0.473	1.00 88.72	IS9
ATOM	42307	CG	ASN	I	29	247.050	159.427	0.149	1.00 88.72	IS9
ATOM	42308	OD1	ASN	I	29	246.053	160.054	-0.206	1.00 88.72	IS9
ATOM	42309	ND2	ASN	I	29	247.015	158.491	1.086	1.00 88.72	IS9
ATOM	42310	C	ASN	I	29	250.208	161.359	-0.444	1.00 97.06	IS9
ATOM	42311	O	ASN	I	29	250.924	160.475	0.029	1.00 97.06	IS9
ATOM	42312	N	GLY	I	30	250.686	162.515	-0.872	1.00141.48	IS9
ATOM	42313	CA	GLY	I	30	252.110	162.741	-0.823	1.00141.48	IS9
ATOM	42314	C	GLY	I	30	252.701	162.193	-2.102	1.00141.48	IS9
ATOM	42315	O	GLY	I	30	252.973	162.962	-3.021	1.00141.48	IS9
ATOM	42316	N	GLN	I	31	252.876	160.873	-2.183	1.00 73.47	IS9
ATOM	42317	CA	GLN	I	31	253.453	160.258	-3.382	1.00 73.47	IS9
ATOM	42318	CB	GLN	I	31	253.125	158.769	-3.458	1.00126.21	IS9
ATOM	42319	CG	GLN	I	31	253.721	157.927	-2.357	1.00126.21	IS9
ATOM	42320	CD	GLN	I	31	253.814	156.467	-2.756	1.00126.21	IS9
ATOM	42321	OE1	GLN	I	31	252.868	155.902	-3.311	1.00126.21	IS9
ATOM	42322	NE2	GLN	I	31	254.956	155.844	-2.475	1.00126.21	IS9
ATOM	42323	C	GLN	I	31	252.940	160.931	-4.645	1.00 73.47	IS9
ATOM	42324	O	GLN	I	31	251.818	161.446	-4.677	1.00 73.47	IS9
ATOM	42325	N	ASP	I	32	253.765	160.936	-5.685	1.00 73.62	IS9
ATOM	42326	CA	ASP	I	32	253.345	161.553	-6.928	1.00 73.62	IS9
ATOM	42327	CB	ASP	I	32	254.533	161.742	-7.869	1.00124.16	IS9
ATOM	42328	CG	ASP	I	32	254.174	162.559	-9.094	1.00124.16	IS9
ATOM	42329	OD1	ASP	I	32	253.359	162.090	-9.914	1.00124.16	IS9
ATOM	42330	OD2	ASP	I	32	254.698	163.681	-9.236	1.00124.16	IS9
ATOM	42331	C	ASP	I	32	252.305	160.648	-7.573	1.00 73.62	IS9
ATOM	42332	O	ASP	I	32	252.351	159.424	-7.414	1.00 73.62	IS9
ATOM	42333	N	PHE	I	33	251.359	161.257	-8.284	1.00116.68	IS9
ATOM	42334	CA	PHE	I	33	250.297	160.525	-8.967	1.00116.68	IS9



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ATOM	42335	CB	PHE	I	33	249.721	161.391	-10.084	1.00	79.34	IS9
ATOM	42336	CG	PHE	I	33	248.510	160.807	-10.756	1.00	79.34	IS9
ATOM	42337	CD1	PHE	I	33	247.458	160.290	-10.007	1.00	79.34	IS9
ATOM	42338	CD2	PHE	I	33	248.377	160.862	-12.142	1.00	79.34	IS9
ATOM	42339	CE1	PHE	I	33	246.287	159.846	-10.628	1.00	79.34	IS9
ATOM	42340	CE2	PHE	I	33	247.213	160.422	-12.767	1.00	79.34	IS9
ATOM	42341	CZ	PHE	I	33	246.166	159.915	-12.009	1.00	79.34	IS9
ATOM	42342	C	PHE	I	33	250.847	159.238	-9.556	1.00116.68		IS9
ATOM	42343	O	PHE	I	33	250.480	158.142	-9.129	1.00116.68		IS9
ATOM	42344	N	ASN	I	34	251.747	159.393	-10.526	1.00	74.67	IS9
ATOM	42345	CA	ASN	I	34	252.384	158.274	-11.219	1.00	74.67	IS9
ATOM	42346	CB	ASN	I	34	253.099	158.789	-12.468	1.00122.93		IS9
ATOM	42347	CG	ASN	I	34	252.341	159.917	-13.146	1.00122.93		IS9
ATOM	42348	OD1	ASN	I	34	251.153	159.791	-13.449	1.00122.93		IS9
ATOM	42349	ND2	ASN	I	34	253.027	161.030	-13.385	1.00122.93		IS9
ATOM	42350	C	ASN	I	34	253.374	157.532	-10.323	1.00	74.67	IS9
ATOM	42351	O	ASN	I	34	254.356	156.966	-10.801	1.00	74.67	IS9
ATOM	42352	N	GLU	I	35	253.111	157.546	-9.021	1.00	74.19	IS9
ATOM	42353	CA	GLU	I	35	253.962	156.865	-8.062	1.00	74.19	IS9
ATOM	42354	CB	GLU	I	35	254.778	157.877	-7.257	1.00138.01		IS9
ATOM	42355	CG	GLU	I	35	255.965	157.253	-6.565	1.00138.01		IS9
ATOM	42356	CD	GLU	I	35	256.736	156.332	-7.492	1.00138.01		IS9
ATOM	42357	OE1	GLU	I	35	257.216	156.805	-8.543	1.00138.01		IS9
ATOM	42358	OE2	GLU	I	35	256.854	155.131	-7.176	1.00138.01		IS9
ATOM	42359	C	GLU	I	35	253.072	156.036	-7.139	1.00	74.19	IS9
ATOM	42360	O	GLU	I	35	253.424	154.913	-6.763	1.00	74.19	IS9
ATOM	42361	N	TYR	I	36	251.919	156.597	-6.776	1.00	73.87	IS9
ATOM	42362	CA	TYR	I	36	250.949	155.907	-5.924	1.00	73.87	IS9
ATOM	42363	CB	TYR	I	36	249.885	156.902	-5.433	1.00	98.68	IS9
ATOM	42364	CG	TYR	I	36	248.849	156.329	-4.478	1.00	98.68	IS9
ATOM	42365	CD1	TYR	I	36	249.232	155.703	-3.288	1.00	98.68	IS9
ATOM	42366	CE1	TYR	I	36	248.279	155.204	-2.387	1.00	98.68	IS9
ATOM	42367	CD2	TYR	I	36	247.482	156.440	-4.748	1.00	98.68	IS9
ATOM	42368	CE2	TYR	I	36	246.521	155.945	-3.858	1.00	98.68	IS9
ATOM	42369	CZ	TYR	I	36	246.930	155.328	-2.679	1.00	98.68	IS9
ATOM	42370	OH	TYR	I	36	246.000	154.827	-1.797	1.00	98.68	IS9
ATOM	42371	C	TYR	I	36	250.313	154.853	-6.829	1.00	73.87	IS9
ATOM	42372	O	TYR	I	36	250.052	153.720	-6.417	1.00	73.87	IS9
ATOM	42373	N	PHE	I	37	250.081	155.264	-8.075	1.00	68.90	IS9
ATOM	42374	CA	PHE	I	37	249.496	154.424	-9.115	1.00	68.90	IS9
ATOM	42375	CB	PHE	I	37	248.499	155.244	-9.930	1.00	68.91	IS9
ATOM	42376	CG	PHE	I	37	247.314	155.706	-9.134	1.00	68.91	IS9
ATOM	42377	CD1	PHE	I	37	246.503	156.732	-9.604	1.00	68.91	IS9
ATOM	42378	CD2	PHE	I	37	246.996	155.099	-7.917	1.00	68.91	IS9
ATOM	42379	CE1	PHE	I	37	245.397	157.147	-8.877	1.00	68.91	IS9
ATOM	42380	CE2	PHE	I	37	245.895	155.505	-7.187	1.00	68.91	IS9
ATOM	42381	CZ	PHE	I	37	245.094	156.530	-7.665	1.00	68.91	IS9
ATOM	42382	C	PHE	I	37	250.621	153.908	-10.000	1.00	68.90	IS9
ATOM	42383	O	PHE	I	37	250.566	153.965	-11.233	1.00	68.90	IS9
ATOM	42384	N	GLN	I	38	251.648	153.406	-9.330	1.00	90.22	IS9
ATOM	42385	CA	GLN	I	38	252.825	152.869	-9.979	1.00	90.22	IS9
ATOM	42386	CB	GLN	I	38	253.897	152.596	-8.917	1.00112.05		IS9
ATOM	42387	CG	GLN	I	38	255.335	152.749	-9.388	1.00112.05		IS9
ATOM	42388	CD	GLN	I	38	255.761	151.679	-10.371	1.00112.05		IS9
ATOM	42389	OE1	GLN	I	38	255.193	151.552	-11.457	1.00112.05		IS9
ATOM	42390	NE2	GLN	I	38	256.773	150.903	-9.996	1.00112.05		IS9
ATOM	42391	C	GLN	I	38	252.454	151.580	-10.699	1.00	90.22	IS9
ATOM	42392	O	GLN	I	38	252.462	150.504	-10.102	1.00	90.22	IS9
ATOM	42393	N	GLY	I	39	252.102	151.695	-11.975	1.00	85.63	IS9
ATOM	42394	CA	GLY	I	39	251.763	150.512	-12.750	1.00	85.63	IS9
ATOM	42395	C	GLY	I	39	250.337	149.988	-12.711	1.00	85.63	IS9
ATOM	42396	O	GLY	I	39	250.117	148.827	-12.371	1.00	85.63	IS9
ATOM	42397	N	LEU	I	40	249.373	150.839	-13.061	1.00	53.86	IS9
ATOM	42398	CA	LEU	I	40	247.960	150.467	-13.107	1.00	53.86	IS9
ATOM	42399	CB	LEU	I	40	247.199	151.025	-11.908	1.00	60.09	IS9
ATOM	42400	CG	LEU	I	40	247.689	150.710	-10.496	1.00	60.09	IS9
ATOM	42401	CD1	LEU	I	40	246.721	151.335	-9.487	1.00	60.09	IS9
ATOM	42402	CD2	LEU	I	40	247.777	149.209	-10.289	1.00	60.09	IS9
ATOM	42403	C	LEU	I	40	247.416	151.118	-14.367	1.00	53.86	IS9
ATOM	42404	O	LEU	I	40	247.024	152.286	-14.346	1.00	53.86	IS9
ATOM	42405	N	VAL	I	41	247.394	150.370	-15.462	1.00	69.43	IS9
ATOM	42406	CA	VAL	I	41	246.927	150.903	-16.738	1.00	69.43	IS9
ATOM	42407	CB	VAL	I	41	246.510	149.758	-17.671	1.00	71.47	IS9
ATOM	42408	CG1	VAL	I	41	246.400	150.261	-19.108	1.00	71.47	IS9
ATOM	42409	CG2	VAL	I	41	247.512	148.630	-17.558	1.00	71.47	IS9
ATOM	42410	C	VAL	I	41	245.770	151.906	-16.630	1.00	69.43	IS9
ATOM	42411	O	VAL	I	41	245.708	152.882	-17.377	1.00	69.43	IS9



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ATOM	42412	N	ARG	I	42	244.860	151.670	-15.693	1.00	81.79	IS9
ATOM	42413	CA	ARG	I	42	243.704	152.541	-15.508	1.00	81.79	IS9
ATOM	42414	CB	ARG	I	42	242.795	151.963	-14.423	1.00	86.56	IS9
ATOM	42415	CG	ARG	I	42	242.058	150.702	-14.833	1.00	86.56	IS9
ATOM	42416	CD	ARG	I	42	240.583	150.995	-14.960	1.00	86.56	IS9
ATOM	42417	NE	ARG	I	42	240.000	151.327	-13.664	1.00	86.56	IS9
ATOM	42418	CZ	ARG	I	42	239.099	152.286	-13.473	1.00	86.56	IS9
ATOM	42419	NH1	ARG	I	42	238.671	153.021	-14.495	1.00	86.56	IS9
ATOM	42420	NH2	ARG	I	42	238.620	152.506	-12.256	1.00	86.56	IS9
ATOM	42421	C	ARG	I	42	244.063	153.979	-15.150	1.00	81.79	IS9
ATOM	42422	O	ARG	I	42	243.576	154.921	-15.778	1.00	81.79	IS9
ATOM	42423	N	ALA	I	43	244.906	154.127	-14.131	1.00	95.42	IS9
ATOM	42424	CA	ALA	I	43	245.356	155.425	-13.630	1.00	95.42	IS9
ATOM	42425	CB	ALA	I	43	246.863	155.392	-13.407	1.00	127.22	IS9
ATOM	42426	C	ALA	I	43	244.986	156.611	-14.518	1.00	95.42	IS9
ATOM	42427	O	ALA	I	43	244.158	157.445	-14.147	1.00	95.42	IS9
ATOM	42428	N	VAL	I	44	245.609	156.678	-15.689	1.00	71.47	IS9
ATOM	42429	CA	VAL	I	44	245.373	157.750	-16.647	1.00	71.47	IS9
ATOM	42430	CB	VAL	I	44	245.681	157.264	-18.065	1.00	82.89	IS9
ATOM	42431	CG1	VAL	I	44	245.557	158.414	-19.050	1.00	82.89	IS9
ATOM	42432	CG2	VAL	I	44	247.072	156.641	-18.103	1.00	82.89	IS9
ATOM	42433	C	VAL	I	44	243.940	158.268	-16.618	1.00	71.47	IS9
ATOM	42434	O	VAL	I	44	243.696	159.462	-16.779	1.00	71.47	IS9
ATOM	42435	N	ALA	I	45	242.999	157.354	-16.414	1.00	94.11	IS9
ATOM	42436	CA	ALA	I	45	241.577	157.674	-16.369	1.00	94.11	IS9
ATOM	42437	CB	ALA	I	45	240.793	156.421	-16.021	1.00	91.33	IS9
ATOM	42438	C	ALA	I	45	241.191	158.800	-15.408	1.00	94.11	IS9
ATOM	42439	O	ALA	I	45	240.459	159.714	-15.784	1.00	94.11	IS9
ATOM	42440	N	ALA	I	46	241.675	158.723	-14.171	1.00	103.71	IS9
ATOM	42441	CA	ALA	I	46	241.370	159.717	-13.141	1.00	103.71	IS9
ATOM	42442	CB	ALA	I	46	242.286	159.508	-11.939	1.00	56.50	IS9
ATOM	42443	C	ALA	I	46	241.448	161.179	-13.598	1.00	103.71	IS9
ATOM	42444	O	ALA	I	46	240.669	162.020	-13.142	1.00	103.71	IS9
ATOM	42445	N	LEU	I	47	242.386	161.477	-14.494	1.00	82.42	IS9
ATOM	42446	CA	LEU	I	47	242.581	162.841	-14.995	1.00	82.42	IS9
ATOM	42447	CB	LEU	I	47	244.071	163.094	-15.259	1.00	81.84	IS9
ATOM	42448	CG	LEU	I	47	245.086	162.617	-14.216	1.00	81.84	IS9
ATOM	42449	CD1	LEU	I	47	246.486	162.977	-14.684	1.00	81.84	IS9
ATOM	42450	CD2	LEU	I	47	244.791	163.251	-12.871	1.00	81.84	IS9
ATOM	42451	C	LEU	I	47	241.800	163.108	-16.278	1.00	82.42	IS9
ATOM	42452	O	LEU	I	47	241.837	164.211	-16.819	1.00	82.42	IS9
ATOM	42453	N	GLU	I	48	241.101	162.091	-16.766	1.00	79.23	IS9
ATOM	42454	CA	GLU	I	48	240.317	162.223	-17.985	1.00	79.23	IS9
ATOM	42455	CB	GLU	I	48	239.536	160.934	-18.242	1.00	134.85	IS9
ATOM	42456	CG	GLU	I	48	239.311	160.632	-19.710	1.00	134.85	IS9
ATOM	42457	CD	GLU	I	48	240.597	160.701	-20.512	1.00	134.85	IS9
ATOM	42458	OE1	GLU	I	48	241.023	161.822	-20.861	1.00	134.85	IS9
ATOM	42459	OE2	GLU	I	48	241.191	159.637	-20.782	1.00	134.85	IS9
ATOM	42460	C	GLU	I	48	239.363	163.419	-17.912	1.00	79.23	IS9
ATOM	42461	O	GLU	I	48	239.105	164.077	-18.918	1.00	79.23	IS9
ATOM	42462	N	PRO	I	49	238.822	163.718	-16.719	1.00	96.51	IS9
ATOM	42463	CD	PRO	I	49	238.899	163.044	-15.408	1.00	71.40	IS9
ATOM	42464	CA	PRO	I	49	237.915	164.869	-16.666	1.00	96.51	IS9
ATOM	42465	CB	PRO	I	49	237.302	164.758	-15.274	1.00	71.40	IS9
ATOM	42466	CG	PRO	I	49	238.411	164.115	-14.472	1.00	71.40	IS9
ATOM	42467	C	PRO	I	49	238.667	166.181	-16.881	1.00	96.51	IS9
ATOM	42468	O	PRO	I	49	238.060	167.219	-17.136	1.00	96.51	IS9
ATOM	42469	N	LEU	I	50	239.993	166.129	-16.773	1.00	95.38	IS9
ATOM	42470	CA	LEU	I	50	240.826	167.312	-16.981	1.00	95.38	IS9
ATOM	42471	CB	LEU	I	50	242.211	167.123	-16.358	1.00	79.70	IS9
ATOM	42472	CG	LEU	I	50	242.222	167.129	-14.828	1.00	79.70	IS9
ATOM	42473	CD1	LEU	I	50	243.579	166.712	-14.290	1.00	79.70	IS9
ATOM	42474	CD2	LEU	I	50	241.847	168.522	-14.352	1.00	79.70	IS9
ATOM	42475	C	LEU	I	50	240.962	167.548	-18.471	1.00	95.38	IS9
ATOM	42476	O	LEU	I	50	240.702	168.648	-18.948	1.00	95.38	IS9
ATOM	42477	N	ARG	I	51	241.362	166.506	-19.200	1.00	72.50	IS9
ATOM	42478	CA	ARG	I	51	241.514	166.592	-20.651	1.00	72.50	IS9
ATOM	42479	CB	ARG	I	51	241.963	165.254	-21.244	1.00	154.46	IS9
ATOM	42480	CG	ARG	I	51	243.177	164.643	-20.593	1.00	154.46	IS9
ATOM	42481	CD	ARG	I	51	243.610	163.390	-21.333	1.00	154.46	IS9
ATOM	42482	NE	ARG	I	51	244.581	162.617	-20.564	1.00	154.46	IS9
ATOM	42483	CZ	ARG	I	51	244.289	161.933	-19.460	1.00	154.46	IS9
ATOM	42484	NH1	ARG	I	51	243.048	161.916	-18.990	1.00	154.46	IS9
ATOM	42485	NH2	ARG	I	51	245.242	161.271	-18.817	1.00	154.46	IS9
ATOM	42486	C	ARG	I	51	240.168	166.955	-21.258	1.00	72.50	IS9
ATOM	42487	O	ARG	I	51	240.086	167.354	-22.417	1.00	72.50	IS9
ATOM	42488	N	ALA	I	52	239.113	166.801	-20.467	1.00	92.86	IS9



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ATOM	42489	CA	ALA	I	52	237.763	167.103	-20.913	1.00	92.86	IS9
ATOM	42490	CB	ALA	I	52	236.810	166.987	-19.746	1.00	63.84	IS9
ATOM	42491	C	ALA	I	52	237.667	168.497	-21.527	1.00	92.86	IS9
ATOM	42492	O	ALA	I	52	237.324	168.651	-22.704	1.00	92.86	IS9
ATOM	42493	N	VAL	I	53	237.975	169.508	-20.721	1.00	90.73	IS9
ATOM	42494	CA	VAL	I	53	237.923	170.898	-21.164	1.00	90.73	IS9
ATOM	42495	CB	VAL	I	53	237.227	171.772	-20.100	1.00	65.60	IS9
ATOM	42496	CG1	VAL	I	53	235.822	172.148	-20.565	1.00	65.60	IS9
ATOM	42497	CG2	VAL	I	53	237.176	171.015	-18.765	1.00	65.60	IS9
ATOM	42498	C	VAL	I	53	239.318	171.466	-21.443	1.00	90.73	IS9
ATOM	42499	O	VAL	I	53	239.486	172.672	-21.632	1.00	90.73	IS9
ATOM	42500	N	ASP	I	54	240.312	170.583	-21.470	1.00	97.22	IS9
ATOM	42501	CA	ASP	I	54	241.704	170.959	-21.717	1.00	97.22	IS9
ATOM	42502	CB	ASP	I	54	241.815	171.766	-23.013	1.00	112.65	IS9
ATOM	42503	CG	ASP	I	54	241.494	170.932	-24.241	1.00	112.65	IS9
ATOM	42504	OD1	ASP	I	54	242.228	169.952	-24.507	1.00	112.65	IS9
ATOM	42505	OD2	ASP	I	54	240.504	171.252	-24.935	1.00	112.65	IS9
ATOM	42506	C	ASP	I	54	242.329	171.720	-20.552	1.00	97.22	IS9
ATOM	42507	O	ASP	I	54	242.454	172.942	-20.573	1.00	97.22	IS9
ATOM	42508	N	ALA	I	55	242.711	170.964	-19.530	1.00	102.02	IS9
ATOM	42509	CA	ALA	I	55	243.338	171.506	-18.338	1.00	102.02	IS9
ATOM	42510	CB	ALA	I	55	242.436	171.300	-17.131	1.00	108.63	IS9
ATOM	42511	C	ALA	I	55	244.652	170.764	-18.150	1.00	102.02	IS9
ATOM	42512	O	ALA	I	55	245.441	170.653	-19.089	1.00	102.02	IS9
ATOM	42513	N	LEU	I	56	244.873	170.240	-16.947	1.00	168.03	IS9
ATOM	42514	CA	LEU	I	56	246.100	169.513	-16.625	1.00	168.03	IS9
ATOM	42515	CB	LEU	I	56	246.295	168.329	-17.585	1.00	99.69	IS9
ATOM	42516	CG	LEU	I	56	247.041	167.081	-17.083	1.00	99.69	IS9
ATOM	42517	CD1	LEU	I	56	247.264	166.138	-18.258	1.00	99.69	IS9
ATOM	42518	CD2	LEU	I	56	248.374	167.452	-16.444	1.00	99.69	IS9
ATOM	42519	C	LEU	I	56	247.272	170.487	-16.748	1.00	168.03	IS9
ATOM	42520	O	LEU	I	56	247.797	170.968	-15.744	1.00	168.03	IS9
ATOM	42521	N	GLY	I	57	247.669	170.779	-17.984	1.00	138.81	IS9
ATOM	42522	CA	GLY	I	57	248.763	171.705	-18.218	1.00	138.81	IS9
ATOM	42523	C	GLY	I	57	248.308	173.131	-17.980	1.00	138.81	IS9
ATOM	42524	O	GLY	I	57	248.858	174.080	-18.535	1.00	138.81	IS9
ATOM	42525	N	ARG	I	58	247.281	173.275	-17.153	1.00	104.90	IS9
ATOM	42526	CA	ARG	I	58	246.739	174.579	-16.818	1.00	104.90	IS9
ATOM	42527	CB	ARG	I	58	245.409	174.796	-17.543	1.00	102.93	IS9
ATOM	42528	CG	ARG	I	58	245.208	176.214	-18.061	1.00	102.93	IS9
ATOM	42529	CD	ARG	I	58	245.080	177.242	-16.932	1.00	102.93	IS9
ATOM	42530	NE	ARG	I	58	243.699	177.439	-16.494	1.00	102.93	IS9
ATOM	42531	CZ	ARG	I	58	242.721	177.880	-17.281	1.00	102.93	IS9
ATOM	42532	NH1	ARG	I	58	242.960	178.173	-18.555	1.00	102.93	IS9
ATOM	42533	NH2	ARG	I	58	241.499	178.032	-16.792	1.00	102.93	IS9
ATOM	42534	C	ARG	I	58	246.533	174.583	-15.307	1.00	104.90	IS9
ATOM	42535	O	ARG	I	58	246.810	175.576	-14.627	1.00	104.90	IS9
ATOM	42536	N	PHE	I	59	246.053	173.455	-14.789	1.00	100.20	IS9
ATOM	42537	CA	PHE	I	59	245.822	173.294	-13.358	1.00	100.20	IS9
ATOM	42538	CB	PHE	I	59	244.489	172.609	-13.077	1.00	94.46	IS9
ATOM	42539	CG	PHE	I	59	243.310	173.521	-13.125	1.00	94.46	IS9
ATOM	42540	CD1	PHE	I	59	242.781	173.937	-14.346	1.00	94.46	IS9
ATOM	42541	CD2	PHE	I	59	242.702	173.945	-11.946	1.00	94.46	IS9
ATOM	42542	CE1	PHE	I	59	241.656	174.761	-14.395	1.00	94.46	IS9
ATOM	42543	CE2	PHE	I	59	241.578	174.768	-11.981	1.00	94.46	IS9
ATOM	42544	CZ	PHE	I	59	241.051	175.177	-13.212	1.00	94.46	IS9
ATOM	42545	C	PHE	I	59	246.900	172.450	-12.714	1.00	100.20	IS9
ATOM	42546	O	PHE	I	59	247.874	172.052	-13.344	1.00	100.20	IS9
ATOM	42547	N	ASP	I	60	246.689	172.172	-11.439	1.00	77.20	IS9
ATOM	42548	CA	ASP	I	60	247.589	171.362	-10.642	1.00	77.20	IS9
ATOM	42549	CB	ASP	I	60	248.504	172.266	-9.812	1.00	123.79	IS9
ATOM	42550	CG	ASP	I	60	249.870	171.657	-9.576	1.00	123.79	IS9
ATOM	42551	OD1	ASP	I	60	249.928	170.536	-9.033	1.00	123.79	IS9
ATOM	42552	OD2	ASP	I	60	250.883	172.299	-9.932	1.00	123.79	IS9
ATOM	42553	C	ASP	I	60	246.585	170.636	-9.755	1.00	77.20	IS9
ATOM	42554	O	ASP	I	60	245.380	170.897	-9.866	1.00	77.20	IS9
ATOM	42555	N	ALA	I	61	247.040	169.734	-8.887	1.00	78.05	IS9
ATOM	42556	CA	ALA	I	61	246.094	169.029	-8.026	1.00	78.05	IS9
ATOM	42557	CB	ALA	I	61	245.288	168.039	-8.849	1.00	57.28	IS9
ATOM	42558	C	ALA	I	61	246.687	168.318	-6.823	1.00	78.05	IS9
ATOM	42559	O	ALA	I	61	247.547	167.443	-6.954	1.00	78.05	IS9
ATOM	42560	N	TYR	I	62	246.215	168.710	-5.645	1.00	66.85	IS9
ATOM	42561	CA	TYR	I	62	246.647	168.088	-4.403	1.00	66.85	IS9
ATOM	42562	CB	TYR	I	62	246.798	169.123	-3.297	1.00	58.95	IS9
ATOM	42563	CG	TYR	I	62	247.067	168.496	-1.956	1.00	58.95	IS9
ATOM	42564	CD1	TYR	I	62	248.272	167.837	-1.709	1.00	58.95	IS9
ATOM	42565	CE1	TYR	I	62	248.519	167.206	-0.480	1.00	58.95	IS9



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ATOM	42566	CD2	TYR	I	62	246.104	168.518	-0.943	1.00	58.95	IS9
ATOM	42567	CE2	TYR	I	62	246.339	167.891	0.288	1.00	58.95	IS9
ATOM	42568	CZ	TYR	I	62	247.552	167.235	0.511	1.00	58.95	IS9
ATOM	42569	OH	TYR	I	62	247.807	166.606	1.713	1.00	58.95	IS9
ATOM	42570	C	TYR	I	62	245.497	167.154	-4.058	1.00	66.85	IS9
ATOM	42571	O	TYR	I	62	244.340	167.575	-4.113	1.00	66.85	IS9
ATOM	42572	N	ILE	I	63	245.794	165.904	-3.704	1.00	85.95	IS9
ATOM	42573	CA	ILE	I	63	244.728	164.948	-3.398	1.00	85.95	IS9
ATOM	42574	CB	ILE	I	63	244.392	164.092	-4.644	1.00	61.22	IS9
ATOM	42575	CG2	ILE	I	63	243.315	163.076	-4.294	1.00	61.22	IS9
ATOM	42576	CG1	ILE	I	63	243.922	164.987	-5.797	1.00	61.22	IS9
ATOM	42577	CD1	ILE	I	63	243.868	164.285	-7.153	1.00	61.22	IS9
ATOM	42578	C	ILE	I	63	244.946	163.975	-2.233	1.00	85.95	IS9
ATOM	42579	O	ILE	I	63	246.010	163.362	-2.103	1.00	85.95	IS9
ATOM	42580	N	THR	I	64	243.914	163.845	-1.397	1.00	90.95	IS9
ATOM	42581	CA	THR	I	64	243.915	162.914	-0.268	1.00	90.95	IS9
ATOM	42582	CB	THR	I	64	243.358	163.521	1.024	1.00	123.35	IS9
ATOM	42583	OG1	THR	I	64	244.331	164.400	1.594	1.00	123.35	IS9
ATOM	42584	CG2	THR	I	64	243.025	162.419	2.031	1.00	123.35	IS9
ATOM	42585	C	THR	I	64	242.954	161.839	-0.705	1.00	90.95	IS9
ATOM	42586	O	THR	I	64	241.875	162.140	-1.216	1.00	90.95	IS9
ATOM	42587	N	VAL	I	65	243.334	160.588	-0.486	1.00	87.95	IS9
ATOM	42588	CA	VAL	I	65	242.513	159.472	-0.918	1.00	87.95	IS9
ATOM	42589	CB	VAL	I	65	243.091	158.934	-2.258	1.00	43.82	IS9
ATOM	42590	CG1	VAL	I	65	243.727	157.569	-2.070	1.00	43.82	IS9
ATOM	42591	CG2	VAL	I	65	242.020	158.936	-3.317	1.00	43.82	IS9
ATOM	42592	C	VAL	I	65	242.466	158.382	0.152	1.00	87.95	IS9
ATOM	42593	O	VAL	I	65	243.501	157.977	0.675	1.00	87.95	IS9
ATOM	42594	N	ARG	I	66	241.269	157.918	0.497	1.00	66.02	IS9
ATOM	42595	CA	ARG	I	66	241.164	156.868	1.505	1.00	66.02	IS9
ATOM	42596	CB	ARG	I	66	241.309	157.464	2.904	1.00	109.54	IS9
ATOM	42597	CG	ARG	I	66	241.797	156.464	3.942	1.00	109.54	IS9
ATOM	42598	CD	ARG	I	66	241.000	156.564	5.229	1.00	109.54	IS9
ATOM	42599	NE	ARG	I	66	240.847	157.946	5.680	1.00	109.54	IS9
ATOM	42600	CZ	ARG	I	66	241.842	158.722	6.096	1.00	109.54	IS9
ATOM	42601	NH1	ARG	I	66	243.086	158.260	6.128	1.00	109.54	IS9
ATOM	42602	NH2	ARG	I	66	241.591	159.966	6.480	1.00	109.54	IS9
ATOM	42603	C	ARG	I	66	239.872	156.048	1.436	1.00	66.02	IS9
ATOM	42604	O	ARG	I	66	238.785	156.585	1.166	1.00	66.02	IS9
ATOM	42605	N	GLY	I	67	240.013	154.744	1.680	1.00	105.14	IS9
ATOM	42606	CA	GLY	I	67	238.877	153.839	1.667	1.00	105.14	IS9
ATOM	42607	C	GLY	I	67	238.648	153.115	0.353	1.00	105.14	IS9
ATOM	42608	O	GLY	I	67	238.246	153.726	-0.632	1.00	105.14	IS9
ATOM	42609	N	GLY	I	68	238.903	151.809	0.333	1.00	64.72	IS9
ATOM	42610	CA	GLY	I	68	238.695	151.027	-0.875	1.00	64.72	IS9
ATOM	42611	C	GLY	I	68	239.923	150.369	-1.477	1.00	64.72	IS9
ATOM	42612	O	GLY	I	68	240.725	149.740	-0.788	1.00	64.72	IS9
ATOM	42613	N	GLY	I	69	240.048	150.501	-2.791	1.00	67.57	IS9
ATOM	42614	CA	GLY	I	69	241.175	149.933	-3.510	1.00	67.57	IS9
ATOM	42615	C	GLY	I	69	241.601	150.954	-4.544	1.00	67.57	IS9
ATOM	42616	O	GLY	I	69	240.771	151.725	-5.024	1.00	67.57	IS9
ATOM	42617	N	LYS	I	70	242.878	150.959	-4.904	1.00	65.61	IS9
ATOM	42618	CA	LYS	I	70	243.383	151.940	-5.857	1.00	65.61	IS9
ATOM	42619	CB	LYS	I	70	244.838	151.625	-6.227	1.00	75.17	IS9
ATOM	42620	CG	LYS	I	70	245.748	151.670	-5.000	1.00	75.17	IS9
ATOM	42621	CD	LYS	I	70	247.229	151.731	-5.322	1.00	75.17	IS9
ATOM	42622	CE	LYS	I	70	248.032	151.652	-4.023	1.00	75.17	IS9
ATOM	42623	NZ	LYS	I	70	249.516	151.663	-4.189	1.00	75.17	IS9
ATOM	42624	C	LYS	I	70	242.526	152.129	-7.096	1.00	65.61	IS9
ATOM	42625	O	LYS	I	70	242.416	153.247	-7.601	1.00	65.61	IS9
ATOM	42626	N	SER	I	71	241.900	151.061	-7.576	1.00	74.20	IS9
ATOM	42627	CA	SER	I	71	241.041	151.173	-8.751	1.00	74.20	IS9
ATOM	42628	CB	SER	I	71	240.488	149.803	-9.144	1.00	99.08	IS9
ATOM	42629	OG	SER	I	71	239.610	149.915	-10.248	1.00	99.08	IS9
ATOM	42630	C	SER	I	71	239.883	152.135	-8.454	1.00	74.20	IS9
ATOM	42631	O	SER	I	71	239.635	153.071	-9.214	1.00	74.20	IS9
ATOM	42632	N	GLY	I	72	239.184	151.902	-7.343	1.00	82.96	IS9
ATOM	42633	CA	GLY	I	72	238.073	152.764	-6.968	1.00	82.96	IS9
ATOM	42634	C	GLY	I	72	238.522	154.184	-6.659	1.00	82.96	IS9
ATOM	42635	O	GLY	I	72	237.860	155.155	-7.030	1.00	82.96	IS9
ATOM	42636	N	GLN	I	73	239.647	154.302	-5.960	1.00	65.30	IS9
ATOM	42637	CA	GLN	I	73	240.199	155.601	-5.623	1.00	65.30	IS9
ATOM	42638	CB	GLN	I	73	241.511	155.443	-4.862	1.00	51.94	IS9
ATOM	42639	CG	GLN	I	73	241.418	154.453	-3.716	1.00	51.94	IS9
ATOM	42640	CD	GLN	I	73	242.687	154.386	-2.883	1.00	51.94	IS9
ATOM	42641	OE1	GLN	I	73	243.798	154.445	-3.415	1.00	51.94	IS9
ATOM	42642	NE2	GLN	I	73	242.525	154.249	-1.564	1.00	51.94	IS9



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ATOM	42643	C	GLN	I	73	240.452	156.314	-6.939	1.00	65.30	IS9
ATOM	42644	O	GLN	I	73	240.269	157.525	-7.032	1.00	65.30	IS9
ATOM	42645	N	ILE	I	74	240.869	155.563	-7.959	1.00	60.41	IS9
ATOM	42646	CA	ILE	I	74	241.120	156.160	-9.270	1.00	60.41	IS9
ATOM	42647	CB	ILE	I	74	241.576	155.127	-10.323	1.00	45.09	IS9
ATOM	42648	CG2	ILE	I	74	241.508	155.743	-11.724	1.00	45.09	IS9
ATOM	42649	CG1	ILE	I	74	243.004	154.671	-10.017	1.00	45.09	IS9
ATOM	42650	CD1	ILE	I	74	243.490	153.511	-10.866	1.00	45.09	IS9
ATOM	42651	C	ILE	I	74	239.846	156.802	-9.776	1.00	60.41	IS9
ATOM	42652	O	ILE	I	74	239.889	157.872	-10.391	1.00	60.41	IS9
ATOM	42653	N	ASP	I	75	238.716	156.145	-9.518	1.00	67.33	IS9
ATOM	42654	CA	ASP	I	75	237.418	156.663	-9.946	1.00	67.33	IS9
ATOM	42655	CB	ASP	I	75	236.361	155.552	-9.957	1.00	136.55	IS9
ATOM	42656	CG	ASP	I	75	236.431	154.685	-11.201	1.00	136.55	IS9
ATOM	42657	OD1	ASP	I	75	236.446	155.245	-12.319	1.00	136.55	IS9
ATOM	42658	OD2	ASP	I	75	236.460	153.444	-11.061	1.00	136.55	IS9
ATOM	42659	C	ASP	I	75	236.954	157.803	-9.047	1.00	67.33	IS9
ATOM	42660	O	ASP	I	75	236.505	158.845	-9.540	1.00	67.33	IS9
ATOM	42661	N	ALA	I	76	237.060	157.599	-7.733	1.00	60.93	IS9
ATOM	42662	CA	ALA	I	76	236.665	158.616	-6.759	1.00	60.93	IS9
ATOM	42663	CB	ALA	I	76	237.073	158.170	-5.353	1.00	41.42	IS9
ATOM	42664	C	ALA	I	76	237.368	159.921	-7.133	1.00	60.93	IS9
ATOM	42665	O	ALA	I	76	236.733	160.972	-7.303	1.00	60.93	IS9
ATOM	42666	N	ILE	I	77	238.690	159.817	-7.261	1.00	66.38	IS9
ATOM	42667	CA	ILE	I	77	239.560	160.918	-7.642	1.00	66.38	IS9
ATOM	42668	CB	ILE	I	77	240.983	160.398	-7.958	1.00	51.27	IS9
ATOM	42669	CG2	ILE	I	77	241.706	161.361	-8.900	1.00	51.27	IS9
ATOM	42670	CG1	ILE	I	77	241.754	160.167	-6.658	1.00	51.27	IS9
ATOM	42671	CD1	ILE	I	77	243.183	159.729	-6.877	1.00	51.27	IS9
ATOM	42672	C	ILE	I	77	239.010	161.572	-8.899	1.00	66.38	IS9
ATOM	42673	O	ILE	I	77	238.898	162.795	-8.990	1.00	66.38	IS9
ATOM	42674	N	LYS	I	78	238.675	160.738	-9.872	1.00	48.65	IS9
ATOM	42675	CA	LYS	I	78	238.152	161.213	-11.136	1.00	48.65	IS9
ATOM	42676	CB	LYS	I	78	237.942	160.018	-12.069	1.00	87.15	IS9
ATOM	42677	CG	LYS	I	78	237.737	160.381	-13.527	1.00	87.15	IS9
ATOM	42678	CD	LYS	I	78	236.266	160.464	-13.872	1.00	87.15	IS9
ATOM	42679	CE	LYS	I	78	235.586	159.122	-13.638	1.00	87.15	IS9
ATOM	42680	NZ	LYS	I	78	236.252	158.029	-14.399	1.00	87.15	IS9
ATOM	42681	C	LYS	I	78	236.856	162.013	-10.956	1.00	48.65	IS9
ATOM	42682	O	LYS	I	78	236.550	162.902	-11.762	1.00	48.65	IS9
ATOM	42683	N	LEU	I	79	236.104	161.708	-9.897	1.00	81.31	IS9
ATOM	42684	CA	LEU	I	79	234.847	162.412	-9.629	1.00	81.31	IS9
ATOM	42685	CB	LEU	I	79	233.950	161.600	-8.680	1.00	66.44	IS9
ATOM	42686	CG	LEU	I	79	232.496	162.061	-8.443	1.00	66.44	IS9
ATOM	42687	CD1	LEU	I	79	232.482	163.270	-7.538	1.00	66.44	IS9
ATOM	42688	CD2	LEU	I	79	231.800	162.393	-9.764	1.00	66.44	IS9
ATOM	42689	C	LEU	I	79	235.127	163.780	-9.024	1.00	81.31	IS9
ATOM	42690	O	LEU	I	79	234.435	164.757	-9.321	1.00	81.31	IS9
ATOM	42691	N	GLY	I	80	236.140	163.842	-8.167	1.00	86.60	IS9
ATOM	42692	CA	GLY	I	80	236.498	165.106	-7.551	1.00	86.60	IS9
ATOM	42693	C	GLY	I	80	236.932	166.094	-8.614	1.00	86.60	IS9
ATOM	42694	O	GLY	I	80	236.345	167.171	-8.753	1.00	86.60	IS9
ATOM	42695	N	ILE	I	81	237.962	165.719	-9.366	1.00	74.14	IS9
ATOM	42696	CA	ILE	I	81	238.480	166.555	-10.438	1.00	74.14	IS9
ATOM	42697	CB	ILE	I	81	239.490	165.767	-11.299	1.00	62.39	IS9
ATOM	42698	CG2	ILE	I	81	239.870	166.555	-12.543	1.00	62.39	IS9
ATOM	42699	CG1	ILE	I	81	240.726	165.453	-10.459	1.00	62.39	IS9
ATOM	42700	CD1	ILE	I	81	241.788	164.672	-11.206	1.00	62.39	IS9
ATOM	42701	C	ILE	I	81	237.330	167.061	-11.313	1.00	74.14	IS9
ATOM	42702	O	ILE	I	81	237.296	168.231	-11.694	1.00	74.14	IS9
ATOM	42703	N	ALA	I	82	236.384	166.179	-11.617	1.00	114.67	IS9
ATOM	42704	CA	ALA	I	82	235.235	166.552	-12.436	1.00	114.67	IS9
ATOM	42705	CB	ALA	I	82	234.366	165.324	-12.708	1.00	135.42	IS9
ATOM	42706	C	ALA	I	82	234.413	167.646	-11.744	1.00	114.67	IS9
ATOM	42707	O	ALA	I	82	234.001	168.616	-12.377	1.00	114.67	IS9
ATOM	42708	N	ARG	I	83	234.182	167.486	-10.444	1.00	93.07	IS9
ATOM	42709	CA	ARG	I	83	233.419	168.464	-9.679	1.00	93.07	IS9
ATOM	42710	CB	ARG	I	83	233.092	167.910	-8.299	1.00	71.73	IS9
ATOM	42711	CG	ARG	I	83	231.877	167.005	-8.278	1.00	71.73	IS9
ATOM	42712	CD	ARG	I	83	231.727	166.347	-6.913	1.00	71.73	IS9
ATOM	42713	NE	ARG	I	83	230.381	165.825	-6.688	1.00	71.73	IS9
ATOM	42714	CZ	ARG	I	83	230.036	165.126	-5.615	1.00	71.73	IS9
ATOM	42715	NH1	ARG	I	83	230.950	164.865	-4.687	1.00	71.73	IS9
ATOM	42716	NH2	ARG	I	83	228.780	164.717	-5.459	1.00	71.73	IS9
ATOM	42717	C	ARG	I	83	234.165	169.782	-9.527	1.00	93.07	IS9
ATOM	42718	O	ARG	I	83	233.631	170.845	-9.856	1.00	93.07	IS9
ATOM	42719	N	ALA	I	84	235.392	169.714	-9.016	1.00	82.77	IS9



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ATOM	42720	CA	ALA	I	84	236.202	170.912	-8.838	1.00	82.77	IS9
ATOM	42721	CB	ALA	I	84	237.644	170.538	-8.574	1.00	49.18	IS9
ATOM	42722	C	ALA	I	84	236.108	171.774	-10.085	1.00	82.77	IS9
ATOM	42723	O	ALA	I	84	235.699	172.928	-10.013	1.00	82.77	IS9
ATOM	42724	N	LEU	I	85	236.476	171.209	-11.229	1.00	72.58	IS9
ATOM	42725	CA	LEU	I	85	236.410	171.942	-12.484	1.00	72.58	IS9
ATOM	42726	CB	LEU	I	85	236.605	170.999	-13.678	1.00	102.79	IS9
ATOM	42727	CG	LEU	I	85	238.023	170.836	-14.239	1.00	102.79	IS9
ATOM	42728	CD1	LEU	I	85	238.882	170.022	-13.292	1.00	102.79	IS9
ATOM	42729	CD2	LEU	I	85	237.947	170.153	-15.598	1.00	102.79	IS9
ATOM	42730	C	LEU	I	85	235.091	172.704	-12.652	1.00	72.58	IS9
ATOM	42731	O	LEU	I	85	235.041	173.705	-13.371	1.00	72.58	IS9
ATOM	42732	N	VAL	I	86	234.022	172.243	-12.001	1.00	109.26	IS9
ATOM	42733	CA	VAL	I	86	232.737	172.932	-12.110	1.00	109.26	IS9
ATOM	42734	CB	VAL	I	86	231.546	171.941	-12.084	1.00	76.65	IS9
ATOM	42735	CG1	VAL	I	86	230.235	172.699	-11.933	1.00	76.65	IS9
ATOM	42736	CG2	VAL	I	86	231.513	171.152	-13.393	1.00	76.65	IS9
ATOM	42737	C	VAL	I	86	232.568	174.006	-11.033	1.00	109.26	IS9
ATOM	42738	O	VAL	I	86	231.920	175.025	-11.269	1.00	109.26	IS9
ATOM	42739	N	GLN	I	87	233.133	173.791	-9.849	1.00	105.46	IS9
ATOM	42740	CA	GLN	I	87	233.047	174.826	-8.829	1.00	105.46	IS9
ATOM	42741	CB	GLN	I	87	233.689	174.385	-7.513	1.00	113.51	IS9
ATOM	42742	CG	GLN	I	87	232.754	173.638	-6.581	1.00	113.51	IS9
ATOM	42743	CD	GLN	I	87	233.087	173.886	-5.121	1.00	113.51	IS9
ATOM	42744	OE1	GLN	I	87	234.220	173.681	-4.687	1.00	113.51	IS9
ATOM	42745	NE2	GLN	I	87	232.097	174.332	-4.356	1.00	113.51	IS9
ATOM	42746	C	GLN	I	87	233.842	175.980	-9.421	1.00	105.46	IS9
ATOM	42747	O	GLN	I	87	233.346	177.102	-9.529	1.00	105.46	IS9
ATOM	42748	N	TYR	I	88	235.080	175.682	-9.810	1.00	105.64	IS9
ATOM	42749	CA	TYR	I	88	235.962	176.660	-10.437	1.00	105.64	IS9
ATOM	42750	CB	TYR	I	88	237.111	175.941	-11.148	1.00	106.70	IS9
ATOM	42751	CG	TYR	I	88	237.886	176.805	-12.113	1.00	106.70	IS9
ATOM	42752	CD1	TYR	I	88	238.901	177.646	-11.669	1.00	106.70	IS9
ATOM	42753	CE1	TYR	I	88	239.594	178.467	-12.549	1.00	106.70	IS9
ATOM	42754	CD2	TYR	I	88	237.579	176.803	-13.473	1.00	106.70	IS9
ATOM	42755	CE2	TYR	I	88	238.260	177.619	-14.365	1.00	106.70	IS9
ATOM	42756	CZ	TYR	I	88	239.267	178.451	-13.898	1.00	106.70	IS9
ATOM	42757	OH	TYR	I	88	239.930	179.277	-14.779	1.00	106.70	IS9
ATOM	42758	C	TYR	I	88	235.131	177.435	-11.448	1.00	105.64	IS9
ATOM	42759	O	TYR	I	88	234.835	178.610	-11.253	1.00	105.64	IS9
ATOM	42760	N	ASN	I	89	234.759	176.763	-12.530	1.00	70.46	IS9
ATOM	42761	CA	ASN	I	89	233.933	177.371	-13.555	1.00	70.46	IS9
ATOM	42762	CB	ASN	I	89	234.694	177.479	-14.877	1.00	70.18	IS9
ATOM	42763	CG	ASN	I	89	233.799	177.918	-16.027	1.00	70.18	IS9
ATOM	42764	OD1	ASN	I	89	232.698	178.429	-15.810	1.00	70.18	IS9
ATOM	42765	ND2	ASN	I	89	234.271	177.728	-17.256	1.00	70.18	IS9
ATOM	42766	C	ASN	I	89	232.714	176.480	-13.732	1.00	70.46	IS9
ATOM	42767	O	ASN	I	89	232.799	175.421	-14.348	1.00	70.46	IS9
ATOM	42768	N	PRO	I	90	231.557	176.902	-13.200	1.00	113.66	IS9
ATOM	42769	CD	PRO	I	90	231.246	178.269	-12.750	1.00	91.09	IS9
ATOM	42770	CA	PRO	I	90	230.328	176.112	-13.312	1.00	113.66	IS9
ATOM	42771	CB	PRO	I	90	229.289	177.010	-12.655	1.00	91.09	IS9
ATOM	42772	CG	PRO	I	90	229.764	178.369	-13.050	1.00	91.09	IS9
ATOM	42773	C	PRO	I	90	229.980	175.799	-14.757	1.00	113.66	IS9
ATOM	42774	O	PRO	I	90	229.352	174.783	-15.049	1.00	113.66	IS9
ATOM	42775	N	ASP	I	91	230.408	176.681	-15.654	1.00	90.46	IS9
ATOM	42776	CA	ASP	I	91	230.144	176.545	-17.081	1.00	90.46	IS9
ATOM	42777	CB	ASP	I	91	230.714	177.755	-17.819	1.00	134.37	IS9
ATOM	42778	CG	ASP	I	91	230.124	179.060	-17.333	1.00	134.37	IS9
ATOM	42779	OD1	ASP	I	91	230.105	179.285	-16.102	1.00	134.37	IS9
ATOM	42780	OD2	ASP	I	91	229.684	179.860	-18.185	1.00	134.37	IS9
ATOM	42781	C	ASP	I	91	230.677	175.265	-17.724	1.00	90.46	IS9
ATOM	42782	O	ASP	I	91	230.491	175.049	-18.925	1.00	90.46	IS9
ATOM	42783	N	TYR	I	92	231.334	174.416	-16.940	1.00	99.09	IS9
ATOM	42784	CA	TYR	I	92	231.874	173.170	-17.474	1.00	99.09	IS9
ATOM	42785	CB	TYR	I	92	233.036	172.687	-16.603	1.00	100.43	IS9
ATOM	42786	CG	TYR	I	92	234.326	173.438	-16.852	1.00	100.43	IS9
ATOM	42787	CD1	TYR	I	92	235.469	173.166	-16.101	1.00	100.43	IS9
ATOM	42788	CE1	TYR	I	92	236.656	173.861	-16.319	1.00	100.43	IS9
ATOM	42789	CD2	TYR	I	92	234.404	174.425	-17.838	1.00	100.43	IS9
ATOM	42790	CE2	TYR	I	92	235.586	175.122	-18.065	1.00	100.43	IS9
ATOM	42791	CZ	TYR	I	92	236.705	174.836	-17.300	1.00	100.43	IS9
ATOM	42792	OH	TYR	I	92	237.868	175.536	-17.505	1.00	100.43	IS9
ATOM	42793	C	TYR	I	92	230.840	172.052	-17.644	1.00	99.09	IS9
ATOM	42794	O	TYR	I	92	230.917	171.278	-18.604	1.00	99.09	IS9
ATOM	42795	N	ARG	I	93	229.885	171.965	-16.717	1.00	79.29	IS9
ATOM	42796	CA	ARG	I	93	228.835	170.950	-16.798	1.00	79.29	IS9



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ATOM	42797	CB	ARG	I	93	227.607	171.365	-15.983	1.00115.42	IS9
ATOM	42798	CG	ARG	I	93	227.857	171.510	-14.509	1.00115.42	IS9
ATOM	42799	CD	ARG	I	93	226.567	171.362	-13.733	1.00115.42	IS9
ATOM	42800	NE	ARG	I	93	226.836	171.235	-12.304	1.00115.42	IS9
ATOM	42801	CZ	ARG	I	93	225.989	170.715	-11.419	1.00115.42	IS9
ATOM	42802	NH1	ARG	I	93	224.804	170.265	-11.816	1.00115.42	IS9
ATOM	42803	NH2	ARG	I	93	226.331	170.639	-10.138	1.00115.42	IS9
ATOM	42804	C	ARG	I	93	228.405	170.758	-18.245	1.00 79.29	IS9
ATOM	42805	O	ARG	I	93	228.340	169.637	-18.739	1.00 79.29	IS9
ATOM	42806	N	ALA	I	94	228.121	171.870	-18.915	1.00 82.23	IS9
ATOM	42807	CA	ALA	I	94	227.678	171.870	-20.304	1.00 82.23	IS9
ATOM	42808	CB	ALA	I	94	227.763	173.276	-20.871	1.00 92.82	IS9
ATOM	42809	C	ALA	I	94	228.443	170.909	-21.199	1.00 82.23	IS9
ATOM	42810	O	ALA	I	94	227.885	170.388	-22.166	1.00 82.23	IS9
ATOM	42811	N	LYS	I	95	229.715	170.677	-20.884	1.00 96.98	IS9
ATOM	42812	CA	LYS	I	95	230.540	169.774	-21.678	1.00 96.98	IS9
ATOM	42813	CB	LYS	I	95	231.694	170.543	-22.321	1.00148.52	IS9
ATOM	42814	CG	LYS	I	95	231.672	170.516	-23.839	1.00148.52	IS9
ATOM	42815	CD	LYS	I	95	231.720	169.087	-24.367	1.00148.52	IS9
ATOM	42816	CE	LYS	I	95	231.675	169.055	-25.889	1.00148.52	IS9
ATOM	42817	NZ	LYS	I	95	231.755	167.667	-26.429	1.00148.52	IS9
ATOM	42818	C	LYS	I	95	231.096	168.623	-20.850	1.00 96.98	IS9
ATOM	42819	O	LYS	I	95	231.443	167.569	-21.383	1.00 96.98	IS9
ATOM	42820	N	LEU	I	96	231.165	168.826	-19.543	1.00106.29	IS9
ATOM	42821	CA	LEU	I	96	231.691	167.816	-18.639	1.00106.29	IS9
ATOM	42822	CB	LEU	I	96	232.159	168.495	-17.351	1.00 95.87	IS9
ATOM	42823	CG	LEU	I	96	233.101	167.715	-16.438	1.00 95.87	IS9
ATOM	42824	CD1	LEU	I	96	234.366	167.361	-17.191	1.00 95.87	IS9
ATOM	42825	CD2	LEU	I	96	233.440	168.557	-15.228	1.00 95.87	IS9
ATOM	42826	C	LEU	I	96	230.679	166.707	-18.318	1.00106.29	IS9
ATOM	42827	O	LEU	I	96	231.062	165.551	-18.137	1.00106.29	IS9
ATOM	42828	N	LYS	I	97	229.394	167.059	-18.253	1.00 95.39	IS9
ATOM	42829	CA	LYS	I	97	228.338	166.090	-17.947	1.00 95.39	IS9
ATOM	42830	CB	LYS	I	97	227.039	166.798	-17.553	1.00197.98	IS9
ATOM	42831	CG	LYS	I	97	227.061	167.375	-16.160	1.00197.98	IS9
ATOM	42832	CD	LYS	I	97	225.671	167.750	-15.680	1.00197.98	IS9
ATOM	42833	CE	LYS	I	97	225.718	168.197	-14.228	1.00197.98	IS9
ATOM	42834	NZ	LYS	I	97	224.376	168.466	-13.661	1.00197.98	IS9
ATOM	42835	C	LYS	I	97	228.029	165.108	-19.067	1.00 95.39	IS9
ATOM	42836	O	LYS	I	97	227.880	163.916	-18.818	1.00 95.39	IS9
ATOM	42837	N	PRO	I	98	227.905	165.597	-20.314	1.00 96.16	IS9
ATOM	42838	CD	PRO	I	98	227.885	167.006	-20.747	1.00109.14	IS9
ATOM	42839	CA	PRO	I	98	227.608	164.716	-21.446	1.00 96.16	IS9
ATOM	42840	CB	PRO	I	98	227.775	165.641	-22.642	1.00109.14	IS9
ATOM	42841	CG	PRO	I	98	227.217	166.920	-22.111	1.00109.14	IS9
ATOM	42842	C	PRO	I	98	228.491	163.474	-21.527	1.00 96.16	IS9
ATOM	42843	O	PRO	I	98	228.166	162.524	-22.235	1.00 96.16	IS9
ATOM	42844	N	LEU	I	99	229.605	163.477	-20.801	1.00 79.71	IS9
ATOM	42845	CA	LEU	I	99	230.509	162.328	-20.786	1.00 79.71	IS9
ATOM	42846	CB	LEU	I	99	231.963	162.783	-20.960	1.00105.08	IS9
ATOM	42847	CG	LEU	I	99	232.351	163.304	-22.345	1.00105.08	IS9
ATOM	42848	CD1	LEU	I	99	232.085	162.203	-23.366	1.00105.08	IS9
ATOM	42849	CD2	LEU	I	99	231.562	164.569	-22.691	1.00105.08	IS9
ATOM	42850	C	LEU	I	99	230.365	161.564	-19.474	1.00 79.71	IS9
ATOM	42851	O	LEU	I	99	231.147	160.662	-19.186	1.00 79.71	IS9
ATOM	42852	N	GLY	I	100	229.351	161.929	-18.692	1.00 80.84	IS9
ATOM	42853	CA	GLY	I	100	229.107	161.290	-17.409	1.00 80.84	IS9
ATOM	42854	C	GLY	I	100	229.818	162.060	-16.320	1.00 80.84	IS9
ATOM	42855	O	GLY	I	100	229.321	163.071	-15.833	1.00 80.84	IS9
ATOM	42856	N	PHE	I	101	230.993	161.562	-15.953	1.00 97.06	IS9
ATOM	42857	CA	PHE	I	101	231.860	162.166	-14.947	1.00 97.06	IS9
ATOM	42858	CB	PHE	I	101	232.642	163.318	-15.577	1.00 80.64	IS9
ATOM	42859	CG	PHE	I	101	233.624	162.880	-16.627	1.00 80.64	IS9
ATOM	42860	CD1	PHE	I	101	233.613	163.461	-17.895	1.00 80.64	IS9
ATOM	42861	CD2	PHE	I	101	234.570	161.904	-16.344	1.00 80.64	IS9
ATOM	42862	CE1	PHE	I	101	234.534	163.078	-18.869	1.00 80.64	IS9
ATOM	42863	CE2	PHE	I	101	235.492	161.513	-17.304	1.00 80.64	IS9
ATOM	42864	CZ	PHE	I	101	235.475	162.103	-18.574	1.00 80.64	IS9
ATOM	42865	C	PHE	I	101	231.192	162.654	-13.671	1.00 97.06	IS9
ATOM	42866	O	PHE	I	101	231.545	162.219	-12.577	1.00 97.06	IS9
ATOM	42867	N	LEU	I	102	230.243	163.570	-13.805	1.00101.33	IS9
ATOM	42868	CA	LEU	I	102	229.555	164.109	-12.643	1.00101.33	IS9
ATOM	42869	CB	LEU	I	102	228.831	165.411	-13.010	1.00 86.25	IS9
ATOM	42870	CG	LEU	I	102	229.728	166.626	-13.292	1.00 86.25	IS9
ATOM	42871	CD1	LEU	I	102	228.864	167.825	-13.603	1.00 86.25	IS9
ATOM	42872	CD2	LEU	I	102	230.618	166.930	-12.084	1.00 86.25	IS9
ATOM	42873	C	LEU	I	102	228.574	163.122	-12.029	1.00101.33	IS9



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ATOM	42874	O	LEU	I	102	227.766	163.496	-11.188	1.00101.33	IS9
ATOM	42875	N	THR	I	103	228.655	161.861	-12.438	1.00 72.31	IS9
ATOM	42876	CA	THR	I	103	227.761	160.825	-11.920	1.00 72.31	IS9
ATOM	42877	CB	THR	I	103	227.272	159.896	-13.050	1.00 59.95	IS9
ATOM	42878	OG1	THR	I	103	226.695	160.675	-14.105	1.00 59.95	IS9
ATOM	42879	CG2	THR	I	103	226.245	158.915	-12.521	1.00 59.95	IS9
ATOM	42880	C	THR	I	103	228.483	159.956	-10.901	1.00 72.31	IS9
ATOM	42881	O	THR	I	103	229.569	159.459	-11.176	1.00 72.31	IS9
ATOM	42882	N	ARG	I	104	227.890	159.761	-9.732	1.00 94.95	IS9
ATOM	42883	CA	ARG	I	104	228.528	158.921	-8.729	1.00 94.95	IS9
ATOM	42884	CB	ARG	I	104	228.151	159.388	-7.325	1.00 72.41	IS9
ATOM	42885	CG	ARG	I	104	229.072	158.867	-6.237	1.00 72.41	IS9
ATOM	42886	CD	ARG	I	104	228.682	157.493	-5.762	1.00 72.41	IS9
ATOM	42887	NE	ARG	I	104	229.743	156.885	-4.968	1.00 72.41	IS9
ATOM	42888	CZ	ARG	I	104	229.535	156.010	-3.989	1.00 72.41	IS9
ATOM	42889	NH1	ARG	I	104	228.298	155.649	-3.680	1.00 72.41	IS9
ATOM	42890	NH2	ARG	I	104	230.557	155.479	-3.328	1.00 72.41	IS9
ATOM	42891	C	ARG	I	104	228.054	157.490	-8.956	1.00 94.95	IS9
ATOM	42892	O	ARG	I	104	226.930	157.145	-8.592	1.00 94.95	IS9
ATOM	42893	N	ASP	I	105	228.909	156.666	-9.565	1.00106.75	IS9
ATOM	42894	CA	ASP	I	105	228.572	155.272	-9.864	1.00106.75	IS9
ATOM	42895	CB	ASP	I	105	229.791	154.543	-10.432	1.00136.89	IS9
ATOM	42896	CG	ASP	I	105	229.435	153.198	-11.032	1.00136.89	IS9
ATOM	42897	OD1	ASP	I	105	229.113	152.266	-10.264	1.00136.89	IS9
ATOM	42898	OD2	ASP	I	105	229.468	153.075	-12.275	1.00136.89	IS9
ATOM	42899	C	ASP	I	105	228.031	154.528	-8.641	1.00106.75	IS9
ATOM	42900	O	ASP	I	105	228.755	154.285	-7.664	1.00106.75	IS9
ATOM	42901	N	ALA	I	106	226.753	154.157	-8.731	1.00 61.52	IS9
ATOM	42902	CA	ALA	I	106	226.021	153.476	-7.663	1.00 61.52	IS9
ATOM	42903	CB	ALA	I	106	224.539	153.581	-7.952	1.00 51.89	IS9
ATOM	42904	C	ALA	I	106	226.382	152.014	-7.366	1.00 61.52	IS9
ATOM	42905	O	ALA	I	106	226.025	151.486	-6.303	1.00 61.52	IS9
ATOM	42906	N	ARG	I	107	227.081	151.369	-8.298	1.00 50.85	IS9
ATOM	42907	CA	ARG	I	107	227.481	149.972	-8.151	1.00 50.85	IS9
ATOM	42908	CB	ARG	I	107	228.269	149.538	-9.386	1.00 79.50	IS9
ATOM	42909	CG	ARG	I	107	227.485	149.701	-10.678	1.00 79.50	IS9
ATOM	42910	CD	ARG	I	107	228.216	149.078	-11.836	1.00 79.50	IS9
ATOM	42911	NE	ARG	I	107	229.485	149.753	-12.066	1.00 79.50	IS9
ATOM	42912	CZ	ARG	I	107	230.536	149.189	-12.652	1.00 79.50	IS9
ATOM	42913	NH1	ARG	I	107	230.471	147.929	-13.069	1.00 79.50	IS9
ATOM	42914	NH2	ARG	I	107	231.656	149.885	-12.817	1.00 79.50	IS9
ATOM	42915	C	ARG	I	107	228.285	149.700	-6.881	1.00 50.85	IS9
ATOM	42916	O	ARG	I	107	229.387	150.218	-6.704	1.00 50.85	IS9
ATOM	42917	N	VAL	I	108	227.717	148.890	-5.997	1.00 56.61	IS9
ATOM	42918	CA	VAL	I	108	228.359	148.541	-4.733	1.00 56.61	IS9
ATOM	42919	CB	VAL	I	108	227.686	149.273	-3.561	1.00 44.61	IS9
ATOM	42920	CG1	VAL	I	108	228.152	148.696	-2.235	1.00 44.61	IS9
ATOM	42921	CG2	VAL	I	108	228.001	150.749	-3.639	1.00 44.61	IS9
ATOM	42922	C	VAL	I	108	228.270	147.043	-4.479	1.00 56.61	IS9
ATOM	42923	O	VAL	I	108	227.354	146.380	-4.961	1.00 56.61	IS9
ATOM	42924	N	VAL	I	109	229.224	146.511	-3.724	1.00 58.51	IS9
ATOM	42925	CA	VAL	I	109	229.236	145.092	-3.405	1.00 58.51	IS9
ATOM	42926	CB	VAL	I	109	230.292	144.767	-2.352	1.00 64.47	IS9
ATOM	42927	CG1	VAL	I	109	229.993	143.429	-1.716	1.00 64.47	IS9
ATOM	42928	CG2	VAL	I	109	231.658	144.730	-2.999	1.00 64.47	IS9
ATOM	42929	C	VAL	I	109	227.892	144.668	-2.854	1.00 58.51	IS9
ATOM	42930	O	VAL	I	109	227.364	145.317	-1.948	1.00 58.51	IS9
ATOM	42931	N	GLU	I	110	227.355	143.572	-3.391	1.00 77.53	IS9
ATOM	42932	CA	GLU	I	110	226.061	143.044	-2.965	1.00 77.53	IS9
ATOM	42933	CB	GLU	I	110	225.400	142.291	-4.111	1.00 89.27	IS9
ATOM	42934	CG	GLU	I	110	224.078	141.686	-3.731	1.00 89.27	IS9
ATOM	42935	CD	GLU	I	110	223.299	141.218	-4.936	1.00 89.27	IS9
ATOM	42936	OE1	GLU	I	110	223.060	142.048	-5.843	1.00 89.27	IS9
ATOM	42937	OE2	GLU	I	110	222.928	140.025	-4.978	1.00 89.27	IS9
ATOM	42938	C	GLU	I	110	226.144	142.136	-1.736	1.00 77.53	IS9
ATOM	42939	O	GLU	I	110	226.995	141.248	-1.648	1.00 77.53	IS9
ATOM	42940	N	ARG	I	111	225.241	142.378	-0.793	1.00 65.81	IS9
ATOM	42941	CA	ARG	I	111	225.169	141.636	0.457	1.00 65.81	IS9
ATOM	42942	CB	ARG	I	111	223.905	142.073	1.211	1.00 93.91	IS9
ATOM	42943	CG	ARG	I	111	223.605	141.328	2.495	1.00 93.91	IS9
ATOM	42944	CD	ARG	I	111	223.012	139.970	2.198	1.00 93.91	IS9
ATOM	42945	NE	ARG	I	111	222.582	139.281	3.405	1.00 93.91	IS9
ATOM	42946	CZ	ARG	I	111	221.605	139.710	4.195	1.00 93.91	IS9
ATOM	42947	NH1	ARG	I	111	220.955	140.834	3.899	1.00 93.91	IS9
ATOM	42948	NH2	ARG	I	111	221.276	139.010	5.276	1.00 93.91	IS9
ATOM	42949	C	ARG	I	111	225.172	140.126	0.235	1.00 65.81	IS9
ATOM	42950	O	ARG	I	111	224.567	139.641	-0.717	1.00 65.81	IS9



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ATOM	42951	N	LYS	I	112	225.852	139.393	1.118	1.00	36.21	IS9
ATOM	42952	CA	LYS	I	112	225.927	137.932	1.037	1.00	36.21	IS9
ATOM	42953	CB	LYS	I	112	227.232	137.448	1.665	1.00	53.89	IS9
ATOM	42954	CG	LYS	I	112	227.512	135.956	1.505	1.00	53.89	IS9
ATOM	42955	CD	LYS	I	112	226.684	135.096	2.421	1.00	53.89	IS9
ATOM	42956	CE	LYS	I	112	226.978	133.623	2.180	1.00	53.89	IS9
ATOM	42957	NZ	LYS	I	112	226.197	132.723	3.092	1.00	53.89	IS9
ATOM	42958	C	LYS	I	112	224.745	137.272	1.758	1.00	36.21	IS9
ATOM	42959	O	LYS	I	112	224.819	136.995	2.956	1.00	36.21	IS9
ATOM	42960	N	LYS	I	113	223.662	137.015	1.025	1.00	43.14	IS9
ATOM	42961	CA	LYS	I	113	222.465	136.398	1.600	1.00	43.14	IS9
ATOM	42962	CB	LYS	I	113	221.289	136.476	0.633	1.00	49.09	IS9
ATOM	42963	CG	LYS	I	113	220.992	137.864	0.132	1.00	49.09	IS9
ATOM	42964	CD	LYS	I	113	221.702	138.103	-1.175	1.00	49.09	IS9
ATOM	42965	CE	LYS	I	113	221.127	139.314	-1.897	1.00	49.09	IS9
ATOM	42966	NZ	LYS	I	113	221.403	139.256	-3.366	1.00	49.09	IS9
ATOM	42967	C	LYS	I	113	222.673	134.948	1.956	1.00	43.14	IS9
ATOM	42968	O	LYS	I	113	223.226	134.190	1.175	1.00	43.14	IS9
ATOM	42969	N	TYR	I	114	222.209	134.565	3.138	1.00	71.18	IS9
ATOM	42970	CA	TYR	I	114	222.327	133.189	3.603	1.00	71.18	IS9
ATOM	42971	CB	TYR	I	114	221.715	133.059	4.996	1.00	64.78	IS9
ATOM	42972	CG	TYR	I	114	220.251	133.428	5.036	1.00	64.78	IS9
ATOM	42973	CD1	TYR	I	114	219.268	132.474	4.811	1.00	64.78	IS9
ATOM	42974	CE1	TYR	I	114	217.918	132.811	4.859	1.00	64.78	IS9
ATOM	42975	CD2	TYR	I	114	219.850	134.737	5.303	1.00	64.78	IS9
ATOM	42976	CE2	TYR	I	114	218.506	135.083	5.349	1.00	64.78	IS9
ATOM	42977	CZ	TYR	I	114	217.543	134.116	5.130	1.00	64.78	IS9
ATOM	42978	OH	TYR	I	114	216.205	134.446	5.200	1.00	64.78	IS9
ATOM	42979	C	TYR	I	114	221.577	132.309	2.619	1.00	71.18	IS9
ATOM	42980	O	TYR	I	114	220.695	132.783	1.896	1.00	71.18	IS9
ATOM	42981	N	GLY	I	115	221.927	131.030	2.596	1.00	48.17	IS9
ATOM	42982	CA	GLY	I	115	221.280	130.117	1.676	1.00	48.17	IS9
ATOM	42983	C	GLY	I	115	222.179	129.950	0.473	1.00	48.17	IS9
ATOM	42984	O	GLY	I	115	222.423	128.838	0.027	1.00	48.17	IS9
ATOM	42985	N	LYS	I	116	222.670	131.072	-0.041	1.00	51.39	IS9
ATOM	42986	CA	LYS	I	116	223.566	131.087	-1.185	1.00	51.39	IS9
ATOM	42987	CB	LYS	I	116	223.385	132.371	-1.989	1.00	57.09	IS9
ATOM	42988	CG	LYS	I	116	221.954	132.706	-2.309	1.00	57.09	IS9
ATOM	42989	CD	LYS	I	116	221.316	131.635	-3.149	1.00	57.09	IS9
ATOM	42990	CE	LYS	I	116	220.328	132.250	-4.115	1.00	57.09	IS9
ATOM	42991	NZ	LYS	I	116	219.852	131.279	-5.138	1.00	57.09	IS9
ATOM	42992	C	LYS	I	116	225.004	131.044	-0.677	1.00	51.39	IS9
ATOM	42993	O	LYS	I	116	225.266	131.180	0.524	1.00	51.39	IS9
ATOM	42994	N	HIS	I	117	225.935	130.865	-1.608	1.00	52.49	IS9
ATOM	42995	CA	HIS	I	117	227.349	130.822	-1.280	1.00	52.49	IS9
ATOM	42996	CB	HIS	I	117	228.094	129.904	-2.237	1.00	61.29	IS9
ATOM	42997	CG	HIS	I	117	228.057	128.465	-1.845	1.00	61.29	IS9
ATOM	42998	CD2	HIS	I	117	227.463	127.397	-2.426	1.00	61.29	IS9
ATOM	42999	ND1	HIS	I	117	228.715	127.980	-0.734	1.00	61.29	IS9
ATOM	43000	CE1	HIS	I	117	228.532	126.675	-0.650	1.00	61.29	IS9
ATOM	43001	NE2	HIS	I	117	227.776	126.296	-1.665	1.00	61.29	IS9
ATOM	43002	C	HIS	I	117	227.933	132.201	-1.412	1.00	52.49	IS9
ATOM	43003	O	HIS	I	117	228.972	132.484	-0.840	1.00	52.49	IS9
ATOM	43004	N	LYS	I	118	227.258	133.068	-2.152	1.00	62.69	IS9
ATOM	43005	CA	LYS	I	118	227.794	134.397	-2.384	1.00	62.69	IS9
ATOM	43006	CB	LYS	I	118	228.887	134.319	-3.465	1.00	41.16	IS9
ATOM	43007	CG	LYS	I	118	230.114	133.498	-3.111	1.00	41.16	IS9
ATOM	43008	CD	LYS	I	118	231.048	133.241	-4.310	1.00	41.16	IS9
ATOM	43009	CE	LYS	I	118	231.444	134.523	-5.062	1.00	41.16	IS9
ATOM	43010	NZ	LYS	I	118	230.290	135.128	-5.805	1.00	41.16	IS9
ATOM	43011	C	LYS	I	118	226.772	135.431	-2.839	1.00	62.69	IS9
ATOM	43012	O	LYS	I	118	227.030	136.140	-3.815	1.00	62.69	IS9
ATOM	43013	N	ALA	I	119	225.631	135.543	-2.174	1.00	62.11	IS9
ATOM	43014	CA	ALA	I	119	224.646	136.534	-2.613	1.00	62.11	IS9
ATOM	43015	CB	ALA	I	119	225.336	137.829	-3.002	1.00	32.73	IS9
ATOM	43016	C	ALA	I	119	223.807	136.032	-3.789	1.00	62.11	IS9
ATOM	43017	O	ALA	I	119	222.598	136.279	-3.855	1.00	62.11	IS9
ATOM	43018	N	ARG	I	120	224.450	135.367	-4.742	1.00	43.81	IS9
ATOM	43019	CA	ARG	I	120	223.718	134.795	-5.862	1.00	43.81	IS9
ATOM	43020	CB	ARG	I	120	223.806	135.701	-7.092	1.00	42.46	IS9
ATOM	43021	CG	ARG	I	120	223.031	136.987	-6.904	1.00	42.46	IS9
ATOM	43022	CD	ARG	I	120	222.775	137.737	-8.203	1.00	42.46	IS9
ATOM	43023	NE	ARG	I	120	222.434	139.135	-7.914	1.00	42.46	IS9
ATOM	43024	CZ	ARG	I	120	222.043	140.045	-8.811	1.00	42.46	IS9
ATOM	43025	NH1	ARG	I	120	221.920	139.732	-10.102	1.00	42.46	IS9
ATOM	43026	NH2	ARG	I	120	221.788	141.288	-8.417	1.00	42.46	IS9
ATOM	43027	C	ARG	I	120	224.209	133.375	-6.161	1.00	43.81	IS9



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ATOM	43028	O	ARG	I	120	223.405	132.467	-6.398	1.00	43.81	IS9
ATOM	43029	N	ARG	I	121	225.522	133.179	-6.117	1.00	46.92	IS9
ATOM	43030	CA	ARG	I	121	226.093	131.863	-6.359	1.00	46.92	IS9
ATOM	43031	CB	ARG	I	121	227.585	131.863	-6.006	1.00	67.94	IS9
ATOM	43032	CG	ARG	I	121	228.359	130.656	-6.513	1.00	67.94	IS9
ATOM	43033	CD	ARG	I	121	227.993	129.403	-5.744	1.00	67.94	IS9
ATOM	43034	NE	ARG	I	121	228.661	128.201	-6.247	1.00	67.94	IS9
ATOM	43035	CZ	ARG	I	121	228.556	127.738	-7.493	1.00	67.94	IS9
ATOM	43036	NH1	ARG	I	121	227.811	128.375	-8.392	1.00	67.94	IS9
ATOM	43037	NH2	ARG	I	121	229.184	126.621	-7.838	1.00	67.94	IS9
ATOM	43038	C	ARG	I	121	225.337	130.897	-5.461	1.00	46.92	IS9
ATOM	43039	O	ARG	I	121	225.549	130.868	-4.253	1.00	46.92	IS9
ATOM	43040	N	ALA	I	122	224.437	130.120	-6.048	1.00	40.23	IS9
ATOM	43041	CA	ALA	I	122	223.653	129.167	-5.275	1.00	40.23	IS9
ATOM	43042	CB	ALA	I	122	222.278	129.027	-5.892	1.00	69.12	IS9
ATOM	43043	C	ALA	I	122	224.341	127.808	-5.223	1.00	40.23	IS9
ATOM	43044	O	ALA	I	122	224.944	127.379	-6.204	1.00	40.23	IS9
ATOM	43045	N	PRO	I	123	224.267	127.114	-4.077	1.00	49.83	IS9
ATOM	43046	CD	PRO	I	123	223.442	127.450	-2.911	1.00	20.94	IS9
ATOM	43047	CA	PRO	I	123	224.887	125.789	-3.912	1.00	49.83	IS9
ATOM	43048	CB	PRO	I	123	224.529	125.412	-2.469	1.00	20.94	IS9
ATOM	43049	CG	PRO	I	123	223.219	126.074	-2.278	1.00	20.94	IS9
ATOM	43050	C	PRO	I	123	224.295	124.815	-4.929	1.00	49.83	IS9
ATOM	43051	O	PRO	I	123	223.141	124.973	-5.330	1.00	49.83	IS9
ATOM	43052	N	GLN	I	124	225.066	123.813	-5.348	1.00	68.61	IS9
ATOM	43053	CA	GLN	I	124	224.557	122.866	-6.341	1.00	68.61	IS9
ATOM	43054	CB	GLN	I	124	225.634	122.521	-7.383	1.00	58.45	IS9
ATOM	43055	CG	GLN	I	124	226.726	121.560	-6.917	1.00	58.45	IS9
ATOM	43056	CD	GLN	I	124	227.542	120.993	-8.085	1.00	58.45	IS9
ATOM	43057	OE1	GLN	I	124	227.984	121.742	-8.980	1.00	58.45	IS9
ATOM	43058	NE2	GLN	I	124	227.751	119.667	-8.079	1.00	58.45	IS9
ATOM	43059	C	GLN	I	124	224.015	121.573	-5.755	1.00	68.61	IS9
ATOM	43060	O	GLN	I	124	224.398	121.163	-4.657	1.00	68.61	IS9
ATOM	43061	N	TYR	I	125	223.119	120.937	-6.506	1.00	50.70	IS9
ATOM	43062	CA	TYR	I	125	222.527	119.674	-6.094	1.00	50.70	IS9
ATOM	43063	CB	TYR	I	125	221.020	119.827	-5.996	1.00	85.52	IS9
ATOM	43064	CG	TYR	I	125	220.441	120.509	-7.194	1.00	85.52	IS9
ATOM	43065	CD1	TYR	I	125	220.264	119.821	-8.388	1.00	85.52	IS9
ATOM	43066	CE1	TYR	I	125	219.740	120.453	-9.513	1.00	85.52	IS9
ATOM	43067	CD2	TYR	I	125	220.087	121.854	-7.143	1.00	85.52	IS9
ATOM	43068	CE2	TYR	I	125	219.564	122.503	-8.259	1.00	85.52	IS9
ATOM	43069	CZ	TYR	I	125	219.388	121.796	-9.446	1.00	85.52	IS9
ATOM	43070	OH	TYR	I	125	218.834	122.418	-10.551	1.00	85.52	IS9
ATOM	43071	C	TYR	I	125	222.887	118.563	-7.084	1.00	50.70	IS9
ATOM	43072	O	TYR	I	125	223.115	118.811	-8.270	1.00	50.70	IS9
ATOM	43073	N	SER	I	126	222.945	117.337	-6.581	1.00	95.29	IS9
ATOM	43074	CA	SER	I	126	223.284	116.182	-7.397	1.00	95.29	IS9
ATOM	43075	CB	SER	I	126	223.531	114.967	-6.506	1.00	197.98	IS9
ATOM	43076	OG	SER	I	126	222.369	114.611	-5.770	1.00	197.98	IS9
ATOM	43077	C	SER	I	126	222.169	115.853	-8.366	1.00	95.29	IS9
ATOM	43078	O	SER	I	126	222.054	116.457	-9.433	1.00	95.29	IS9
ATOM	43079	N	LYS	I	127	221.351	114.881	-7.978	1.00	68.07	IS9
ATOM	43080	CA	LYS	I	127	220.233	114.441	-8.795	1.00	68.07	IS9
ATOM	43081	CB	LYS	I	127	220.185	112.908	-8.842	1.00	67.82	IS9
ATOM	43082	CG	LYS	I	127	221.266	112.263	-9.726	1.00	67.82	IS9
ATOM	43083	CD	LYS	I	127	222.684	112.369	-9.154	1.00	67.82	IS9
ATOM	43084	CE	LYS	I	127	223.690	111.677	-10.074	1.00	67.82	IS9
ATOM	43085	NZ	LYS	I	127	225.019	111.437	-9.447	1.00	67.82	IS9
ATOM	43086	C	LYS	I	127	218.902	114.990	-8.295	1.00	68.07	IS9
ATOM	43087	O	LYS	I	127	218.109	114.263	-7.693	1.00	68.07	IS9
ATOM	43088	N	ARG	I	128	218.676	116.278	-8.556	1.00	104.82	IS9
ATOM	43089	CA	ARG	I	128	217.444	116.963	-8.173	1.00	104.82	IS9
ATOM	43090	CB	ARG	I	128	217.418	118.381	-8.773	1.00	127.65	IS9
ATOM	43091	CG	ARG	I	128	216.063	119.098	-8.720	1.00	127.65	IS9
ATOM	43092	CD	ARG	I	128	216.183	120.629	-8.785	1.00	127.65	IS9
ATOM	43093	NE	ARG	I	128	216.550	121.218	-7.491	1.00	127.65	IS9
ATOM	43094	CZ	ARG	I	128	216.508	122.520	-7.205	1.00	127.65	IS9
ATOM	43095	NH1	ARG	I	128	216.113	123.398	-8.120	1.00	127.65	IS9
ATOM	43096	NH2	ARG	I	128	216.851	122.947	-5.996	1.00	127.65	IS9
ATOM	43097	C	ARG	I	128	216.228	116.170	-8.648	1.00	104.82	IS9
ATOM	43098	O	ARG	I	128	216.426	115.073	-9.215	1.00	104.82	IS9
ATOM	43099	OXT	ARG	I	128	215.090	116.647	-8.444	1.00	156.62	IS9
TER	43099		ARG	I	128						IS9
ATOM	43100	CB	LYS	J	3	237.970	169.117	31.733	1.00	165.02	JS10
ATOM	43101	CG	LYS	J	3	238.681	170.259	31.022	1.00	165.02	JS10
ATOM	43102	CD	LYS	J	3	240.174	170.305	31.311	1.00	165.02	JS10
ATOM	43103	CE	LYS	J	3	240.783	171.584	30.739	1.00	165.02	JS10



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ATOM	43104	NZ	LYS	J	3	242.203	171.778	31.134	1.00165.02	JS10
ATOM	43105	C	LYS	J	3	235.789	168.107	32.441	1.00117.28	JS10
ATOM	43106	O	LYS	J	3	236.282	167.506	33.395	1.00117.28	JS10
ATOM	43107	N	LYS	J	3	236.205	170.543	32.726	1.00117.28	JS10
ATOM	43108	CA	LYS	J	3	236.460	169.349	31.868	1.00117.28	JS10
ATOM	43109	N	ILE	J	4	234.651	167.740	31.861	1.00135.45	JS10
ATOM	43110	CA	ILE	J	4	233.917	166.561	32.299	1.00135.45	JS10
ATOM	43111	CB	ILE	J	4	232.682	166.943	33.139	1.00119.69	JS10
ATOM	43112	CG2	ILE	J	4	231.925	165.691	33.559	1.00119.69	JS10
ATOM	43113	CG1	ILE	J	4	233.128	167.713	34.382	1.00119.69	JS10
ATOM	43114	CD1	ILE	J	4	232.008	168.036	35.344	1.00119.69	JS10
ATOM	43115	C	ILE	J	4	233.484	165.723	31.098	1.00135.45	JS10
ATOM	43116	O	ILE	J	4	232.493	166.025	30.427	1.00135.45	JS10
ATOM	43117	N	ARG	J	5	234.253	164.670	30.837	1.00107.56	JS10
ATOM	43118	CA	ARG	J	5	233.994	163.762	29.730	1.00107.56	JS10
ATOM	43119	CB	ARG	J	5	235.286	163.022	29.363	1.00102.36	JS10
ATOM	43120	CG	ARG	J	5	235.168	162.110	28.159	1.00102.36	JS10
ATOM	43121	CD	ARG	J	5	236.375	161.183	28.024	1.00102.36	JS10
ATOM	43122	NE	ARG	J	5	237.471	161.763	27.247	1.00102.36	JS10
ATOM	43123	CZ	ARG	J	5	238.609	161.126	26.967	1.00102.36	JS10
ATOM	43124	NH1	ARG	J	5	238.805	159.887	27.406	1.00102.36	JS10
ATOM	43125	NH2	ARG	J	5	239.549	161.719	26.239	1.00102.36	JS10
ATOM	43126	C	ARG	J	5	232.898	162.768	30.118	1.00107.56	JS10
ATOM	43127	O	ARG	J	5	233.101	161.886	30.959	1.00107.56	JS10
ATOM	43128	N	ILE	J	6	231.731	162.929	29.505	1.00131.65	JS10
ATOM	43129	CA	ILE	J	6	230.598	162.054	29.771	1.00131.65	JS10
ATOM	43130	CB	ILE	J	6	229.300	162.862	29.929	1.00 89.08	JS10
ATOM	43131	CG2	ILE	J	6	228.366	162.153	30.898	1.00 89.08	JS10
ATOM	43132	CG1	ILE	J	6	229.611	164.265	30.444	1.00 89.08	JS10
ATOM	43133	CD1	ILE	J	6	228.431	165.205	30.351	1.00 89.08	JS10
ATOM	43134	C	ILE	J	6	230.427	161.124	28.572	1.00131.65	JS10
ATOM	43135	O	ILE	J	6	230.636	161.542	27.435	1.00131.65	JS10
ATOM	43136	N	LYS	J	7	230.050	159.871	28.814	1.00124.82	JS10
ATOM	43137	CA	LYS	J	7	229.853	158.923	27.717	1.00124.82	JS10
ATOM	43138	CB	LYS	J	7	230.979	157.882	27.691	1.00105.72	JS10
ATOM	43139	CG	LYS	J	7	231.126	157.131	26.366	1.00105.72	JS10
ATOM	43140	CD	LYS	J	7	232.295	156.143	26.422	1.00105.72	JS10
ATOM	43141	CE	LYS	J	7	232.525	155.443	25.086	1.00105.72	JS10
ATOM	43142	NZ	LYS	J	7	232.914	156.398	24.013	1.00105.72	JS10
ATOM	43143	C	LYS	J	7	228.501	158.230	27.855	1.00124.82	JS10
ATOM	43144	O	LYS	J	7	228.355	157.250	28.587	1.00124.82	JS10
ATOM	43145	N	LEU	J	8	227.514	158.766	27.147	1.00 94.47	JS10
ATOM	43146	CA	LEU	J	8	226.163	158.229	27.159	1.00 94.47	JS10
ATOM	43147	CB	LEU	J	8	225.177	159.297	26.683	1.00112.51	JS10
ATOM	43148	CG	LEU	J	8	224.872	160.452	27.636	1.00112.51	JS10
ATOM	43149	CD1	LEU	J	8	224.152	161.560	26.900	1.00112.51	JS10
ATOM	43150	CD2	LEU	J	8	224.025	159.938	28.784	1.00112.51	JS10
ATOM	43151	C	LEU	J	8	226.072	157.020	26.244	1.00 94.47	JS10
ATOM	43152	O	LEU	J	8	226.649	157.013	25.159	1.00 94.47	JS10
ATOM	43153	N	ARG	J	9	225.344	156.000	26.684	1.00 81.57	JS10
ATOM	43154	CA	ARG	J	9	225.174	154.788	25.890	1.00 81.57	JS10
ATOM	43155	CB	ARG	J	9	226.232	153.737	26.259	1.00 99.01	JS10
ATOM	43156	CG	ARG	J	9	226.276	153.392	27.738	1.00 99.01	JS10
ATOM	43157	CD	ARG	J	9	227.262	152.273	28.069	1.00 99.01	JS10
ATOM	43158	NE	ARG	J	9	228.637	152.558	27.662	1.00 99.01	JS10
ATOM	43159	CZ	ARG	J	9	229.111	152.364	26.435	1.00 99.01	JS10
ATOM	43160	NH1	ARG	J	9	228.322	151.882	25.485	1.00 99.01	JS10
ATOM	43161	NH2	ARG	J	9	230.378	152.641	26.156	1.00 99.01	JS10
ATOM	43162	C	ARG	J	9	223.786	154.207	26.096	1.00 81.57	JS10
ATOM	43163	O	ARG	J	9	223.245	154.223	27.203	1.00 81.57	JS10
ATOM	43164	N	GLY	J	10	223.217	153.695	25.013	1.00158.96	JS10
ATOM	43165	CA	GLY	J	10	221.895	153.110	25.079	1.00158.96	JS10
ATOM	43166	C	GLY	J	10	221.595	152.288	23.844	1.00158.96	JS10
ATOM	43167	O	GLY	J	10	222.421	152.168	22.939	1.00158.96	JS10
ATOM	43168	N	PHE	J	11	220.401	151.715	23.812	1.00104.44	JS10
ATOM	43169	CA	PHE	J	11	219.978	150.902	22.690	1.00104.44	JS10
ATOM	43170	CB	PHE	J	11	219.245	149.666	23.206	1.00 45.20	JS10
ATOM	43171	CG	PHE	J	11	220.142	148.682	23.901	1.00 45.20	JS10
ATOM	43172	CD1	PHE	J	11	219.618	147.764	24.816	1.00 45.20	JS10
ATOM	43173	CD2	PHE	J	11	221.512	148.653	23.624	1.00 45.20	JS10
ATOM	43174	CE1	PHE	J	11	220.446	146.819	25.455	1.00 45.20	JS10
ATOM	43175	CE2	PHE	J	11	222.351	147.720	24.250	1.00 45.20	JS10
ATOM	43176	CZ	PHE	J	11	221.813	146.794	25.174	1.00 45.20	JS10
ATOM	43177	C	PHE	J	11	219.073	151.731	21.801	1.00104.44	JS10
ATOM	43178	O	PHE	J	11	219.173	151.678	20.574	1.00104.44	JS10
ATOM	43179	N	ASP	J	12	218.195	152.503	22.434	1.00 79.54	JS10
ATOM	43180	CA	ASP	J	12	217.261	153.361	21.712	1.00 79.54	JS10



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ATOM	43181	CB	ASP	J	12	216.127	153.800	22.643	1.00109.44	JS10
ATOM	43182	CG	ASP	J	12	215.019	154.531	21.911	1.00109.44	JS10
ATOM	43183	OD1	ASP	J	12	215.288	155.598	21.325	1.00109.44	JS10
ATOM	43184	OD2	ASP	J	12	213.873	154.035	21.921	1.00109.44	JS10
ATOM	43185	C	ASP	J	12	218.019	154.582	21.202	1.00 79.54	JS10
ATOM	43186	O	ASP	J	12	218.614	155.313	21.986	1.00 79.54	JS10
ATOM	43187	N	HIS	J	13	218.005	154.803	19.893	1.00102.20	JS10
ATOM	43188	CA	HIS	J	13	218.721	155.943	19.350	1.00102.20	JS10
ATOM	43189	CB	HIS	J	13	218.877	155.817	17.833	1.00100.01	JS10
ATOM	43190	CG	HIS	J	13	217.747	156.419	17.062	1.00100.01	JS10
ATOM	43191	CD2	HIS	J	13	217.602	157.648	16.512	1.00100.01	JS10
ATOM	43192	ND1	HIS	J	13	216.559	155.758	16.843	1.00100.01	JS10
ATOM	43193	CE1	HIS	J	13	215.730	156.554	16.191	1.00100.01	JS10
ATOM	43194	NE2	HIS	J	13	216.338	157.708	15.978	1.00100.01	JS10
ATOM	43195	C	HIS	J	13	218.019	157.263	19.690	1.00102.20	JS10
ATOM	43196	O	HIS	J	13	218.476	158.330	19.288	1.00102.20	JS10
ATOM	43197	N	LYS	J	14	216.905	157.197	20.417	1.00 87.77	JS10
ATOM	43198	CA	LYS	J	14	216.182	158.412	20.802	1.00 87.77	JS10
ATOM	43199	CB	LYS	J	14	214.724	158.357	20.344	1.00127.93	JS10
ATOM	43200	CG	LYS	J	14	214.559	158.470	18.841	1.00127.93	JS10
ATOM	43201	CD	LYS	J	14	213.112	158.705	18.457	1.00127.93	JS10
ATOM	43202	CE	LYS	J	14	212.616	160.038	18.995	1.00127.93	JS10
ATOM	43203	NZ	LYS	J	14	211.205	160.319	18.597	1.00127.93	JS10
ATOM	43204	C	LYS	J	14	216.240	158.609	22.307	1.00 87.77	JS10
ATOM	43205	O	LYS	J	14	216.033	159.713	22.806	1.00 87.77	JS10
ATOM	43206	N	THR	J	15	216.526	157.529	23.025	1.00 95.92	JS10
ATOM	43207	CA	THR	J	15	216.639	157.585	24.473	1.00 95.92	JS10
ATOM	43208	CB	THR	J	15	216.616	156.153	25.087	1.00 94.69	JS10
ATOM	43209	OG1	THR	J	15	216.142	156.221	26.436	1.00 94.69	JS10
ATOM	43210	CG2	THR	J	15	218.016	155.519	25.078	1.00 94.69	JS10
ATOM	43211	C	THR	J	15	217.962	158.299	24.803	1.00 95.92	JS10
ATOM	43212	O	THR	J	15	218.231	158.633	25.961	1.00 95.92	JS10
ATOM	43213	N	LEU	J	16	218.779	158.528	23.771	1.00 85.33	JS10
ATOM	43214	CA	LEU	J	16	220.056	159.226	23.920	1.00 85.33	JS10
ATOM	43215	CB	LEU	J	16	221.212	158.431	23.307	1.00 78.70	JS10
ATOM	43216	CG	LEU	J	16	221.625	157.161	24.055	1.00 78.70	JS10
ATOM	43217	CD1	LEU	J	16	223.055	156.798	23.676	1.00 78.70	JS10
ATOM	43218	CD2	LEU	J	16	221.524	157.386	25.554	1.00 78.70	JS10
ATOM	43219	C	LEU	J	16	219.995	160.601	23.272	1.00 85.33	JS10
ATOM	43220	O	LEU	J	16	220.574	161.559	23.784	1.00 85.33	JS10
ATOM	43221	N	ASP	J	17	219.304	160.708	22.143	1.00129.08	JS10
ATOM	43222	CA	ASP	J	17	219.174	162.006	21.496	1.00129.08	JS10
ATOM	43223	CB	ASP	J	17	218.500	161.879	20.127	1.00131.32	JS10
ATOM	43224	CG	ASP	J	17	219.371	161.166	19.110	1.00131.32	JS10
ATOM	43225	OD1	ASP	J	17	220.611	161.318	19.178	1.00131.32	JS10
ATOM	43226	OD2	ASP	J	17	218.813	160.468	18.233	1.00131.32	JS10
ATOM	43227	C	ASP	J	17	218.326	162.878	22.420	1.00129.08	JS10
ATOM	43228	O	ASP	J	17	218.136	164.070	22.178	1.00129.08	JS10
ATOM	43229	N	ALA	J	18	217.817	162.257	23.479	1.00109.59	JS10
ATOM	43230	CA	ALA	J	18	217.006	162.939	24.480	1.00109.59	JS10
ATOM	43231	CB	ALA	J	18	215.833	162.059	24.895	1.00117.19	JS10
ATOM	43232	C	ALA	J	18	217.912	163.198	25.674	1.00109.59	JS10
ATOM	43233	O	ALA	J	18	218.158	164.346	26.045	1.00109.59	JS10
ATOM	43234	N	SER	J	19	218.405	162.113	26.265	1.00 85.76	JS10
ATOM	43235	CA	SER	J	19	219.303	162.191	27.407	1.00 85.76	JS10
ATOM	43236	CB	SER	J	19	219.997	160.849	27.631	1.00106.78	JS10
ATOM	43237	OG	SER	J	19	221.100	161.003	28.510	1.00106.78	JS10
ATOM	43238	C	SER	J	19	220.360	163.267	27.203	1.00 85.76	JS10
ATOM	43239	O	SER	J	19	220.387	164.262	27.923	1.00 85.76	JS10
ATOM	43240	N	ALA	J	20	221.233	163.067	26.222	1.00115.61	JS10
ATOM	43241	CA	ALA	J	20	222.285	164.037	25.949	1.00115.61	JS10
ATOM	43242	CB	ALA	J	20	223.112	163.591	24.747	1.00 90.21	JS10
ATOM	43243	C	ALA	J	20	221.730	165.443	25.709	1.00115.61	JS10
ATOM	43244	O	ALA	J	20	222.259	166.422	26.236	1.00115.61	JS10
ATOM	43245	N	GLN	J	21	220.663	165.547	24.922	1.00101.23	JS10
ATOM	43246	CA	GLN	J	21	220.088	166.852	24.634	1.00101.23	JS10
ATOM	43247	CB	GLN	J	21	218.954	166.731	23.622	1.00157.50	JS10
ATOM	43248	CG	GLN	J	21	218.534	168.067	23.050	1.00157.50	JS10
ATOM	43249	CD	GLN	J	21	217.563	167.927	21.900	1.00157.50	JS10
ATOM	43250	OE1	GLN	J	21	216.464	167.390	22.056	1.00157.50	JS10
ATOM	43251	NE2	GLN	J	21	217.964	168.413	20.730	1.00157.50	JS10
ATOM	43252	C	GLN	J	21	219.590	167.520	25.909	1.00101.23	JS10
ATOM	43253	O	GLN	J	21	219.245	168.701	25.903	1.00101.23	JS10
ATOM	43254	N	LYS	J	22	219.540	166.756	26.997	1.00131.59	JS10
ATOM	43255	CA	LYS	J	22	219.133	167.296	28.290	1.00131.59	JS10
ATOM	43256	CB	LYS	J	22	218.590	166.202	29.212	1.00 93.67	JS10
ATOM	43257	CG	LYS	J	22	217.161	165.762	28.961	1.00 93.67	JS10



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ATOM	43258	CD	LYS	J	22	216.641	165.002	30.186	1.00	93.67	JS10
ATOM	43259	CE	LYS	J	22	215.182	164.574	30.049	1.00	93.67	JS10
ATOM	43260	NZ	LYS	J	22	214.993	163.407	29.137	1.00	93.67	JS10
ATOM	43261	C	LYS	J	22	220.402	167.858	28.914	1.00131.59		JS10
ATOM	43262	O	LYS	J	22	220.518	169.059	29.159	1.00131.59		JS10
ATOM	43263	N	ILE	J	23	221.353	166.959	29.158	1.00119.48		JS10
ATOM	43264	CA	ILE	J	23	222.644	167.296	29.746	1.00119.48		JS10
ATOM	43265	CB	ILE	J	23	223.649	166.111	29.593	1.00	62.64	JS10
ATOM	43266	CG2	ILE	J	23	225.089	166.598	29.764	1.00	62.64	JS10
ATOM	43267	CG1	ILE	J	23	223.331	165.013	30.619	1.00	62.64	JS10
ATOM	43268	CD1	ILE	J	23	222.000	164.301	30.407	1.00	62.64	JS10
ATOM	43269	C	ILE	J	23	223.248	168.552	29.123	1.00119.48		JS10
ATOM	43270	O	ILE	J	23	223.991	169.279	29.779	1.00119.48		JS10
ATOM	43271	N	VAL	J	24	222.923	168.814	27.862	1.00142.01		JS10
ATOM	43272	CA	VAL	J	24	223.458	169.986	27.186	1.00142.01		JS10
ATOM	43273	CB	VAL	J	24	223.458	169.793	25.659	1.00171.58		JS10
ATOM	43274	CG1	VAL	J	24	223.983	171.042	24.975	1.00171.58		JS10
ATOM	43275	CG2	VAL	J	24	224.320	168.597	25.297	1.00171.58		JS10
ATOM	43276	C	VAL	J	24	222.702	171.268	27.530	1.00142.01		JS10
ATOM	43277	O	VAL	J	24	223.281	172.192	28.096	1.00142.01		JS10
ATOM	43278	N	GLU	J	25	221.417	171.327	27.195	1.00131.93		JS10
ATOM	43279	CA	GLU	J	25	220.615	172.518	27.471	1.00131.93		JS10
ATOM	43280	CB	GLU	J	25	219.143	172.259	27.171	1.00154.18		JS10
ATOM	43281	CG	GLU	J	25	218.858	171.827	25.757	1.00154.18		JS10
ATOM	43282	CD	GLU	J	25	217.377	171.700	25.497	1.00154.18		JS10
ATOM	43283	OE1	GLU	J	25	216.690	172.745	25.475	1.00154.18		JS10
ATOM	43284	OE2	GLU	J	25	216.899	170.558	25.326	1.00154.18		JS10
ATOM	43285	C	GLU	J	25	220.735	172.981	28.916	1.00131.93		JS10
ATOM	43286	O	GLU	J	25	220.841	174.178	29.188	1.00131.93		JS10
ATOM	43287	N	ALA	J	26	220.703	172.028	29.842	1.00187.31		JS10
ATOM	43288	CA	ALA	J	26	220.805	172.343	31.260	1.00187.31		JS10
ATOM	43289	CB	ALA	J	26	220.655	171.072	32.093	1.00121.69		JS10
ATOM	43290	C	ALA	J	26	222.132	173.022	31.576	1.00187.31		JS10
ATOM	43291	O	ALA	J	26	222.195	174.242	31.730	1.00187.31		JS10
ATOM	43292	N	ALA	J	27	223.194	172.227	31.658	1.00154.40		JS10
ATOM	43293	CA	ALA	J	27	224.518	172.745	31.971	1.00154.40		JS10
ATOM	43294	CB	ALA	J	27	225.522	171.605	31.984	1.00	40.88	JS10
ATOM	43295	C	ALA	J	27	225.006	173.872	31.050	1.00154.40		JS10
ATOM	43296	O	ALA	J	27	226.073	174.437	31.284	1.00154.40		JS10
ATOM	43297	N	ARG	J	28	224.239	174.197	30.010	1.00133.62		JS10
ATOM	43298	CA	ARG	J	28	224.614	175.278	29.092	1.00133.62		JS10
ATOM	43299	CB	ARG	J	28	223.863	175.156	27.763	1.00161.89		JS10
ATOM	43300	CG	ARG	J	28	224.694	174.599	26.621	1.00161.89		JS10
ATOM	43301	CD	ARG	J	28	223.871	174.472	25.344	1.00161.89		JS10
ATOM	43302	NE	ARG	J	28	224.659	173.913	24.248	1.00161.89		JS10
ATOM	43303	CZ	ARG	J	28	225.680	174.536	23.669	1.00161.89		JS10
ATOM	43304	NH1	ARG	J	28	226.036	175.745	24.076	1.00161.89		JS10
ATOM	43305	NH2	ARG	J	28	226.356	173.946	22.693	1.00161.89		JS10
ATOM	43306	C	ARG	J	28	224.278	176.619	29.728	1.00133.62		JS10
ATOM	43307	O	ARG	J	28	224.207	177.645	29.052	1.00133.62		JS10
ATOM	43308	N	ARG	J	29	224.062	176.595	31.039	1.00145.16		JS10
ATOM	43309	CA	ARG	J	29	223.724	177.792	31.794	1.00145.16		JS10
ATOM	43310	CB	ARG	J	29	222.205	177.923	31.907	1.00121.77		JS10
ATOM	43311	CG	ARG	J	29	221.450	177.521	30.652	1.00121.77		JS10
ATOM	43312	CD	ARG	J	29	219.986	177.260	30.960	1.00121.77		JS10
ATOM	43313	NE	ARG	J	29	219.299	176.605	29.852	1.00121.77		JS10
ATOM	43314	CZ	ARG	J	29	218.021	176.239	29.877	1.00121.77		JS10
ATOM	43315	NH1	ARG	J	29	217.285	176.465	30.957	1.00121.77		JS10
ATOM	43316	NH2	ARG	J	29	217.479	175.647	28.821	1.00121.77		JS10
ATOM	43317	C	ARG	J	29	224.323	177.643	33.188	1.00145.16		JS10
ATOM	43318	O	ARG	J	29	223.666	177.936	34.185	1.00145.16		JS10
ATOM	43319	N	SER	J	30	225.567	177.177	33.254	1.00150.48		JS10
ATOM	43320	CA	SER	J	30	226.236	176.983	34.536	1.00150.48		JS10
ATOM	43321	CB	SER	J	30	225.476	175.940	35.362	1.00124.79		JS10
ATOM	43322	OG	SER	J	30	225.267	174.748	34.624	1.00124.79		JS10
ATOM	43323	C	SER	J	30	227.704	176.570	34.408	1.00150.48		JS10
ATOM	43324	O	SER	J	30	228.376	176.329	35.413	1.00150.48		JS10
ATOM	43325	N	GLY	J	31	228.195	176.493	33.174	1.00156.01		JS10
ATOM	43326	CA	GLY	J	31	229.580	176.115	32.933	1.00156.01		JS10
ATOM	43327	C	GLY	J	31	230.025	176.582	31.560	1.00156.01		JS10
ATOM	43328	O	GLY	J	31	229.651	177.675	31.134	1.00156.01		JS10
ATOM	43329	N	ALA	J	32	230.824	175.774	30.866	1.00150.10		JS10
ATOM	43330	CA	ALA	J	32	231.271	176.139	29.523	1.00150.10		JS10
ATOM	43331	CB	ALA	J	32	232.245	175.096	28.980	1.00	63.95	JS10
ATOM	43332	C	ALA	J	32	230.028	176.201	28.641	1.00150.10		JS10
ATOM	43333	O	ALA	J	32	228.950	176.580	29.101	1.00150.10		JS10
ATOM	43334	N	GLN	J	33	230.172	175.836	27.372	1.00181.71		JS10



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ATOM	43335	CA	GLN	J	33	229.026	175.840	26.471	1.00181.71	JS10
ATOM	43336	CB	GLN	J	33	229.180	176.920	25.388	1.00150.26	JS10
ATOM	43337	CG	GLN	J	33	227.885	177.710	25.133	1.00150.26	JS10
ATOM	43338	CD	GLN	J	33	228.061	178.891	24.187	1.00150.26	JS10
ATOM	43339	OE1	GLN	J	33	228.416	178.722	23.021	1.00150.26	JS10
ATOM	43340	NE2	GLN	J	33	227.805	180.094	24.689	1.00150.26	JS10
ATOM	43341	C	GLN	J	33	228.888	174.454	25.851	1.00181.71	JS10
ATOM	43342	O	GLN	J	33	228.206	174.271	24.842	1.00181.71	JS10
ATOM	43343	N	VAL	J	34	229.552	173.482	26.475	1.00131.29	JS10
ATOM	43344	CA	VAL	J	34	229.505	172.091	26.038	1.00131.29	JS10
ATOM	43345	CB	VAL	J	34	228.042	171.590	26.019	1.00137.88	JS10
ATOM	43346	CG1	VAL	J	34	228.007	170.084	25.836	1.00137.88	JS10
ATOM	43347	CG2	VAL	J	34	227.330	172.006	27.302	1.00137.88	JS10
ATOM	43348	C	VAL	J	34	230.121	171.866	24.653	1.00131.29	JS10
ATOM	43349	O	VAL	J	34	229.954	172.691	23.750	1.00131.29	JS10
ATOM	43350	N	SER	J	35	230.828	170.744	24.492	1.00142.61	JS10
ATOM	43351	CA	SER	J	35	231.461	170.392	23.214	1.00142.61	JS10
ATOM	43352	CB	SER	J	35	232.510	169.286	23.397	1.00107.68	JS10
ATOM	43353	OG	SER	J	35	233.435	169.581	24.426	1.00107.68	JS10
ATOM	43354	C	SER	J	35	230.396	169.869	22.258	1.00142.61	JS10
ATOM	43355	O	SER	J	35	230.714	169.213	21.268	1.00142.61	JS10
ATOM	43356	N	GLY	J	36	229.134	170.157	22.561	1.00125.34	JS10
ATOM	43357	CA	GLY	J	36	228.048	169.677	21.730	1.00125.34	JS10
ATOM	43358	C	GLY	J	36	227.954	168.179	21.928	1.00125.34	JS10
ATOM	43359	O	GLY	J	36	228.945	167.547	22.290	1.00125.34	JS10
ATOM	43360	N	PRO	J	37	226.781	167.572	21.720	1.00 97.31	JS10
ATOM	43361	CD	PRO	J	37	225.501	168.141	21.263	1.00114.36	JS10
ATOM	43362	CA	PRO	J	37	226.682	166.123	21.909	1.00 97.31	JS10
ATOM	43363	CB	PRO	J	37	225.180	165.889	21.933	1.00114.36	JS10
ATOM	43364	CG	PRO	J	37	224.694	166.898	20.924	1.00114.36	JS10
ATOM	43365	C	PRO	J	37	227.365	165.428	20.736	1.00 97.31	JS10
ATOM	43366	O	PRO	J	37	227.007	165.657	19.580	1.00 97.31	JS10
ATOM	43367	N	ILE	J	38	228.355	164.590	21.025	1.00105.40	JS10
ATOM	43368	CA	ILE	J	38	229.073	163.901	19.959	1.00105.40	JS10
ATOM	43369	CB	ILE	J	38	230.580	163.914	20.214	1.00 95.69	JS10
ATOM	43370	CG2	ILE	J	38	231.249	164.853	19.223	1.00 95.69	JS10
ATOM	43371	CG1	ILE	J	38	230.855	164.344	21.657	1.00 95.69	JS10
ATOM	43372	CD1	ILE	J	38	232.326	164.556	21.981	1.00 95.69	JS10
ATOM	43373	C	ILE	J	38	228.605	162.474	19.728	1.00105.40	JS10
ATOM	43374	O	ILE	J	38	228.549	161.663	20.655	1.00105.40	JS10
ATOM	43375	N	PRO	J	39	228.277	162.152	18.464	1.00124.28	JS10
ATOM	43376	CD	PRO	J	39	228.602	163.021	17.318	1.00 58.21	JS10
ATOM	43377	CA	PRO	J	39	227.792	160.853	17.991	1.00124.28	JS10
ATOM	43378	CB	PRO	J	39	227.792	161.019	16.472	1.00 58.21	JS10
ATOM	43379	CG	PRO	J	39	228.879	162.015	16.241	1.00 58.21	JS10
ATOM	43380	C	PRO	J	39	228.544	159.608	18.444	1.00124.28	JS10
ATOM	43381	O	PRO	J	39	228.126	158.951	19.396	1.00124.28	JS10
ATOM	43382	N	LEU	J	40	229.638	159.285	17.758	1.00 85.10	JS10
ATOM	43383	CA	LEU	J	40	230.443	158.098	18.062	1.00 85.10	JS10
ATOM	43384	CB	LEU	J	40	230.478	157.791	19.564	1.00 83.78	JS10
ATOM	43385	CG	LEU	J	40	231.560	158.464	20.407	1.00 83.78	JS10
ATOM	43386	CD1	LEU	J	40	231.569	157.854	21.809	1.00 83.78	JS10
ATOM	43387	CD2	LEU	J	40	232.915	158.266	19.741	1.00 83.78	JS10
ATOM	43388	C	LEU	J	40	229.928	156.862	17.342	1.00 85.10	JS10
ATOM	43389	O	LEU	J	40	228.749	156.515	17.435	1.00 85.10	JS10
ATOM	43390	N	PRO	J	41	230.820	156.161	16.631	1.00 72.79	JS10
ATOM	43391	CD	PRO	J	41	232.282	156.197	16.783	1.00 94.69	JS10
ATOM	43392	CA	PRO	J	41	230.424	154.960	15.904	1.00 72.79	JS10
ATOM	43393	CB	PRO	J	41	231.759	154.374	15.479	1.00 94.69	JS10
ATOM	43394	CG	PRO	J	41	232.633	154.739	16.621	1.00 94.69	JS10
ATOM	43395	C	PRO	J	41	229.632	154.012	16.795	1.00 72.79	JS10
ATOM	43396	O	PRO	J	41	229.897	153.900	17.995	1.00 72.79	JS10
ATOM	43397	N	THR	J	42	228.668	153.329	16.185	1.00 92.50	JS10
ATOM	43398	CA	THR	J	42	227.800	152.388	16.879	1.00 92.50	JS10
ATOM	43399	CB	THR	J	42	226.382	152.490	16.327	1.00 77.82	JS10
ATOM	43400	OG1	THR	J	42	226.070	153.865	16.061	1.00 77.82	JS10
ATOM	43401	CG2	THR	J	42	225.396	151.924	17.322	1.00 77.82	JS10
ATOM	43402	C	THR	J	42	228.271	150.950	16.676	1.00 92.50	JS10
ATOM	43403	O	THR	J	42	228.555	150.554	15.551	1.00 92.50	JS10
ATOM	43404	N	ARG	J	43	228.351	150.167	17.749	1.00104.11	JS10
ATOM	43405	CA	ARG	J	43	228.777	148.771	17.622	1.00104.11	JS10
ATOM	43406	CB	ARG	J	43	229.742	148.388	18.744	1.00107.80	JS10
ATOM	43407	CG	ARG	J	43	231.142	148.924	18.542	1.00107.80	JS10
ATOM	43408	CD	ARG	J	43	232.142	148.256	19.474	1.00107.80	JS10
ATOM	43409	NE	ARG	J	43	233.512	148.633	19.131	1.00107.80	JS10
ATOM	43410	CZ	ARG	J	43	234.604	148.074	19.646	1.00107.80	JS10
ATOM	43411	NH1	ARG	J	43	234.503	147.099	20.543	1.00107.80	JS10



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ATOM	43412	NH2	ARG	J	43	235.803	148.488	19.253	1.00107.80	JS10
ATOM	43413	C	ARG	J	43	227.593	147.806	17.615	1.00104.11	JS10
ATOM	43414	O	ARG	J	43	226.888	147.668	18.618	1.00104.11	JS10
ATOM	43415	N	VAL	J	44	227.397	147.128	16.482	1.00 81.35	JS10
ATOM	43416	CA	VAL	J	44	226.289	146.189	16.309	1.00 81.35	JS10
ATOM	43417	CB	VAL	J	44	225.644	146.385	14.931	1.00 65.15	JS10
ATOM	43418	CG1	VAL	J	44	224.453	145.459	14.783	1.00 65.15	JS10
ATOM	43419	CG2	VAL	J	44	225.230	147.839	14.754	1.00 65.15	JS10
ATOM	43420	C	VAL	J	44	226.639	144.702	16.472	1.00 81.35	JS10
ATOM	43421	O	VAL	J	44	227.710	144.249	16.070	1.00 81.35	JS10
ATOM	43422	N	ARG	J	45	225.709	143.950	17.053	1.00 97.56	JS10
ATOM	43423	CA	ARG	J	45	225.875	142.517	17.286	1.00 97.56	JS10
ATOM	43424	CB	ARG	J	45	225.590	142.196	18.749	1.00 93.87	JS10
ATOM	43425	CG	ARG	J	45	226.201	143.169	19.729	1.00 93.87	JS10
ATOM	43426	CD	ARG	J	45	227.666	142.885	19.925	1.00 93.87	JS10
ATOM	43427	NE	ARG	J	45	227.938	142.120	21.142	1.00 93.87	JS10
ATOM	43428	CZ	ARG	J	45	227.311	141.002	21.502	1.00 93.87	JS10
ATOM	43429	NH1	ARG	J	45	226.345	140.486	20.756	1.00 93.87	JS10
ATOM	43430	NH2	ARG	J	45	227.680	140.380	22.608	1.00 93.87	JS10
ATOM	43431	C	ARG	J	45	224.868	141.756	16.423	1.00 97.56	JS10
ATOM	43432	O	ARG	J	45	223.673	142.052	16.468	1.00 97.56	JS10
ATOM	43433	N	ARG	J	46	225.336	140.774	15.652	1.00 69.40	JS10
ATOM	43434	CA	ARG	J	46	224.448	139.984	14.793	1.00 69.40	JS10
ATOM	43435	CB	ARG	J	46	225.048	139.796	13.394	1.00 92.94	JS10
ATOM	43436	CG	ARG	J	46	225.379	141.058	12.627	1.00 92.94	JS10
ATOM	43437	CD	ARG	J	46	224.163	141.898	12.399	1.00 92.94	JS10
ATOM	43438	NE	ARG	J	46	224.281	142.653	11.160	1.00 92.94	JS10
ATOM	43439	CZ	ARG	J	46	223.566	143.738	10.881	1.00 92.94	JS10
ATOM	43440	NH1	ARG	J	46	222.682	144.201	11.757	1.00 92.94	JS10
ATOM	43441	NH2	ARG	J	46	223.726	144.360	9.720	1.00 92.94	JS10
ATOM	43442	C	ARG	J	46	224.199	138.603	15.380	1.00 69.40	JS10
ATOM	43443	O	ARG	J	46	225.076	138.015	16.015	1.00 69.40	JS10
ATOM	43444	N	PHE	J	47	222.995	138.093	15.165	1.00 95.58	JS10
ATOM	43445	CA	PHE	J	47	222.627	136.767	15.629	1.00 95.58	JS10
ATOM	43446	CB	PHE	J	47	221.723	136.837	16.859	1.00 96.96	JS10
ATOM	43447	CG	PHE	J	47	222.342	137.562	18.007	1.00 96.96	JS10
ATOM	43448	CD1	PHE	J	47	222.066	138.908	18.226	1.00 96.96	JS10
ATOM	43449	CD2	PHE	J	47	223.252	136.920	18.835	1.00 96.96	JS10
ATOM	43450	CE1	PHE	J	47	222.693	139.606	19.254	1.00 96.96	JS10
ATOM	43451	CE2	PHE	J	47	223.886	137.607	19.865	1.00 96.96	JS10
ATOM	43452	CZ	PHE	J	47	223.608	138.953	20.076	1.00 96.96	JS10
ATOM	43453	C	PHE	J	47	221.897	136.117	14.478	1.00 95.58	JS10
ATOM	43454	O	PHE	J	47	220.770	136.483	14.146	1.00 95.58	JS10
ATOM	43455	N	THR	J	48	222.565	135.170	13.844	1.00 58.59	JS10
ATOM	43456	CA	THR	J	48	221.974	134.478	12.721	1.00 58.59	JS10
ATOM	43457	CB	THR	J	48	222.983	134.325	11.590	1.00105.36	JS10
ATOM	43458	OG1	THR	J	48	223.493	135.615	11.229	1.00105.36	JS10
ATOM	43459	CG2	THR	J	48	222.324	133.689	10.390	1.00105.36	JS10
ATOM	43460	C	THR	J	48	221.566	133.109	13.225	1.00 58.59	JS10
ATOM	43461	O	THR	J	48	222.416	132.313	13.626	1.00 58.59	JS10
ATOM	43462	N	VAL	J	49	220.264	132.838	13.206	1.00 61.22	JS10
ATOM	43463	CA	VAL	J	49	219.759	131.562	13.692	1.00 61.22	JS10
ATOM	43464	CB	VAL	J	49	219.004	131.753	15.002	1.00 52.42	JS10
ATOM	43465	CG1	VAL	J	49	219.951	131.552	16.172	1.00 52.42	JS10
ATOM	43466	CG2	VAL	J	49	218.391	133.150	15.032	1.00 52.42	JS10
ATOM	43467	C	VAL	J	49	218.845	130.813	12.744	1.00 61.22	JS10
ATOM	43468	O	VAL	J	49	218.071	131.404	12.013	1.00 61.22	JS10
ATOM	43469	N	ILE	J	50	218.947	129.494	12.760	1.00 63.90	JS10
ATOM	43470	CA	ILE	J	50	218.093	128.673	11.928	1.00 63.90	JS10
ATOM	43471	CB	ILE	J	50	218.430	127.192	12.124	1.00 43.90	JS10
ATOM	43472	CG2	ILE	J	50	217.387	126.313	11.440	1.00 43.90	JS10
ATOM	43473	CG1	ILE	J	50	219.828	126.912	11.585	1.00 43.90	JS10
ATOM	43474	CD1	ILE	J	50	220.159	125.429	11.537	1.00 43.90	JS10
ATOM	43475	C	ILE	J	50	216.671	128.930	12.425	1.00 63.90	JS10
ATOM	43476	O	ILE	J	50	216.403	128.760	13.621	1.00 63.90	JS10
ATOM	43477	N	ARG	J	51	215.768	129.331	11.530	1.00 57.00	JS10
ATOM	43478	CA	ARG	J	51	214.384	129.616	11.921	1.00 57.00	JS10
ATOM	43479	CB	ARG	J	51	213.538	129.990	10.711	1.00 41.61	JS10
ATOM	43480	CG	ARG	J	51	213.689	131.412	10.299	1.00 41.61	JS10
ATOM	43481	CD	ARG	J	51	212.856	131.731	9.094	1.00 41.61	JS10
ATOM	43482	NE	ARG	J	51	213.183	133.065	8.594	1.00 41.61	JS10
ATOM	43483	CZ	ARG	J	51	212.407	134.136	8.752	1.00 41.61	JS10
ATOM	43484	NH1	ARG	J	51	211.240	134.024	9.403	1.00 41.61	JS10
ATOM	43485	NH2	ARG	J	51	212.798	135.314	8.260	1.00 41.61	JS10
ATOM	43486	C	ARG	J	51	213.653	128.520	12.690	1.00 57.00	JS10
ATOM	43487	O	ARG	J	51	213.347	128.689	13.880	1.00 57.00	JS10
ATOM	43488	N	GLY	J	52	213.346	127.414	12.016	1.00 51.18	JS10



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ATOM	43489	CA	GLY	J	52	212.638	126.336	12.684	1.00	51.18	JS10
ATOM	43490	C	GLY	J	52	213.606	125.453	13.432	1.00	51.18	JS10
ATOM	43491	O	GLY	J	52	214.814	125.569	13.234	1.00	51.18	JS10
ATOM	43492	N	PRO	J	53	213.124	124.585	14.327	1.00	61.63	JS10
ATOM	43493	CD	PRO	J	53	211.722	124.354	14.727	1.00	32.02	JS10
ATOM	43494	CA	PRO	J	53	214.048	123.705	15.058	1.00	61.63	JS10
ATOM	43495	CB	PRO	J	53	213.211	123.223	16.216	1.00	32.02	JS10
ATOM	43496	CG	PRO	J	53	211.820	123.066	15.556	1.00	32.02	JS10
ATOM	43497	C	PRO	J	53	214.321	122.564	14.105	1.00	61.63	JS10
ATOM	43498	O	PRO	J	53	213.705	122.501	13.044	1.00	61.63	JS10
ATOM	43499	N	PHE	J	54	215.229	121.667	14.449	1.00	69.27	JS10
ATOM	43500	CA	PHE	J	54	215.479	120.510	13.582	1.00	69.27	JS10
ATOM	43501	CB	PHE	J	54	214.388	119.478	13.835	1.00	57.68	JS10
ATOM	43502	CG	PHE	J	54	214.730	118.113	13.361	1.00	57.68	JS10
ATOM	43503	CD1	PHE	J	54	215.327	117.196	14.230	1.00	57.68	JS10
ATOM	43504	CD2	PHE	J	54	214.461	117.739	12.049	1.00	57.68	JS10
ATOM	43505	CE1	PHE	J	54	215.652	115.921	13.802	1.00	57.68	JS10
ATOM	43506	CE2	PHE	J	54	214.780	116.469	11.601	1.00	57.68	JS10
ATOM	43507	CZ	PHE	J	54	215.378	115.553	12.478	1.00	57.68	JS10
ATOM	43508	C	PHE	J	54	215.561	120.751	12.056	1.00	69.27	JS10
ATOM	43509	O	PHE	J	54	214.546	120.990	11.389	1.00	69.27	JS10
ATOM	43510	N	LYS	J	55	216.773	120.645	11.515	1.00	56.04	JS10
ATOM	43511	CA	LYS	J	55	217.047	120.814	10.085	1.00	56.04	JS10
ATOM	43512	CB	LYS	J	55	216.543	119.600	9.297	1.00	65.69	JS10
ATOM	43513	CG	LYS	J	55	215.067	119.556	9.006	1.00	65.69	JS10
ATOM	43514	CD	LYS	J	55	214.778	118.320	8.183	1.00	65.69	JS10
ATOM	43515	CE	LYS	J	55	213.415	118.380	7.511	1.00	65.69	JS10
ATOM	43516	NZ	LYS	J	55	213.238	117.258	6.524	1.00	65.69	JS10
ATOM	43517	C	LYS	J	55	216.550	122.100	9.434	1.00	56.04	JS10
ATOM	43518	O	LYS	J	55	216.095	123.010	10.112	1.00	56.04	JS10
ATOM	43519	N	HIS	J	56	216.647	122.160	8.111	1.00	53.43	JS10
ATOM	43520	CA	HIS	J	56	216.270	123.344	7.346	1.00	53.43	JS10
ATOM	43521	CB	HIS	J	56	214.989	123.974	7.888	1.00	75.83	JS10
ATOM	43522	CG	HIS	J	56	213.792	123.081	7.805	1.00	75.83	JS10
ATOM	43523	CD2	HIS	J	56	213.070	122.467	8.773	1.00	75.83	JS10
ATOM	43524	ND1	HIS	J	56	213.203	122.733	6.609	1.00	75.83	JS10
ATOM	43525	CE1	HIS	J	56	212.170	121.942	6.842	1.00	75.83	JS10
ATOM	43526	NE2	HIS	J	56	212.068	121.766	8.147	1.00	75.83	JS10
ATOM	43527	C	HIS	J	56	217.420	124.348	7.474	1.00	53.43	JS10
ATOM	43528	O	HIS	J	56	217.193	125.549	7.576	1.00	53.43	JS10
ATOM	43529	N	LYS	J	57	218.653	123.840	7.471	1.00	51.33	JS10
ATOM	43530	CA	LYS	J	57	219.860	124.660	7.596	1.00	51.33	JS10
ATOM	43531	CB	LYS	J	57	221.079	123.948	6.967	1.00	106.37	JS10
ATOM	43532	CG	LYS	J	57	220.932	123.661	5.444	1.00	106.37	JS10
ATOM	43533	CD	LYS	J	57	222.256	123.312	4.682	1.00	106.37	JS10
ATOM	43534	CE	LYS	J	57	222.977	124.553	4.087	1.00	106.37	JS10
ATOM	43535	NZ	LYS	J	57	224.072	124.257	3.094	1.00	106.37	JS10
ATOM	43536	C	LYS	J	57	219.741	126.039	6.965	1.00	51.33	JS10
ATOM	43537	O	LYS	J	57	220.485	126.936	7.339	1.00	51.33	JS10
ATOM	43538	N	ASP	J	58	218.817	126.214	6.024	1.00	42.39	JS10
ATOM	43539	CA	ASP	J	58	218.675	127.493	5.334	1.00	42.39	JS10
ATOM	43540	CB	ASP	J	58	218.508	127.231	3.851	1.00	121.74	JS10
ATOM	43541	CG	ASP	J	58	219.413	126.139	3.369	1.00	121.74	JS10
ATOM	43542	OD1	ASP	J	58	220.637	126.375	3.314	1.00	121.74	JS10
ATOM	43543	OD2	ASP	J	58	218.904	125.039	3.066	1.00	121.74	JS10
ATOM	43544	C	ASP	J	58	217.560	128.436	5.786	1.00	42.39	JS10
ATOM	43545	O	ASP	J	58	217.163	129.331	5.027	1.00	42.39	JS10
ATOM	43546	N	SER	J	59	217.058	128.252	7.002	1.00	70.00	JS10
ATOM	43547	CA	SER	J	59	215.986	129.100	7.515	1.00	70.00	JS10
ATOM	43548	CB	SER	J	59	215.436	128.508	8.812	1.00	165.70	JS10
ATOM	43549	OG	SER	J	59	214.882	127.218	8.611	1.00	165.70	JS10
ATOM	43550	C	SER	J	59	216.545	130.488	7.776	1.00	70.00	JS10
ATOM	43551	O	SER	J	59	216.279	131.432	7.033	1.00	70.00	JS10
ATOM	43552	N	ARG	J	60	217.293	130.601	8.866	1.00	99.50	JS10
ATOM	43553	CA	ARG	J	60	217.958	131.836	9.240	1.00	99.50	JS10
ATOM	43554	CB	ARG	J	60	218.752	132.351	8.049	1.00	50.09	JS10
ATOM	43555	CG	ARG	J	60	220.082	131.626	7.873	1.00	50.09	JS10
ATOM	43556	CD	ARG	J	60	219.944	130.136	8.144	1.00	50.09	JS10
ATOM	43557	NE	ARG	J	60	220.978	129.665	9.061	1.00	50.09	JS10
ATOM	43558	CZ	ARG	J	60	222.227	129.380	8.708	1.00	50.09	JS10
ATOM	43559	NH1	ARG	J	60	222.631	129.503	7.452	1.00	50.09	JS10
ATOM	43560	NH2	ARG	J	60	223.081	128.981	9.625	1.00	50.09	JS10
ATOM	43561	C	ARG	J	60	217.242	133.006	9.891	1.00	99.50	JS10
ATOM	43562	O	ARG	J	60	216.896	132.946	11.065	1.00	99.50	JS10
ATOM	43563	N	GLU	J	61	217.024	134.079	9.140	1.00	76.01	JS10
ATOM	43564	CA	GLU	J	61	216.434	135.293	9.722	1.00	76.01	JS10
ATOM	43565	CB	GLU	J	61	215.114	135.013	10.445	1.00	83.09	JS10



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ATOM	43566	CG	GLU	J	61	214.518	136.290	11.044	1.00	83.09	JS10
ATOM	43567	CD	GLU	J	61	213.618	136.028	12.222	1.00	83.09	JS10
ATOM	43568	OE1	GLU	J	61	214.080	135.363	13.175	1.00	83.09	JS10
ATOM	43569	OE2	GLU	J	61	212.457	136.494	12.197	1.00	83.09	JS10
ATOM	43570	C	GLU	J	61	217.444	135.905	10.738	1.00	76.01	JS10
ATOM	43571	O	GLU	J	61	217.935	135.223	11.659	1.00	76.01	JS10
ATOM	43572	N	HIS	J	62	217.721	137.199	10.574	1.00	85.22	JS10
ATOM	43573	CA	HIS	J	62	218.697	137.905	11.402	1.00	85.22	JS10
ATOM	43574	CB	HIS	J	62	219.616	138.704	10.482	1.00	71.73	JS10
ATOM	43575	CG	HIS	J	62	220.597	137.855	9.743	1.00	71.73	JS10
ATOM	43576	CD2	HIS	J	62	221.360	136.817	10.159	1.00	71.73	JS10
ATOM	43577	ND1	HIS	J	62	220.886	138.034	8.407	1.00	71.73	JS10
ATOM	43578	CE1	HIS	J	62	221.783	137.140	8.032	1.00	71.73	JS10
ATOM	43579	NE2	HIS	J	62	222.088	136.391	9.076	1.00	71.73	JS10
ATOM	43580	C	HIS	J	62	218.238	138.805	12.549	1.00	85.22	JS10
ATOM	43581	O	HIS	J	62	217.173	139.424	12.505	1.00	85.22	JS10
ATOM	43582	N	PHE	J	63	219.092	138.877	13.568	1.00	81.23	JS10
ATOM	43583	CA	PHE	J	63	218.854	139.674	14.768	1.00	81.23	JS10
ATOM	43584	CB	PHE	J	63	218.546	138.759	15.961	1.00	50.66	JS10
ATOM	43585	CG	PHE	J	63	217.235	138.031	15.855	1.00	50.66	JS10
ATOM	43586	CD1	PHE	J	63	217.164	136.664	16.124	1.00	50.66	JS10
ATOM	43587	CD2	PHE	J	63	216.065	138.716	15.521	1.00	50.66	JS10
ATOM	43588	CE1	PHE	J	63	215.950	135.984	16.066	1.00	50.66	JS10
ATOM	43589	CE2	PHE	J	63	214.845	138.049	15.460	1.00	50.66	JS10
ATOM	43590	CZ	PHE	J	63	214.788	136.676	15.734	1.00	50.66	JS10
ATOM	43591	C	PHE	J	63	220.101	140.487	15.096	1.00	81.23	JS10
ATOM	43592	O	PHE	J	63	221.210	139.962	15.064	1.00	81.23	JS10
ATOM	43593	N	GLU	J	64	219.923	141.761	15.419	1.00	74.13	JS10
ATOM	43594	CA	GLU	J	64	221.057	142.602	15.766	1.00	74.13	JS10
ATOM	43595	CB	GLU	J	64	221.557	143.356	14.535	1.00	100.95	JS10
ATOM	43596	CG	GLU	J	64	220.454	143.912	13.666	1.00	100.95	JS10
ATOM	43597	CD	GLU	J	64	220.408	145.428	13.654	1.00	100.95	JS10
ATOM	43598	OE1	GLU	J	64	220.106	146.022	14.713	1.00	100.95	JS10
ATOM	43599	OE2	GLU	J	64	220.671	146.026	12.584	1.00	100.95	JS10
ATOM	43600	C	GLU	J	64	220.738	143.580	16.884	1.00	74.13	JS10
ATOM	43601	O	GLU	J	64	219.747	144.307	16.826	1.00	74.13	JS10
ATOM	43602	N	LEU	J	65	221.586	143.575	17.909	1.00	75.22	JS10
ATOM	43603	CA	LEU	J	65	221.443	144.456	19.065	1.00	75.22	JS10
ATOM	43604	CB	LEU	J	65	221.689	143.660	20.354	1.00	60.05	JS10
ATOM	43605	CG	LEU	J	65	221.531	144.325	21.731	1.00	60.05	JS10
ATOM	43606	CD1	LEU	J	65	221.637	143.271	22.830	1.00	60.05	JS10
ATOM	43607	CD2	LEU	J	65	222.594	145.389	21.929	1.00	60.05	JS10
ATOM	43608	C	LEU	J	65	222.488	145.556	18.932	1.00	75.22	JS10
ATOM	43609	O	LEU	J	65	223.630	145.365	19.339	1.00	75.22	JS10
ATOM	43610	N	ARG	J	66	222.109	146.703	18.370	1.00	56.75	JS10
ATOM	43611	CA	ARG	J	66	223.061	147.799	18.185	1.00	56.75	JS10
ATOM	43612	CB	ARG	J	66	222.689	148.607	16.938	1.00	114.70	JS10
ATOM	43613	CG	ARG	J	66	221.199	148.692	16.680	1.00	114.70	JS10
ATOM	43614	CD	ARG	J	66	220.901	149.435	15.388	1.00	114.70	JS10
ATOM	43615	NE	ARG	J	66	221.826	149.069	14.316	1.00	114.70	JS10
ATOM	43616	CZ	ARG	J	66	221.618	149.311	13.023	1.00	114.70	JS10
ATOM	43617	NH1	ARG	J	66	220.507	149.918	12.616	1.00	114.70	JS10
ATOM	43618	NH2	ARG	J	66	222.532	148.953	12.130	1.00	114.70	JS10
ATOM	43619	C	ARG	J	66	223.234	148.738	19.381	1.00	56.75	JS10
ATOM	43620	O	ARG	J	66	222.310	149.460	19.757	1.00	56.75	JS10
ATOM	43621	N	THR	J	67	224.432	148.720	19.967	1.00	94.21	JS10
ATOM	43622	CA	THR	J	67	224.772	149.566	21.114	1.00	94.21	JS10
ATOM	43623	CB	THR	J	67	225.899	148.931	21.968	1.00	62.15	JS10
ATOM	43624	OG1	THR	J	67	225.388	147.791	22.672	1.00	62.15	JS10
ATOM	43625	CG2	THR	J	67	226.455	149.940	22.963	1.00	62.15	JS10
ATOM	43626	C	THR	J	67	225.237	150.944	20.643	1.00	94.21	JS10
ATOM	43627	O	THR	J	67	226.212	151.058	19.896	1.00	94.21	JS10
ATOM	43628	N	HIS	J	68	224.542	151.985	21.097	1.00	126.64	JS10
ATOM	43629	CA	HIS	J	68	224.862	153.361	20.716	1.00	126.64	JS10
ATOM	43630	CB	HIS	J	68	223.574	154.145	20.487	1.00	86.28	JS10
ATOM	43631	CG	HIS	J	68	222.728	153.608	19.375	1.00	86.28	JS10
ATOM	43632	CD2	HIS	J	68	221.768	152.652	19.369	1.00	86.28	JS10
ATOM	43633	ND1	HIS	J	68	222.820	154.070	18.079	1.00	86.28	JS10
ATOM	43634	CE1	HIS	J	68	221.949	153.424	17.325	1.00	86.28	JS10
ATOM	43635	NE2	HIS	J	68	221.297	152.558	18.083	1.00	86.28	JS10
ATOM	43636	C	HIS	J	68	225.726	154.114	21.725	1.00	126.64	JS10
ATOM	43637	O	HIS	J	68	225.774	153.772	22.909	1.00	126.64	JS10
ATOM	43638	N	ASN	J	69	226.394	155.156	21.239	1.00	91.27	JS10
ATOM	43639	CA	ASN	J	69	227.274	155.968	22.068	1.00	91.27	JS10
ATOM	43640	CB	ASN	J	69	228.742	155.654	21.744	1.00	89.39	JS10
ATOM	43641	CG	ASN	J	69	229.028	154.163	21.689	1.00	89.39	JS10
ATOM	43642	OD1	ASN	J	69	228.824	153.437	22.662	1.00	89.39	JS10



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ATOM	43643	ND2	ASN	J	69	229.508	153.701	20.540	1.00	89.39	JS10
ATOM	43644	C	ASN	J	69	227.027	157.461	21.845	1.00	91.27	JS10
ATOM	43645	O	ASN	J	69	226.374	157.854	20.877	1.00	91.27	JS10
ATOM	43646	N	ARG	J	70	227.560	158.272	22.760	1.00	124.35	JS10
ATOM	43647	CA	ARG	J	70	227.470	159.736	22.734	1.00	124.35	JS10
ATOM	43648	CB	ARG	J	70	226.092	160.204	23.221	1.00	121.45	JS10
ATOM	43649	CG	ARG	J	70	224.922	159.763	22.344	1.00	121.45	JS10
ATOM	43650	CD	ARG	J	70	225.059	160.285	20.922	1.00	121.45	JS10
ATOM	43651	NE	ARG	J	70	224.014	159.759	20.049	1.00	121.45	JS10
ATOM	43652	CZ	ARG	J	70	223.950	159.986	18.741	1.00	121.45	JS10
ATOM	43653	NH1	ARG	J	70	224.873	160.731	18.150	1.00	121.45	JS10
ATOM	43654	NH2	ARG	J	70	222.961	159.475	18.020	1.00	121.45	JS10
ATOM	43655	C	ARG	J	70	228.566	160.258	23.673	1.00	124.35	JS10
ATOM	43656	O	ARG	J	70	229.007	159.530	24.565	1.00	124.35	JS10
ATOM	43657	N	LEU	J	71	229.009	161.502	23.495	1.00	113.83	JS10
ATOM	43658	CA	LEU	J	71	230.069	162.009	24.364	1.00	113.83	JS10
ATOM	43659	CB	LEU	J	71	231.388	161.993	23.592	1.00	111.25	JS10
ATOM	43660	CG	LEU	J	71	232.679	161.767	24.387	1.00	111.25	JS10
ATOM	43661	CD1	LEU	J	71	232.988	162.981	25.247	1.00	111.25	JS10
ATOM	43662	CD2	LEU	J	71	232.539	160.502	25.237	1.00	111.25	JS10
ATOM	43663	C	LEU	J	71	229.850	163.380	25.034	1.00	113.83	JS10
ATOM	43664	O	LEU	J	71	230.143	163.549	26.225	1.00	113.83	JS10
ATOM	43665	N	VAL	J	72	229.355	164.361	24.289	1.00	167.88	JS10
ATOM	43666	CA	VAL	J	72	229.104	165.676	24.874	1.00	167.88	JS10
ATOM	43667	CB	VAL	J	72	228.180	165.537	26.102	1.00	91.71	JS10
ATOM	43668	CG1	VAL	J	72	227.961	166.877	26.763	1.00	91.71	JS10
ATOM	43669	CG2	VAL	J	72	226.850	164.955	25.659	1.00	91.71	JS10
ATOM	43670	C	VAL	J	72	230.380	166.439	25.262	1.00	167.88	JS10
ATOM	43671	O	VAL	J	72	230.922	167.173	24.435	1.00	167.88	JS10
ATOM	43672	N	ASP	J	73	230.848	166.283	26.505	1.00	92.65	JS10
ATOM	43673	CA	ASP	J	73	232.071	166.963	26.974	1.00	92.65	JS10
ATOM	43674	CB	ASP	J	73	233.170	166.863	25.895	1.00	90.47	JS10
ATOM	43675	CG	ASP	J	73	234.407	166.096	26.364	1.00	90.47	JS10
ATOM	43676	OD1	ASP	J	73	234.261	165.033	27.015	1.00	90.47	JS10
ATOM	43677	OD2	ASP	J	73	235.531	166.555	26.057	1.00	90.47	JS10
ATOM	43678	C	ASP	J	73	231.887	168.447	27.373	1.00	92.65	JS10
ATOM	43679	O	ASP	J	73	231.564	169.294	26.535	1.00	92.65	JS10
ATOM	43680	N	ILE	J	74	232.096	168.750	28.656	1.00	116.62	JS10
ATOM	43681	CA	ILE	J	74	231.988	170.123	29.169	1.00	116.62	JS10
ATOM	43682	CB	ILE	J	74	230.775	170.315	30.119	1.00	79.00	JS10
ATOM	43683	CG2	ILE	J	74	229.712	171.164	29.435	1.00	79.00	JS10
ATOM	43684	CG1	ILE	J	74	230.252	168.955	30.593	1.00	79.00	JS10
ATOM	43685	CD1	ILE	J	74	229.068	169.034	31.546	1.00	79.00	JS10
ATOM	43686	C	ILE	J	74	233.237	170.528	29.946	1.00	116.62	JS10
ATOM	43687	O	ILE	J	74	233.497	170.007	31.031	1.00	116.62	JS10
ATOM	43688	N	ILE	J	75	234.007	171.456	29.385	1.00	182.98	JS10
ATOM	43689	CA	ILE	J	75	235.224	171.939	30.030	1.00	182.98	JS10
ATOM	43690	CB	ILE	J	75	236.299	172.323	28.980	1.00	127.73	JS10
ATOM	43691	CG2	ILE	J	75	237.455	173.046	29.653	1.00	127.73	JS10
ATOM	43692	CG1	ILE	J	75	236.797	171.066	28.260	1.00	127.73	JS10
ATOM	43693	CD1	ILE	J	75	237.898	171.320	27.247	1.00	127.73	JS10
ATOM	43694	C	ILE	J	75	234.877	173.158	30.885	1.00	182.98	JS10
ATOM	43695	O	ILE	J	75	234.090	174.001	30.463	1.00	182.98	JS10
ATOM	43696	N	ASN	J	76	235.466	173.239	32.079	1.00	99.02	JS10
ATOM	43697	CA	ASN	J	76	235.218	174.334	33.026	1.00	99.02	JS10
ATOM	43698	CB	ASN	J	76	234.969	175.667	32.301	1.00	144.49	JS10
ATOM	43699	CG	ASN	J	76	236.068	176.019	31.321	1.00	144.49	JS10
ATOM	43700	OD1	ASN	J	76	237.238	176.110	31.689	1.00	144.49	JS10
ATOM	43701	ND2	ASN	J	76	235.692	176.228	30.064	1.00	144.49	JS10
ATOM	43702	C	ASN	J	76	233.999	174.024	33.904	1.00	99.02	JS10
ATOM	43703	O	ASN	J	76	232.943	174.646	33.762	1.00	99.02	JS10
ATOM	43704	N	PRO	J	77	234.125	173.045	34.811	1.00	160.56	JS10
ATOM	43705	CD	PRO	J	77	235.313	172.228	35.113	1.00	117.77	JS10
ATOM	43706	CA	PRO	J	77	233.002	172.696	35.690	1.00	160.56	JS10
ATOM	43707	CB	PRO	J	77	233.524	171.472	36.438	1.00	117.77	JS10
ATOM	43708	CG	PRO	J	77	235.008	171.727	36.503	1.00	117.77	JS10
ATOM	43709	C	PRO	J	77	232.714	173.881	36.610	1.00	160.56	JS10
ATOM	43710	O	PRO	J	77	233.634	174.618	36.963	1.00	160.56	JS10
ATOM	43711	N	ASN	J	78	231.457	174.075	37.003	1.00	126.02	JS10
ATOM	43712	CA	ASN	J	78	231.134	175.217	37.854	1.00	126.02	JS10
ATOM	43713	CB	ASN	J	78	230.836	176.443	36.982	1.00	197.98	JS10
ATOM	43714	CG	ASN	J	78	232.005	176.840	36.105	1.00	197.98	JS10
ATOM	43715	OD1	ASN	J	78	233.075	177.193	36.599	1.00	197.98	JS10
ATOM	43716	ND2	ASN	J	78	231.805	176.786	34.793	1.00	197.98	JS10
ATOM	43717	C	ASN	J	78	229.988	175.060	38.849	1.00	126.02	JS10
ATOM	43718	O	ASN	J	78	229.006	175.793	38.754	1.00	126.02	JS10
ATOM	43719	N	ARG	J	79	230.110	174.137	39.801	1.00	119.86	JS10



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ATOM	43720	CA	ARG	J	79	229.072	173.940	40.821	1.00119.86	JS10
ATOM	43721	CB	ARG	J	79	229.185	175.030	41.893	1.00144.14	JS10
ATOM	43722	CG	ARG	J	79	230.154	174.708	43.015	1.00144.14	JS10
ATOM	43723	CD	ARG	J	79	229.507	173.796	44.046	1.00144.14	JS10
ATOM	43724	NE	ARG	J	79	230.483	173.226	44.970	1.00144.14	JS10
ATOM	43725	CZ	ARG	J	79	231.368	172.293	44.636	1.00144.14	JS10
ATOM	43726	NH1	ARG	J	79	231.401	171.820	43.397	1.00144.14	JS10
ATOM	43727	NH2	ARG	J	79	232.222	171.835	45.540	1.00144.14	JS10
ATOM	43728	C	ARG	J	79	227.639	173.912	40.287	1.00119.86	JS10
ATOM	43729	O	ARG	J	79	226.978	172.873	40.332	1.00119.86	JS10
ATOM	43730	N	LYS	J	80	227.156	175.062	39.813	1.00183.77	JS10
ATOM	43731	CA	LYS	J	80	225.807	175.189	39.257	1.00183.77	JS10
ATOM	43732	CB	LYS	J	80	225.550	176.626	38.796	1.00131.49	JS10
ATOM	43733	CG	LYS	J	80	224.144	176.870	38.261	1.00131.49	JS10
ATOM	43734	CD	LYS	J	80	223.132	176.990	39.383	1.00131.49	JS10
ATOM	43735	CE	LYS	J	80	223.403	178.228	40.225	1.00131.49	JS10
ATOM	43736	NZ	LYS	J	80	222.425	178.373	41.339	1.00131.49	JS10
ATOM	43737	C	LYS	J	80	225.653	174.247	38.068	1.00183.77	JS10
ATOM	43738	O	LYS	J	80	224.541	173.913	37.656	1.00183.77	JS10
ATOM	43739	N	THR	J	81	226.786	173.842	37.505	1.00197.98	JS10
ATOM	43740	CA	THR	J	81	226.790	172.921	36.382	1.00197.98	JS10
ATOM	43741	CB	THR	J	81	228.222	172.681	35.868	1.00128.95	JS10
ATOM	43742	OG1	THR	J	81	228.935	173.922	35.833	1.00128.95	JS10
ATOM	43743	CG2	THR	J	81	228.188	172.095	34.469	1.00128.95	JS10
ATOM	43744	C	THR	J	81	226.245	171.621	36.958	1.00197.98	JS10
ATOM	43745	O	THR	J	81	225.263	171.061	36.465	1.00197.98	JS10
ATOM	43746	N	ILE	J	82	226.894	171.169	38.028	1.00141.00	JS10
ATOM	43747	CA	ILE	J	82	226.520	169.951	38.736	1.00141.00	JS10
ATOM	43748	CB	ILE	J	82	227.601	169.584	39.792	1.00101.30	JS10
ATOM	43749	CG2	ILE	J	82	227.281	168.238	40.436	1.00101.30	JS10
ATOM	43750	CG1	ILE	J	82	228.982	169.542	39.123	1.00101.30	JS10
ATOM	43751	CD1	ILE	J	82	230.142	169.251	40.068	1.00101.30	JS10
ATOM	43752	C	ILE	J	82	225.179	170.185	39.430	1.00141.00	JS10
ATOM	43753	O	ILE	J	82	224.671	169.318	40.142	1.00141.00	JS10
ATOM	43754	N	GLU	J	83	224.612	171.368	39.211	1.00150.58	JS10
ATOM	43755	CA	GLU	J	83	223.331	171.737	39.802	1.00150.58	JS10
ATOM	43756	CB	GLU	J	83	223.279	173.247	40.050	1.00167.15	JS10
ATOM	43757	CG	GLU	J	83	222.174	173.696	40.987	1.00167.15	JS10
ATOM	43758	CD	GLU	J	83	222.595	173.648	42.443	1.00167.15	JS10
ATOM	43759	OE1	GLU	J	83	223.193	172.631	42.857	1.00167.15	JS10
ATOM	43760	OE2	GLU	J	83	222.322	174.628	43.172	1.00167.15	JS10
ATOM	43761	C	GLU	J	83	222.211	171.341	38.843	1.00150.58	JS10
ATOM	43762	O	GLU	J	83	221.266	170.646	39.224	1.00150.58	JS10
ATOM	43763	N	GLN	J	84	222.328	171.790	37.595	1.00197.68	JS10
ATOM	43764	CA	GLN	J	84	221.336	171.488	36.570	1.00197.68	JS10
ATOM	43765	CB	GLN	J	84	221.503	172.426	35.378	1.00171.24	JS10
ATOM	43766	CG	GLN	J	84	221.457	173.892	35.749	1.00171.24	JS10
ATOM	43767	CD	GLN	J	84	221.517	174.798	34.538	1.00171.24	JS10
ATOM	43768	OE1	GLN	J	84	220.612	174.795	33.701	1.00171.24	JS10
ATOM	43769	NE2	GLN	J	84	222.587	175.581	34.435	1.00171.24	JS10
ATOM	43770	C	GLN	J	84	221.491	170.049	36.109	1.00197.68	JS10
ATOM	43771	O	GLN	J	84	220.640	169.518	35.395	1.00197.68	JS10
ATOM	43772	N	LEU	J	85	222.593	169.429	36.515	1.00176.46	JS10
ATOM	43773	CA	LEU	J	85	222.866	168.042	36.165	1.00176.46	JS10
ATOM	43774	CB	LEU	J	85	224.338	167.869	35.760	1.00140.05	JS10
ATOM	43775	CG	LEU	J	85	224.870	168.677	34.570	1.00140.05	JS10
ATOM	43776	CD1	LEU	J	85	226.309	168.274	34.286	1.00140.05	JS10
ATOM	43777	CD2	LEU	J	85	224.007	168.432	33.341	1.00140.05	JS10
ATOM	43778	C	LEU	J	85	222.555	167.156	37.368	1.00176.46	JS10
ATOM	43779	O	LEU	J	85	221.393	166.972	37.736	1.00176.46	JS10
ATOM	43780	N	MET	J	86	223.612	166.624	37.974	1.00151.56	JS10
ATOM	43781	CA	MET	J	86	223.524	165.751	39.139	1.00151.56	JS10
ATOM	43782	CB	MET	J	86	223.740	166.557	40.417	1.00160.67	JS10
ATOM	43783	CG	MET	J	86	224.219	165.698	41.562	1.00160.67	JS10
ATOM	43784	SD	MET	J	86	225.629	164.693	41.037	1.00160.67	JS10
ATOM	43785	CE	MET	J	86	224.812	163.161	40.519	1.00160.67	JS10
ATOM	43786	C	MET	J	86	222.235	164.941	39.262	1.00151.56	JS10
ATOM	43787	O	MET	J	86	222.197	163.769	38.880	1.00151.56	JS10
ATOM	43788	N	THR	J	87	221.188	165.553	39.807	1.00154.55	JS10
ATOM	43789	CA	THR	J	87	219.912	164.861	39.968	1.00154.55	JS10
ATOM	43790	CB	THR	J	87	219.459	164.830	41.449	1.00188.83	JS10
ATOM	43791	OG1	THR	J	87	220.553	164.422	42.278	1.00 99.62	JS10
ATOM	43792	CG2	THR	J	87	218.300	163.844	41.636	1.00 99.62	JS10
ATOM	43793	C	THR	J	87	218.813	165.534	39.156	1.00154.55	JS10
ATOM	43794	O	THR	J	87	218.017	166.301	39.699	1.00154.55	JS10
ATOM	43795	N	LEU	J	88	218.770	165.246	37.858	1.00166.43	JS10
ATOM	43796	CA	LEU	J	88	217.755	165.828	36.984	1.00166.43	JS10



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ATOM	43797	CB	LEU	J	88	218.108	167.286	36.658	1.00162.73	JS10
ATOM	43798	CG	LEU	J	88	217.773	168.324	37.738	1.00 86.85	JS10
ATOM	43799	CD1	LEU	J	88	218.335	169.686	37.355	1.00 86.85	JS10
ATOM	43800	CD2	LEU	J	88	216.253	168.388	37.923	1.00 86.85	JS10
ATOM	43801	C	LEU	J	88	217.537	165.043	35.691	1.00166.43	JS10
ATOM	43802	O	LEU	J	88	216.805	165.489	34.805	1.00166.43	JS10
ATOM	43803	N	ASP	J	89	218.163	163.873	35.587	1.00180.19	JS10
ATOM	43804	CA	ASP	J	89	218.017	163.039	34.396	1.00180.19	JS10
ATOM	43805	CB	ASP	J	89	219.026	161.887	34.415	1.00197.85	JS10
ATOM	43806	CG	ASP	J	89	218.746	160.882	35.516	1.00191.11	JS10
ATOM	43807	OD1	ASP	J	89	218.744	161.280	36.701	1.00191.11	JS10
ATOM	43808	OD2	ASP	J	89	218.530	159.694	35.193	1.00191.11	JS10
ATOM	43809	C	ASP	J	89	216.602	162.478	34.340	1.00180.19	JS10
ATOM	43810	O	ASP	J	89	215.782	162.761	35.216	1.00180.19	JS10
ATOM	43811	N	LEU	J	90	216.316	161.680	33.316	1.00197.98	JS10
ATOM	43812	CA	LEU	J	90	214.986	161.098	33.174	1.00197.98	JS10
ATOM	43813	CB	LEU	J	90	214.055	162.091	32.459	1.00197.98	JS10
ATOM	43814	CG	LEU	J	90	213.707	163.398	33.191	1.00150.33	JS10
ATOM	43815	CD1	LEU	J	90	212.824	164.270	32.307	1.00150.33	JS10
ATOM	43816	CD2	LEU	J	90	212.996	163.083	34.504	1.00150.33	JS10
ATOM	43817	C	LEU	J	90	214.930	159.734	32.473	1.00197.98	JS10
ATOM	43818	O	LEU	J	90	214.272	158.816	32.961	1.00197.98	JS10
ATOM	43819	N	PRO	J	91	215.623	159.575	31.329	1.00112.67	JS10
ATOM	43820	CD	PRO	J	91	216.570	160.509	30.697	1.00135.73	JS10
ATOM	43821	CA	PRO	J	91	215.602	158.290	30.611	1.00112.67	JS10
ATOM	43822	CB	PRO	J	91	216.651	158.493	29.509	1.00154.82	JS10
ATOM	43823	CG	PRO	J	91	217.548	159.566	30.060	1.00135.73	JS10
ATOM	43824	C	PRO	J	91	215.844	157.025	31.455	1.00112.67	JS10
ATOM	43825	O	PRO	J	91	216.545	157.065	32.469	1.00112.67	JS10
ATOM	43826	N	THR	J	92	215.251	155.911	31.016	1.00 85.35	JS10
ATOM	43827	CA	THR	J	92	215.348	154.612	31.700	1.00 85.35	JS10
ATOM	43828	CB	THR	J	92	213.960	153.979	31.871	1.00 74.70	JS10
ATOM	43829	OG1	THR	J	92	213.054	154.955	32.400	1.00 74.70	JS10
ATOM	43830	CG2	THR	J	92	214.034	152.774	32.810	1.00 74.70	JS10
ATOM	43831	C	THR	J	92	216.220	153.567	30.991	1.00 85.35	JS10
ATOM	43832	O	THR	J	92	216.801	152.687	31.635	1.00 85.35	JS10
ATOM	43833	N	GLY	J	93	216.285	153.652	29.666	1.00103.88	JS10
ATOM	43834	CA	GLY	J	93	217.080	152.708	28.901	1.00103.88	JS10
ATOM	43835	C	GLY	J	93	218.512	153.170	28.748	1.00103.88	JS10
ATOM	43836	O	GLY	J	93	219.324	152.510	28.097	1.00103.88	JS10
ATOM	43837	N	VAL	J	94	218.818	154.317	29.346	1.00 96.92	JS10
ATOM	43838	CA	VAL	J	94	220.160	154.879	29.292	1.00 96.92	JS10
ATOM	43839	CB	VAL	J	94	220.140	156.424	29.257	1.00 53.62	JS10
ATOM	43840	CG1	VAL	J	94	221.563	156.958	29.095	1.00 53.62	JS10
ATOM	43841	CG2	VAL	J	94	219.255	156.915	28.121	1.00 53.62	JS10
ATOM	43842	C	VAL	J	94	220.953	154.456	30.517	1.00 96.92	JS10
ATOM	43843	O	VAL	J	94	220.395	154.038	31.532	1.00 96.92	JS10
ATOM	43844	N	GLU	J	95	222.267	154.567	30.402	1.00 91.75	JS10
ATOM	43845	CA	GLU	J	95	223.176	154.222	31.478	1.00 91.75	JS10
ATOM	43846	CB	GLU	J	95	223.395	152.708	31.511	1.00101.59	JS10
ATOM	43847	CG	GLU	J	95	224.348	152.236	32.582	1.00101.59	JS10
ATOM	43848	CD	GLU	J	95	225.770	152.132	32.074	1.00101.59	JS10
ATOM	43849	OE1	GLU	J	95	226.296	153.140	31.558	1.00101.59	JS10
ATOM	43850	OE2	GLU	J	95	226.365	151.038	32.188	1.00101.59	JS10
ATOM	43851	C	GLU	J	95	224.456	154.973	31.145	1.00 91.75	JS10
ATOM	43852	O	GLU	J	95	225.112	154.690	30.142	1.00 91.75	JS10
ATOM	43853	N	ILE	J	96	224.792	155.948	31.983	1.00138.92	JS10
ATOM	43854	CA	ILE	J	96	225.968	156.773	31.756	1.00138.92	JS10
ATOM	43855	CB	ILE	J	96	225.721	158.234	32.165	1.00 75.51	JS10
ATOM	43856	CG2	ILE	J	96	226.714	159.158	31.451	1.00 75.51	JS10
ATOM	43857	CG1	ILE	J	96	224.297	158.640	31.809	1.00 75.51	JS10
ATOM	43858	CD1	ILE	J	96	223.997	160.080	32.140	1.00 75.51	JS10
ATOM	43859	C	ILE	J	96	227.220	156.343	32.487	1.00138.92	JS10
ATOM	43860	O	ILE	J	96	227.226	155.407	33.286	1.00138.92	JS10
ATOM	43861	N	GLU	J	97	228.278	157.079	32.184	1.00 94.28	JS10
ATOM	43862	CA	GLU	J	97	229.599	156.911	32.752	1.00 94.28	JS10
ATOM	43863	CB	GLU	J	97	230.367	155.797	32.034	1.00192.75	JS10
ATOM	43864	CG	GLU	J	97	229.898	154.392	32.369	1.00192.75	JS10
ATOM	43865	CD	GLU	J	97	230.074	154.062	33.837	1.00192.75	JS10
ATOM	43866	OE1	GLU	J	97	231.217	154.161	34.330	1.00192.75	JS10
ATOM	43867	OE2	GLU	J	97	229.073	153.705	34.495	1.00192.75	JS10
ATOM	43868	C	GLU	J	97	230.263	158.250	32.484	1.00 94.28	JS10
ATOM	43869	O	GLU	J	97	230.230	158.747	31.356	1.00 94.28	JS10
ATOM	43870	N	ILE	J	98	230.827	158.856	33.521	1.00161.77	JS10
ATOM	43871	CA	ILE	J	98	231.501	160.134	33.349	1.00161.77	JS10
ATOM	43872	CB	ILE	J	98	230.746	161.312	34.012	1.00115.61	JS10
ATOM	43873	CG2	ILE	J	98	231.024	162.590	33.235	1.00115.61	JS10



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ATOM	43874	CG1	ILE	J	98	229.241	161.056	34.038	1.00115.61	JS10
ATOM	43875	CD1	ILE	J	98	228.465	162.102	34.825	1.00115.61	JS10
ATOM	43876	C	ILE	J	98	232.857	160.045	34.016	1.00161.77	JS10
ATOM	43877	O	ILE	J	98	233.051	159.277	34.958	1.00161.77	JS10
ATOM	43878	N	LYS	J	99	233.794	160.835	33.514	1.00137.01	JS10
ATOM	43879	CA	LYS	J	99	235.131	160.876	34.069	1.00137.01	JS10
ATOM	43880	CB	LYS	J	99	235.987	159.732	33.520	1.00149.13	JS10
ATOM	43881	CG	LYS	J	99	235.623	158.368	34.088	1.00149.13	JS10
ATOM	43882	CD	LYS	J	99	236.563	157.281	33.596	1.00149.13	JS10
ATOM	43883	CE	LYS	J	99	236.175	155.926	34.163	1.00149.13	JS10
ATOM	43884	NZ	LYS	J	99	237.067	154.845	33.663	1.00149.13	JS10
ATOM	43885	C	LYS	J	99	235.734	162.216	33.700	1.00137.01	JS10
ATOM	43886	O	LYS	J	99	236.458	162.335	32.714	1.00137.01	JS10
ATOM	43887	N	ALA	J	100	235.410	163.228	34.497	1.00181.16	JS10
ATOM	43888	CA	ALA	J	100	235.912	164.574	34.269	1.00181.16	JS10
ATOM	43889	CB	ALA	J	100	235.354	165.520	35.326	1.00129.80	JS10
ATOM	43890	C	ALA	J	100	237.438	164.581	34.305	1.00181.16	JS10
ATOM	43891	O	ALA	J	100	238.029	163.537	34.666	1.00181.16	JS10
ATOM	43892	OXT	ALA	J	100	238.023	165.633	33.974	1.00129.80	JS10
TER	43892	ALA	J	100						JS10
ATOM	43893	CB	LYS	K	11	227.232	115.922	-81.074	1.00160.13	KS11
ATOM	43894	CG	LYS	K	11	228.454	116.159	-80.198	1.00160.13	KS11
ATOM	43895	CD	LYS	K	11	229.451	115.016	-80.240	1.00160.13	KS11
ATOM	43896	CE	LYS	K	11	230.617	115.303	-79.302	1.00160.13	KS11
ATOM	43897	NZ	LYS	K	11	231.601	114.190	-79.260	1.00160.13	KS11
ATOM	43898	C	LYS	K	11	225.050	116.848	-81.925	1.00126.96	KS11
ATOM	43899	O	LYS	K	11	224.842	115.757	-82.455	1.00126.96	KS11
ATOM	43900	N	LYS	K	11	225.743	117.177	-79.558	1.00126.96	KS11
ATOM	43901	CA	LYS	K	11	226.217	117.062	-80.966	1.00126.96	KS11
ATOM	43902	N	ARG	K	12	224.294	117.923	-82.125	1.00 88.70	KS11
ATOM	43903	CA	ARG	K	12	223.126	117.966	-83.001	1.00 88.70	KS11
ATOM	43904	CB	ARG	K	12	221.898	117.364	-82.325	1.00129.72	KS11
ATOM	43905	CG	ARG	K	12	221.836	115.864	-82.276	1.00129.72	KS11
ATOM	43906	CD	ARG	K	12	220.501	115.459	-81.688	1.00129.72	KS11
ATOM	43907	NE	ARG	K	12	220.266	114.025	-81.775	1.00129.72	KS11
ATOM	43908	CZ	ARG	K	12	219.129	113.435	-81.421	1.00129.72	KS11
ATOM	43909	NH1	ARG	K	12	218.120	114.157	-80.950	1.00129.72	KS11
ATOM	43910	NH2	ARG	K	12	218.996	112.125	-81.552	1.00129.72	KS11
ATOM	43911	C	ARG	K	12	222.837	119.437	-83.239	1.00 88.70	KS11
ATOM	43912	O	ARG	K	12	222.383	119.837	-84.309	1.00 88.70	KS11
ATOM	43913	N	GLN	K	13	223.099	120.232	-82.209	1.00103.66	KS11
ATOM	43914	CA	GLN	K	13	222.866	121.665	-82.259	1.00103.66	KS11
ATOM	43915	CB	GLN	K	13	223.677	122.290	-83.393	1.00116.80	KS11
ATOM	43916	CG	GLN	K	13	225.135	121.865	-83.359	1.00116.80	KS11
ATOM	43917	CD	GLN	K	13	225.708	121.862	-81.946	1.00116.80	KS11
ATOM	43918	OE1	GLN	K	13	225.892	122.916	-81.331	1.00116.80	KS11
ATOM	43919	NE2	GLN	K	13	225.982	120.669	-81.422	1.00116.80	KS11
ATOM	43920	C	GLN	K	13	221.378	121.904	-82.447	1.00103.66	KS11
ATOM	43921	O	GLN	K	13	220.868	121.940	-83.570	1.00103.66	KS11
ATOM	43922	N	VAL	K	14	220.689	122.059	-81.324	1.00 74.63	KS11
ATOM	43923	CA	VAL	K	14	219.256	122.272	-81.328	1.00 74.63	KS11
ATOM	43924	CB	VAL	K	14	218.612	121.394	-80.260	1.00 72.43	KS11
ATOM	43925	CG1	VAL	K	14	217.127	121.698	-80.154	1.00 72.43	KS11
ATOM	43926	CG2	VAL	K	14	218.839	119.931	-80.614	1.00 72.43	KS11
ATOM	43927	C	VAL	K	14	218.863	123.735	-81.123	1.00 74.63	KS11
ATOM	43928	O	VAL	K	14	217.869	124.208	-81.685	1.00 74.63	KS11
ATOM	43929	N	ALA	K	15	219.646	124.445	-80.317	1.00108.36	KS11
ATOM	43930	CA	ALA	K	15	219.398	125.858	-80.052	1.00108.36	KS11
ATOM	43931	CB	ALA	K	15	219.257	126.622	-81.363	1.00 45.11	KS11
ATOM	43932	C	ALA	K	15	218.176	126.113	-79.191	1.00108.36	KS11
ATOM	43933	O	ALA	K	15	218.292	126.688	-78.112	1.00108.36	KS11
ATOM	43934	N	SER	K	16	217.008	125.696	-79.679	1.00 98.97	KS11
ATOM	43935	CA	SER	K	16	215.747	125.896	-78.964	1.00 98.97	KS11
ATOM	43936	CB	SER	K	16	214.886	126.895	-79.735	1.00106.71	KS11
ATOM	43937	OG	SER	K	16	214.803	126.517	-81.098	1.00106.71	KS11
ATOM	43938	C	SER	K	16	214.953	124.604	-78.735	1.00 98.97	KS11
ATOM	43939	O	SER	K	16	215.026	123.671	-79.537	1.00 98.97	KS11
ATOM	43940	N	GLY	K	17	214.193	124.565	-77.638	1.00 86.13	KS11
ATOM	43941	CA	GLY	K	17	213.391	123.392	-77.318	1.00 86.13	KS11
ATOM	43942	C	GLY	K	17	212.652	123.468	-75.988	1.00 86.13	KS11
ATOM	43943	O	GLY	K	17	212.493	124.549	-75.419	1.00 86.13	KS11
ATOM	43944	N	ARG	K	18	212.204	122.312	-75.493	1.00 56.37	KS11
ATOM	43945	CA	ARG	K	18	211.475	122.223	-74.227	1.00 56.37	KS11
ATOM	43946	CB	ARG	K	18	210.291	121.262	-74.370	1.00 56.80	KS11
ATOM	43947	CG	ARG	K	18	209.120	121.841	-75.103	1.00 56.80	KS11
ATOM	43948	CD	ARG	K	18	208.944	121.238	-76.464	1.00 56.80	KS11
ATOM	43949	NE	ARG	K	18	208.152	120.012	-76.433	1.00 56.80	KS11



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ATOM	43950	CZ	ARG	K	18	207.149	119.764	-77.275	1.00	56.80	KS11
ATOM	43951	NH1	ARG	K	18	206.822	120.666	-78.194	1.00	56.80	KS11
ATOM	43952	NH2	ARG	K	18	206.487	118.611	-77.224	1.00	56.80	KS11
ATOM	43953	C	ARG	K	18	212.282	121.796	-72.995	1.00	56.37	KS11
ATOM	43954	O	ARG	K	18	213.266	121.053	-73.080	1.00	56.37	KS11
ATOM	43955	N	ALA	K	19	211.845	122.280	-71.840	1.00	71.25	KS11
ATOM	43956	CA	ALA	K	19	212.471	121.926	-70.576	1.00	71.25	KS11
ATOM	43957	CB	ALA	K	19	213.123	123.133	-69.938	1.00	57.42	KS11
ATOM	43958	C	ALA	K	19	211.335	121.422	-69.704	1.00	71.25	KS11
ATOM	43959	O	ALA	K	19	210.463	122.190	-69.296	1.00	71.25	KS11
ATOM	43960	N	TYR	K	20	211.325	120.124	-69.445	1.00	46.38	KS11
ATOM	43961	CA	TYR	K	20	210.278	119.547	-68.632	1.00	46.38	KS11
ATOM	43962	CB	TYR	K	20	209.855	118.194	-69.184	1.00	68.42	KS11
ATOM	43963	CG	TYR	K	20	208.976	118.257	-70.412	1.00	68.42	KS11
ATOM	43964	CD1	TYR	K	20	209.519	118.451	-71.679	1.00	68.42	KS11
ATOM	43965	CE1	TYR	K	20	208.711	118.445	-72.817	1.00	68.42	KS11
ATOM	43966	CD2	TYR	K	20	207.598	118.068	-70.309	1.00	68.42	KS11
ATOM	43967	CE2	TYR	K	20	206.782	118.060	-71.433	1.00	68.42	KS11
ATOM	43968	CZ	TYR	K	20	207.343	118.246	-72.686	1.00	68.42	KS11
ATOM	43969	OH	TYR	K	20	206.530	118.208	-73.801	1.00	68.42	KS11
ATOM	43970	C	TYR	K	20	210.774	119.375	-67.218	1.00	46.38	KS11
ATOM	43971	O	TYR	K	20	211.820	118.763	-66.994	1.00	46.38	KS11
ATOM	43972	N	ILE	K	21	210.029	119.927	-66.267	1.00	53.09	KS11
ATOM	43973	CA	ILE	K	21	210.392	119.815	-64.865	1.00	53.09	KS11
ATOM	43974	CB	ILE	K	21	210.463	121.175	-64.192	1.00	49.69	KS11
ATOM	43975	CG2	ILE	K	21	211.123	121.028	-62.823	1.00	49.69	KS11
ATOM	43976	CG1	ILE	K	21	211.253	122.142	-65.069	1.00	49.69	KS11
ATOM	43977	CD1	ILE	K	21	211.558	123.470	-64.394	1.00	49.69	KS11
ATOM	43978	C	ILE	K	21	209.357	118.982	-64.132	1.00	53.09	KS11
ATOM	43979	O	ILE	K	21	208.191	119.356	-64.038	1.00	53.09	KS11
ATOM	43980	N	HIS	K	22	209.792	117.849	-63.608	1.00	56.96	KS11
ATOM	43981	CA	HIS	K	22	208.901	116.956	-62.887	1.00	56.96	KS11
ATOM	43982	CB	HIS	K	22	209.101	115.538	-63.392	1.00	62.27	KS11
ATOM	43983	CG	HIS	K	22	208.405	114.506	-62.572	1.00	62.27	KS11
ATOM	43984	CD2	HIS	K	22	208.884	113.601	-61.688	1.00	62.27	KS11
ATOM	43985	ND1	HIS	K	22	207.041	114.317	-62.618	1.00	62.27	KS11
ATOM	43986	CE1	HIS	K	22	206.711	113.334	-61.801	1.00	62.27	KS11
ATOM	43987	NE2	HIS	K	22	207.812	112.882	-61.225	1.00	62.27	KS11
ATOM	43988	C	HIS	K	22	209.162	117.000	-61.382	1.00	56.96	KS11
ATOM	43989	O	HIS	K	22	210.009	116.266	-60.861	1.00	56.96	KS11
ATOM	43990	N	ALA	K	23	208.432	117.859	-60.681	1.00	61.22	KS11
ATOM	43991	CA	ALA	K	23	208.597	117.981	-59.240	1.00	61.22	KS11
ATOM	43992	CB	ALA	K	23	208.299	119.406	-58.809	1.00	79.23	KS11
ATOM	43993	C	ALA	K	23	207.711	117.007	-58.463	1.00	61.22	KS11
ATOM	43994	O	ALA	K	23	206.647	116.586	-58.927	1.00	61.22	KS11
ATOM	43995	N	SER	K	24	208.166	116.646	-57.275	1.00	46.60	KS11
ATOM	43996	CA	SER	K	24	207.412	115.748	-56.423	1.00	46.60	KS11
ATOM	43997	CB	SER	K	24	207.478	114.317	-56.954	1.00	54.68	KS11
ATOM	43998	OG	SER	K	24	208.594	113.619	-56.427	1.00	54.68	KS11
ATOM	43999	C	SER	K	24	208.048	115.830	-55.044	1.00	46.60	KS11
ATOM	44000	O	SER	K	24	209.203	116.236	-54.914	1.00	46.60	KS11
ATOM	44001	N	TYR	K	25	207.306	115.456	-54.012	1.00	91.25	KS11
ATOM	44002	CA	TYR	K	25	207.852	115.532	-52.671	1.00	91.25	KS11
ATOM	44003	CB	TYR	K	25	206.737	115.359	-51.634	1.00100.96	KS11	
ATOM	44004	CG	TYR	K	25	205.784	116.526	-51.632	1.00100.96	KS11	
ATOM	44005	CD1	TYR	K	25	204.677	116.552	-52.481	1.00100.96	KS11	
ATOM	44006	CE1	TYR	K	25	203.860	117.683	-52.563	1.00100.96	KS11	
ATOM	44007	CD2	TYR	K	25	206.048	117.658	-50.856	1.00100.96	KS11	
ATOM	44008	CE2	TYR	K	25	205.241	118.793	-50.931	1.00100.96	KS11	
ATOM	44009	CZ	TYR	K	25	204.150	118.802	-51.787	1.00100.96	KS11	
ATOM	44010	OH	TYR	K	25	203.367	119.934	-51.878	1.00100.96	KS11	
ATOM	44011	C	TYR	K	25	208.958	114.521	-52.437	1.00	91.25	KS11
ATOM	44012	O	TYR	K	25	209.497	114.434	-51.330	1.00	91.25	KS11
ATOM	44013	N	ASN	K	26	209.320	113.773	-53.480	1.00	46.70	KS11
ATOM	44014	CA	ASN	K	26	210.362	112.765	-53.328	1.00	46.70	KS11
ATOM	44015	CB	ASN	K	26	209.799	111.387	-53.618	1.00	54.49	KS11
ATOM	44016	CG	ASN	K	26	209.543	110.613	-52.357	1.00	54.49	KS11
ATOM	44017	OD1	ASN	K	26	210.270	110.774	-51.368	1.00	54.49	KS11
ATOM	44018	ND2	ASN	K	26	208.521	109.757	-52.373	1.00	54.49	KS11
ATOM	44019	C	ASN	K	26	211.665	112.922	-54.089	1.00	46.70	KS11
ATOM	44020	O	ASN	K	26	212.583	112.109	-53.890	1.00	46.70	KS11
ATOM	44021	N	ASN	K	27	211.743	113.961	-54.928	1.00	49.31	KS11
ATOM	44022	CA	ASN	K	27	212.919	114.266	-55.758	1.00	49.31	KS11
ATOM	44023	CB	ASN	K	27	213.717	112.969	-56.018	1.00	54.65	KS11
ATOM	44024	CG	ASN	K	27	214.431	112.946	-57.362	1.00	54.65	KS11
ATOM	44025	OD1	ASN	K	27	215.377	113.696	-57.610	1.00	54.65	KS11
ATOM	44026	ND2	ASN	K	27	213.982	112.055	-58.232	1.00	54.65	KS11



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ATOM	44027	C	ASN	K	27	212.481	114.924	-57.077	1.00	49.31	KS11
ATOM	44028	O	ASN	K	27	211.500	114.514	-57.697	1.00	49.31	KS11
ATOM	44029	N	THR	K	28	213.195	115.965	-57.488	1.00	47.69	KS11
ATOM	44030	CA	THR	K	28	212.880	116.654	-58.734	1.00	47.69	KS11
ATOM	44031	CB	THR	K	28	213.417	118.068	-58.750	1.00	64.04	KS11
ATOM	44032	OG1	THR	K	28	213.328	118.626	-57.437	1.00	64.04	KS11
ATOM	44033	CG2	THR	K	28	212.623	118.910	-59.720	1.00	64.04	KS11
ATOM	44034	C	THR	K	28	213.603	115.912	-59.833	1.00	47.69	KS11
ATOM	44035	O	THR	K	28	214.453	115.064	-59.562	1.00	47.69	KS11
ATOM	44036	N	ILE	K	29	213.285	116.233	-61.077	1.00	47.27	KS11
ATOM	44037	CA	ILE	K	29	213.940	115.581	-62.201	1.00	47.27	KS11
ATOM	44038	CB	ILE	K	29	213.526	114.098	-62.276	1.00	37.05	KS11
ATOM	44039	CG2	ILE	K	29	212.049	113.968	-62.097	1.00	37.05	KS11
ATOM	44040	CG1	ILE	K	29	213.941	113.484	-63.595	1.00	37.05	KS11
ATOM	44041	CD1	ILE	K	29	213.449	112.083	-63.703	1.00	37.05	KS11
ATOM	44042	C	ILE	K	29	213.587	116.348	-63.468	1.00	47.27	KS11
ATOM	44043	O	ILE	K	29	212.428	116.408	-63.880	1.00	47.27	KS11
ATOM	44044	N	VAL	K	30	214.614	116.952	-64.061	1.00	51.97	KS11
ATOM	44045	CA	VAL	K	30	214.469	117.774	-65.252	1.00	51.97	KS11
ATOM	44046	CB	VAL	K	30	215.311	119.031	-65.134	1.00	42.50	KS11
ATOM	44047	CG1	VAL	K	30	214.626	120.152	-65.848	1.00	42.50	KS11
ATOM	44048	CG2	VAL	K	30	215.553	119.367	-63.677	1.00	42.50	KS11
ATOM	44049	C	VAL	K	30	214.892	117.076	-66.529	1.00	51.97	KS11
ATOM	44050	O	VAL	K	30	215.939	116.444	-66.585	1.00	51.97	KS11
ATOM	44051	N	THR	K	31	214.085	117.209	-67.566	1.00	40.11	KS11
ATOM	44052	CA	THR	K	31	214.410	116.583	-68.832	1.00	40.11	KS11
ATOM	44053	CB	THR	K	31	213.447	115.439	-69.148	1.00	40.87	KS11
ATOM	44054	OG1	THR	K	31	213.777	114.301	-68.344	1.00	40.87	KS11
ATOM	44055	CG2	THR	K	31	213.529	115.071	-70.618	1.00	40.87	KS11
ATOM	44056	C	THR	K	31	214.301	117.608	-69.934	1.00	40.11	KS11
ATOM	44057	O	THR	K	31	213.212	118.108	-70.196	1.00	40.11	KS11
ATOM	44058	N	ILE	K	32	215.419	117.921	-70.578	1.00	54.90	KS11
ATOM	44059	CA	ILE	K	32	215.424	118.898	-71.661	1.00	54.90	KS11
ATOM	44060	CB	ILE	K	32	216.776	119.610	-71.751	1.00	48.98	KS11
ATOM	44061	CG2	ILE	K	32	216.627	120.867	-72.596	1.00	48.98	KS11
ATOM	44062	CG1	ILE	K	32	217.335	119.886	-70.340	1.00	48.98	KS11
ATOM	44063	CD1	ILE	K	32	216.819	121.126	-69.658	1.00	48.98	KS11
ATOM	44064	C	ILE	K	32	215.202	118.168	-72.983	1.00	54.90	KS11
ATOM	44065	O	ILE	K	32	215.875	117.177	-73.261	1.00	54.90	KS11
ATOM	44066	N	THR	K	33	214.275	118.655	-73.802	1.00	52.35	KS11
ATOM	44067	CA	THR	K	33	213.984	118.018	-75.090	1.00	52.35	KS11
ATOM	44068	CB	THR	K	33	212.568	117.419	-75.103	1.00	79.66	KS11
ATOM	44069	OG1	THR	K	33	212.247	116.970	-76.422	1.00	79.66	KS11
ATOM	44070	CG2	THR	K	33	211.555	118.461	-74.712	1.00	79.66	KS11
ATOM	44071	C	THR	K	33	214.088	118.969	-76.287	1.00	52.35	KS11
ATOM	44072	O	THR	K	33	214.318	120.171	-76.131	1.00	52.35	KS11
ATOM	44073	N	ASP	K	34	213.919	118.413	-77.485	1.00	76.34	KS11
ATOM	44074	CA	ASP	K	34	213.967	119.193	-78.718	1.00	76.34	KS11
ATOM	44075	CB	ASP	K	34	214.338	118.301	-79.902	1.00	105.21	KS11
ATOM	44076	CG	ASP	K	34	213.316	117.210	-80.151	1.00	105.21	KS11
ATOM	44077	OD1	ASP	K	34	212.108	117.457	-79.934	1.00	105.21	KS11
ATOM	44078	OD2	ASP	K	34	213.721	116.107	-80.577	1.00	105.21	KS11
ATOM	44079	C	ASP	K	34	212.595	119.829	-78.969	1.00	76.34	KS11
ATOM	44080	O	ASP	K	34	211.620	119.517	-78.280	1.00	76.34	KS11
ATOM	44081	N	PRO	K	35	212.505	120.723	-79.968	1.00	68.59	KS11
ATOM	44082	CD	PRO	K	35	213.635	121.288	-80.726	1.00	113.31	KS11
ATOM	44083	CA	PRO	K	35	211.268	121.414	-80.326	1.00	68.59	KS11
ATOM	44084	CB	PRO	K	35	211.658	122.163	-81.592	1.00	113.31	KS11
ATOM	44085	CG	PRO	K	35	213.046	122.573	-81.283	1.00	113.31	KS11
ATOM	44086	C	PRO	K	35	210.018	120.564	-80.511	1.00	68.59	KS11
ATOM	44087	O	PRO	K	35	208.933	121.111	-80.725	1.00	68.59	KS11
ATOM	44088	N	ASP	K	36	210.144	119.242	-80.449	1.00	59.47	KS11
ATOM	44089	CA	ASP	K	36	208.947	118.424	-80.582	1.00	59.47	KS11
ATOM	44090	CB	ASP	K	36	208.693	118.043	-82.051	1.00	103.64	KS11
ATOM	44091	CG	ASP	K	36	209.848	117.317	-82.682	1.00	103.64	KS11
ATOM	44092	OD1	ASP	K	36	209.803	117.105	-83.913	1.00	103.64	KS11
ATOM	44093	OD2	ASP	K	36	210.795	116.956	-81.955	1.00	103.64	KS11
ATOM	44094	C	ASP	K	36	208.866	117.199	-79.671	1.00	59.47	KS11
ATOM	44095	O	ASP	K	36	208.160	116.230	-79.971	1.00	59.47	KS11
ATOM	44096	N	GLY	K	37	209.592	117.244	-78.555	1.00	54.02	KS11
ATOM	44097	CA	GLY	K	37	209.494	116.162	-77.599	1.00	54.02	KS11
ATOM	44098	C	GLY	K	37	210.614	115.192	-77.291	1.00	54.02	KS11
ATOM	44099	O	GLY	K	37	210.719	114.745	-76.145	1.00	54.02	KS11
ATOM	44100	N	ASN	K	38	211.452	114.846	-78.260	1.00	67.19	KS11
ATOM	44101	CA	ASN	K	38	212.506	113.876	-77.972	1.00	67.19	KS11
ATOM	44102	CB	ASN	K	38	213.019	113.275	-79.272	1.00	71.66	KS11
ATOM	44103	CG	ASN	K	38	211.881	112.796	-80.156	1.00	71.66	KS11



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ATOM	44104	OD1	ASN	K	38	211.284	113.580	-80.891	1.00	71.66	KS11
ATOM	44105	ND2	ASN	K	38	211.551	111.515	-80.063	1.00	71.66	KS11
ATOM	44106	C	ASN	K	38	213.632	114.430	-77.109	1.00	67.19	KS11
ATOM	44107	O	ASN	K	38	214.384	115.321	-77.502	1.00	67.19	KS11
ATOM	44108	N	PRO	K	39	213.746	113.896	-75.893	1.00	48.41	KS11
ATOM	44109	CD	PRO	K	39	212.988	112.714	-75.440	1.00	50.45	KS11
ATOM	44110	CA	PRO	K	39	214.744	114.282	-74.898	1.00	48.41	KS11
ATOM	44111	CB	PRO	K	39	214.513	113.271	-73.769	1.00	50.45	KS11
ATOM	44112	CG	PRO	K	39	213.953	112.076	-74.475	1.00	50.45	KS11
ATOM	44113	C	PRO	K	39	216.198	114.320	-75.335	1.00	48.41	KS11
ATOM	44114	O	PRO	K	39	216.734	113.346	-75.858	1.00	48.41	KS11
ATOM	44115	N	ILE	K	40	216.831	115.460	-75.105	1.00	62.39	KS11
ATOM	44116	CA	ILE	K	40	218.234	115.619	-75.422	1.00	62.39	KS11
ATOM	44117	CB	ILE	K	40	218.574	117.077	-75.669	1.00	68.28	KS11
ATOM	44118	CG2	ILE	K	40	220.061	117.301	-75.521	1.00	68.28	KS11
ATOM	44119	CG1	ILE	K	40	218.080	117.473	-77.053	1.00	68.28	KS11
ATOM	44120	CD1	ILE	K	40	218.199	118.952	-77.331	1.00	68.28	KS11
ATOM	44121	C	ILE	K	40	219.032	115.113	-74.230	1.00	62.39	KS11
ATOM	44122	O	ILE	K	40	219.876	114.233	-74.381	1.00	62.39	KS11
ATOM	44123	N	THR	K	41	218.759	115.670	-73.048	1.00	56.64	KS11
ATOM	44124	CA	THR	K	41	219.445	115.262	-71.816	1.00	56.64	KS11
ATOM	44125	CB	THR	K	41	220.602	116.206	-71.456	1.00	64.66	KS11
ATOM	44126	OG1	THR	K	41	220.071	117.452	-70.991	1.00	64.66	KS11
ATOM	44127	CG2	THR	K	41	221.478	116.461	-72.669	1.00	64.66	KS11
ATOM	44128	C	THR	K	41	218.480	115.284	-70.645	1.00	56.64	KS11
ATOM	44129	O	THR	K	41	217.372	115.805	-70.764	1.00	56.64	KS11
ATOM	44130	N	TRP	K	42	218.902	114.723	-69.513	1.00	46.80	KS11
ATOM	44131	CA	TRP	K	42	218.062	114.708	-68.317	1.00	46.80	KS11
ATOM	44132	CB	TRP	K	42	217.084	113.550	-68.356	1.00	58.36	KS11
ATOM	44133	CG	TRP	K	42	217.755	112.231	-68.128	1.00	58.36	KS11
ATOM	44134	CD2	TRP	K	42	217.869	111.523	-66.883	1.00	58.36	KS11
ATOM	44135	CE2	TRP	K	42	218.572	110.328	-67.146	1.00	58.36	KS11
ATOM	44136	CE3	TRP	K	42	217.443	111.781	-65.577	1.00	58.36	KS11
ATOM	44137	CD1	TRP	K	42	218.382	111.463	-69.061	1.00	58.36	KS11
ATOM	44138	NE1	TRP	K	42	218.871	110.316	-68.482	1.00	58.36	KS11
ATOM	44139	CZ2	TRP	K	42	218.861	109.386	-66.147	1.00	58.36	KS11
ATOM	44140	CZ3	TRP	K	42	217.729	110.842	-64.581	1.00	58.36	KS11
ATOM	44141	CH2	TRP	K	42	218.431	109.659	-64.876	1.00	58.36	KS11
ATOM	44142	C	TRP	K	42	218.878	114.577	-67.040	1.00	46.80	KS11
ATOM	44143	O	TRP	K	42	219.828	113.801	-66.981	1.00	46.80	KS11
ATOM	44144	N	SER	K	43	218.481	115.318	-66.013	1.00	49.52	KS11
ATOM	44145	CA	SER	K	43	219.155	115.281	-64.722	1.00	49.52	KS11
ATOM	44146	CB	SER	K	43	219.867	116.613	-64.479	1.00	57.49	KS11
ATOM	44147	OG	SER	K	43	220.804	116.514	-63.419	1.00	57.49	KS11
ATOM	44148	C	SER	K	43	218.126	115.016	-63.613	1.00	49.52	KS11
ATOM	44149	O	SER	K	43	216.931	114.895	-63.884	1.00	49.52	KS11
ATOM	44150	N	SER	K	44	218.587	114.925	-62.368	1.00	36.34	KS11
ATOM	44151	CA	SER	K	44	217.691	114.671	-61.241	1.00	36.34	KS11
ATOM	44152	CB	SER	K	44	217.030	113.302	-61.377	1.00	40.89	KS11
ATOM	44153	OG	SER	K	44	217.912	112.281	-60.925	1.00	40.89	KS11
ATOM	44154	C	SER	K	44	218.455	114.684	-59.933	1.00	36.34	KS11
ATOM	44155	O	SER	K	44	219.674	114.797	-59.917	1.00	36.34	KS11
ATOM	44156	N	GLY	K	45	217.730	114.540	-58.831	1.00	43.69	KS11
ATOM	44157	CA	GLY	K	45	218.380	114.524	-57.537	1.00	43.69	KS11
ATOM	44158	C	GLY	K	45	219.347	113.360	-57.491	1.00	43.69	KS11
ATOM	44159	O	GLY	K	45	220.409	113.429	-56.875	1.00	43.69	KS11
ATOM	44160	N	GLY	K	46	218.978	112.274	-58.150	1.00	63.81	KS11
ATOM	44161	CA	GLY	K	46	219.849	111.122	-58.156	1.00	63.81	KS11
ATOM	44162	C	GLY	K	46	221.098	111.450	-58.936	1.00	63.81	KS11
ATOM	44163	O	GLY	K	46	222.201	111.423	-58.388	1.00	63.81	KS11
ATOM	44164	N	VAL	K	47	220.910	111.761	-60.218	1.00	79.66	KS11
ATOM	44165	CA	VAL	K	47	222.002	112.097	-61.126	1.00	79.66	KS11
ATOM	44166	CB	VAL	K	47	221.518	113.047	-62.238	1.00	75.87	KS11
ATOM	44167	CG1	VAL	K	47	222.695	113.546	-63.059	1.00	75.87	KS11
ATOM	44168	CG2	VAL	K	47	220.525	112.326	-63.127	1.00	75.87	KS11
ATOM	44169	C	VAL	K	47	223.158	112.748	-60.390	1.00	79.66	KS11
ATOM	44170	O	VAL	K	47	224.315	112.420	-60.635	1.00	79.66	KS11
ATOM	44171	N	ILE	K	48	222.845	113.670	-59.489	1.00	71.75	KS11
ATOM	44172	CA	ILE	K	48	223.875	114.337	-58.714	1.00	71.75	KS11
ATOM	44173	CB	ILE	K	48	223.555	115.789	-58.522	1.00	39.29	KS11
ATOM	44174	CG2	ILE	K	48	224.780	116.500	-57.967	1.00	39.29	KS11
ATOM	44175	CG1	ILE	K	48	223.129	116.383	-59.862	1.00	39.29	KS11
ATOM	44176	CD1	ILE	K	48	222.460	117.727	-59.740	1.00	39.29	KS11
ATOM	44177	C	ILE	K	48	223.953	113.688	-57.345	1.00	71.75	KS11
ATOM	44178	O	ILE	K	48	222.950	113.182	-56.841	1.00	71.75	KS11
ATOM	44179	N	GLY	K	49	225.141	113.713	-56.748	1.00	58.15	KS11
ATOM	44180	CA	GLY	K	49	225.360	113.105	-55.437	1.00	58.15	KS11



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ATOM	44181	C	GLY	K	49	224.151	112.508	-54.735	1.00	58.15	KS11
ATOM	44182	O	GLY	K	49	223.865	111.318	-54.879	1.00	58.15	KS11
ATOM	44183	N	TYR	K	50	223.458	113.362	-53.981	1.00	72.57	KS11
ATOM	44184	CA	TYR	K	50	222.254	113.050	-53.202	1.00	72.57	KS11
ATOM	44185	CB	TYR	K	50	221.260	114.194	-53.379	1.00	61.71	KS11
ATOM	44186	CG	TYR	K	50	221.824	115.519	-52.903	1.00	61.71	KS11
ATOM	44187	CD1	TYR	K	50	221.189	116.720	-53.204	1.00	61.71	KS11
ATOM	44188	CE1	TYR	K	50	221.707	117.938	-52.759	1.00	61.71	KS11
ATOM	44189	CD2	TYR	K	50	222.999	115.568	-52.140	1.00	61.71	KS11
ATOM	44190	CE2	TYR	K	50	223.524	116.775	-51.691	1.00	61.71	KS11
ATOM	44191	CZ	TYR	K	50	222.872	117.956	-52.003	1.00	61.71	KS11
ATOM	44192	OH	TYR	K	50	223.373	119.154	-51.547	1.00	61.71	KS11
ATOM	44193	C	TYR	K	50	221.589	111.719	-53.492	1.00	72.57	KS11
ATOM	44194	O	TYR	K	50	221.192	111.441	-54.623	1.00	72.57	KS11
ATOM	44195	N	LYS	K	51	221.443	110.909	-52.450	1.00	87.78	KS11
ATOM	44196	CA	LYS	K	51	220.878	109.583	-52.615	1.00	87.78	KS11
ATOM	44197	CB	LYS	K	51	221.844	108.546	-52.045	1.00	87.52	KS11
ATOM	44198	CG	LYS	K	51	222.759	107.909	-53.079	1.00	87.52	KS11
ATOM	44199	CD	LYS	K	51	223.109	106.466	-52.691	1.00	87.52	KS11
ATOM	44200	CE	LYS	K	51	221.851	105.575	-52.649	1.00	87.52	KS11
ATOM	44201	NZ	LYS	K	51	222.085	104.176	-52.161	1.00	87.52	KS11
ATOM	44202	C	LYS	K	51	219.474	109.250	-52.110	1.00	87.78	KS11
ATOM	44203	O	LYS	K	51	218.778	108.445	-52.740	1.00	87.78	KS11
ATOM	44204	N	GLY	K	52	219.038	109.824	-50.993	1.00	53.64	KS11
ATOM	44205	CA	GLY	K	52	217.715	109.454	-50.514	1.00	53.64	KS11
ATOM	44206	C	GLY	K	52	216.773	110.580	-50.184	1.00	53.64	KS11
ATOM	44207	O	GLY	K	52	215.965	111.025	-51.013	1.00	53.64	KS11
ATOM	44208	N	SER	K	53	216.860	111.027	-48.944	1.00	64.78	KS11
ATOM	44209	CA	SER	K	53	216.013	112.108	-48.512	1.00	64.78	KS11
ATOM	44210	CB	SER	K	53	216.120	112.275	-46.997	1.00	87.11	KS11
ATOM	44211	OG	SER	K	53	215.104	113.138	-46.510	1.00	87.11	KS11
ATOM	44212	C	SER	K	53	216.418	113.400	-49.238	1.00	64.78	KS11
ATOM	44213	O	SER	K	53	215.573	114.057	-49.862	1.00	64.78	KS11
ATOM	44214	N	ARG	K	54	217.707	113.747	-49.175	1.00	51.55	KS11
ATOM	44215	CA	ARG	K	54	218.211	114.967	-49.814	1.00	51.55	KS11
ATOM	44216	CB	ARG	K	54	219.744	115.033	-49.747	1.00	95.33	KS11
ATOM	44217	CG	ARG	K	54	220.400	114.017	-48.828	1.00	95.33	KS11
ATOM	44218	CD	ARG	K	54	220.500	114.506	-47.394	1.00	95.33	KS11
ATOM	44219	NE	ARG	K	54	221.864	114.892	-47.018	1.00	95.33	KS11
ATOM	44220	CZ	ARG	K	54	222.552	115.887	-47.574	1.00	95.33	KS11
ATOM	44221	NH1	ARG	K	54	222.016	116.613	-48.547	1.00	95.33	KS11
ATOM	44222	NH2	ARG	K	54	223.774	116.169	-47.143	1.00	95.33	KS11
ATOM	44223	C	ARG	K	54	217.781	115.086	-51.287	1.00	51.55	KS11
ATOM	44224	O	ARG	K	54	217.610	116.191	-51.804	1.00	51.55	KS11
ATOM	44225	N	LYS	K	55	217.613	113.948	-51.958	1.00	42.35	KS11
ATOM	44226	CA	LYS	K	55	217.229	113.935	-53.368	1.00	42.35	KS11
ATOM	44227	CB	LYS	K	55	216.908	112.493	-53.783	1.00	38.09	KS11
ATOM	44228	CG	LYS	K	55	217.243	112.129	-55.246	1.00	38.09	KS11
ATOM	44229	CD	LYS	K	55	216.647	110.757	-55.664	1.00	38.09	KS11
ATOM	44230	CE	LYS	K	55	217.134	109.629	-54.757	1.00	38.09	KS11
ATOM	44231	NZ	LYS	K	55	216.411	108.338	-54.926	1.00	38.09	KS11
ATOM	44232	C	LYS	K	55	216.029	114.866	-53.638	1.00	42.35	KS11
ATOM	44233	O	LYS	K	55	215.980	115.569	-54.650	1.00	42.35	KS11
ATOM	44234	N	GLY	K	56	215.068	114.883	-52.722	1.00	76.76	KS11
ATOM	44235	CA	GLY	K	56	213.907	115.737	-52.901	1.00	76.76	KS11
ATOM	44236	C	GLY	K	56	214.231	117.215	-52.777	1.00	76.76	KS11
ATOM	44237	O	GLY	K	56	213.962	117.989	-53.695	1.00	76.76	KS11
ATOM	44238	N	THR	K	57	214.807	117.589	-51.635	1.00	56.75	KS11
ATOM	44239	CA	THR	K	57	215.211	118.961	-51.316	1.00	56.75	KS11
ATOM	44240	CB	THR	K	57	216.599	118.993	-50.649	1.00	51.74	KS11
ATOM	44241	OG1	THR	K	57	216.806	120.276	-50.059	1.00	51.74	KS11
ATOM	44242	CG2	THR	K	57	217.705	118.801	-51.681	1.00	51.74	KS11
ATOM	44243	C	THR	K	57	215.283	119.956	-52.474	1.00	56.75	KS11
ATOM	44244	O	THR	K	57	215.711	119.623	-53.582	1.00	56.75	KS11
ATOM	44245	N	PRO	K	58	214.881	121.207	-52.220	1.00	74.99	KS11
ATOM	44246	CD	PRO	K	58	214.330	121.760	-50.972	1.00	72.67	KS11
ATOM	44247	CA	PRO	K	58	214.923	122.231	-53.263	1.00	74.99	KS11
ATOM	44248	CB	PRO	K	58	214.308	123.449	-52.577	1.00	72.67	KS11
ATOM	44249	CG	PRO	K	58	214.646	123.224	-51.125	1.00	72.67	KS11
ATOM	44250	C	PRO	K	58	216.351	122.488	-53.748	1.00	74.99	KS11
ATOM	44251	O	PRO	K	58	216.564	122.836	-54.915	1.00	74.99	KS11
ATOM	44252	N	TYR	K	59	217.335	122.320	-52.865	1.00	57.75	KS11
ATOM	44253	CA	TYR	K	59	218.716	122.546	-53.286	1.00	57.75	KS11
ATOM	44254	CB	TYR	K	59	219.705	122.329	-52.143	1.00	69.25	KS11
ATOM	44255	CG	TYR	K	59	221.122	122.569	-52.591	1.00	69.25	KS11
ATOM	44256	CD1	TYR	K	59	221.470	123.750	-53.242	1.00	69.25	KS11
ATOM	44257	CE1	TYR	K	59	222.763	123.961	-53.714	1.00	69.25	KS11



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ATOM	44258	CD2	TYR	K	59	222.106	121.601	-52.415	1.00	69.25	KS11
ATOM	44259	CE2	TYR	K	59	223.408	121.802	-52.884	1.00	69.25	KS11
ATOM	44260	CZ	TYR	K	59	223.728	122.984	-53.534	1.00	69.25	KS11
ATOM	44261	OH	TYR	K	59	225.008	123.187	-54.007	1.00	69.25	KS11
ATOM	44262	C	TYR	K	59	219.042	121.594	-54.422	1.00	57.75	KS11
ATOM	44263	O	TYR	K	59	219.530	122.010	-55.471	1.00	57.75	KS11
ATOM	44264	N	ALA	K	60	218.769	120.313	-54.202	1.00	46.24	KS11
ATOM	44265	CA	ALA	K	60	218.998	119.314	-55.229	1.00	46.24	KS11
ATOM	44266	CB	ALA	K	60	218.359	117.993	-54.830	1.00	26.59	KS11
ATOM	44267	C	ALA	K	60	218.358	119.835	-56.514	1.00	46.24	KS11
ATOM	44268	O	ALA	K	60	219.034	120.031	-57.527	1.00	46.24	KS11
ATOM	44269	N	ALA	K	61	217.051	120.070	-56.464	1.00	49.89	KS11
ATOM	44270	CA	ALA	K	61	216.327	120.581	-57.622	1.00	49.89	KS11
ATOM	44271	CB	ALA	K	61	215.010	121.199	-57.179	1.00	90.27	KS11
ATOM	44272	C	ALA	K	61	217.172	121.617	-58.365	1.00	49.89	KS11
ATOM	44273	O	ALA	K	61	217.184	121.667	-59.597	1.00	49.89	KS11
ATOM	44274	N	GLN	K	62	217.891	122.445	-57.619	1.00	55.11	KS11
ATOM	44275	CA	GLN	K	62	218.717	123.447	-58.263	1.00	55.11	KS11
ATOM	44276	CB	GLN	K	62	219.345	124.358	-57.222	1.00	71.59	KS11
ATOM	44277	CG	GLN	K	62	220.047	125.540	-57.827	1.00	71.59	KS11
ATOM	44278	CD	GLN	K	62	220.547	126.493	-56.775	1.00	71.59	KS11
ATOM	44279	OE1	GLN	K	62	221.465	126.172	-56.018	1.00	71.59	KS11
ATOM	44280	NE2	GLN	K	62	219.938	127.675	-56.709	1.00	71.59	KS11
ATOM	44281	C	GLN	K	62	219.812	122.778	-59.087	1.00	55.11	KS11
ATOM	44282	O	GLN	K	62	219.866	122.916	-60.311	1.00	55.11	KS11
ATOM	44283	N	LEU	K	63	220.680	122.043	-58.404	1.00	59.81	KS11
ATOM	44284	CA	LEU	K	63	221.782	121.358	-59.060	1.00	59.81	KS11
ATOM	44285	CB	LEU	K	63	222.537	120.494	-58.046	1.00	54.76	KS11
ATOM	44286	CG	LEU	K	63	223.178	121.242	-56.867	1.00	54.76	KS11
ATOM	44287	CD1	LEU	K	63	224.027	120.272	-56.054	1.00	54.76	KS11
ATOM	44288	CD2	LEU	K	63	224.036	122.400	-57.370	1.00	54.76	KS11
ATOM	44289	C	LEU	K	63	221.329	120.505	-60.241	1.00	59.81	KS11
ATOM	44290	O	LEU	K	63	222.058	120.347	-61.222	1.00	59.81	KS11
ATOM	44291	N	ALA	K	64	220.132	119.944	-60.154	1.00	47.97	KS11
ATOM	44292	CA	ALA	K	64	219.636	119.122	-61.250	1.00	47.97	KS11
ATOM	44293	CB	ALA	K	64	218.419	118.314	-60.800	1.00	51.36	KS11
ATOM	44294	C	ALA	K	64	219.276	120.023	-62.431	1.00	47.97	KS11
ATOM	44295	O	ALA	K	64	219.623	119.743	-63.577	1.00	47.97	KS11
ATOM	44296	N	ALA	K	65	218.587	121.117	-62.139	1.00	52.12	KS11
ATOM	44297	CA	ALA	K	65	218.192	122.053	-63.179	1.00	52.12	KS11
ATOM	44298	CB	ALA	K	65	217.443	123.242	-62.560	1.00	48.34	KS11
ATOM	44299	C	ALA	K	65	219.430	122.535	-63.922	1.00	52.12	KS11
ATOM	44300	O	ALA	K	65	219.444	122.608	-65.150	1.00	52.12	KS11
ATOM	44301	N	LEU	K	66	220.475	122.859	-63.171	1.00	67.93	KS11
ATOM	44302	CA	LEU	K	66	221.702	123.336	-63.778	1.00	67.93	KS11
ATOM	44303	CB	LEU	K	66	222.701	123.730	-62.701	1.00	51.94	KS11
ATOM	44304	CG	LEU	K	66	222.117	124.787	-61.766	1.00	51.94	KS11
ATOM	44305	CD1	LEU	K	66	223.188	125.291	-60.809	1.00	51.94	KS11
ATOM	44306	CD2	LEU	K	66	221.560	125.936	-62.600	1.00	51.94	KS11
ATOM	44307	C	LEU	K	66	222.288	122.263	-64.666	1.00	67.93	KS11
ATOM	44308	O	LEU	K	66	222.312	122.418	-65.885	1.00	67.93	KS11
ATOM	44309	N	ASP	K	67	222.749	121.171	-64.059	1.00	61.53	KS11
ATOM	44310	CA	ASP	K	67	223.335	120.067	-64.815	1.00	61.53	KS11
ATOM	44311	CB	ASP	K	67	223.504	118.832	-63.923	1.00	90.42	KS11
ATOM	44312	CG	ASP	K	67	224.012	117.621	-64.692	1.00	90.42	KS11
ATOM	44313	OD1	ASP	K	67	223.212	116.994	-65.418	1.00	90.42	KS11
ATOM	44314	OD2	ASP	K	67	225.214	117.299	-64.577	1.00	90.42	KS11
ATOM	44315	C	ASP	K	67	222.467	119.723	-66.019	1.00	61.53	KS11
ATOM	44316	O	ASP	K	67	222.977	119.412	-67.092	1.00	61.53	KS11
ATOM	44317	N	ALA	K	68	221.154	119.785	-65.844	1.00	48.08	KS11
ATOM	44318	CA	ALA	K	68	220.263	119.484	-66.943	1.00	48.08	KS11
ATOM	44319	CB	ALA	K	68	218.817	119.662	-66.514	1.00	112.43	KS11
ATOM	44320	C	ALA	K	68	220.604	120.439	-68.077	1.00	48.08	KS11
ATOM	44321	O	ALA	K	68	220.797	120.014	-69.216	1.00	48.08	KS11
ATOM	44322	N	ALA	K	69	220.702	121.727	-67.755	1.00	65.75	KS11
ATOM	44323	CA	ALA	K	69	221.020	122.759	-68.743	1.00	65.75	KS11
ATOM	44324	CB	ALA	K	69	220.783	124.133	-68.150	1.00	51.96	KS11
ATOM	44325	C	ALA	K	69	222.449	122.669	-69.275	1.00	65.75	KS11
ATOM	44326	O	ALA	K	69	222.665	122.739	-70.487	1.00	65.75	KS11
ATOM	44327	N	LYS	K	70	223.424	122.533	-68.375	1.00	52.69	KS11
ATOM	44328	CA	LYS	K	70	224.825	122.424	-68.781	1.00	52.69	KS11
ATOM	44329	CB	LYS	K	70	225.710	122.105	-67.574	1.00	126.00	KS11
ATOM	44330	CG	LYS	K	70	225.694	123.206	-66.528	1.00	126.00	KS11
ATOM	44331	CD	LYS	K	70	226.461	122.832	-65.272	1.00	126.00	KS11
ATOM	44332	CE	LYS	K	70	226.296	123.913	-64.212	1.00	126.00	KS11
ATOM	44333	NZ	LYS	K	70	226.957	123.545	-62.936	1.00	126.00	KS11
ATOM	44334	C	LYS	K	70	224.931	121.322	-69.824	1.00	52.69	KS11



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ATOM	44335	O	LYS	K	70	225.454	121.539	-70.915	1.00	52.69	KS11
ATOM	44336	N	LYS	K	71	224.412	120.145	-69.494	1.00	67.95	KS11
ATOM	44337	CA	LYS	K	71	224.438	119.029	-70.427	1.00	67.95	KS11
ATOM	44338	CB	LYS	K	71	223.712	117.812	-69.842	1.00	57.37	KS11
ATOM	44339	CG	LYS	K	71	224.455	117.132	-68.701	1.00	57.37	KS11
ATOM	44340	CD	LYS	K	71	223.816	115.796	-68.321	1.00	57.37	KS11
ATOM	44341	CE	LYS	K	71	224.597	115.119	-67.195	1.00	57.37	KS11
ATOM	44342	NZ	LYS	K	71	224.050	113.782	-66.823	1.00	57.37	KS11
ATOM	44343	C	LYS	K	71	223.762	119.445	-71.727	1.00	67.95	KS11
ATOM	44344	O	LYS	K	71	224.143	118.993	-72.812	1.00	67.95	KS11
ATOM	44345	N	ALA	K	72	222.763	120.315	-71.609	1.00	56.08	KS11
ATOM	44346	CA	ALA	K	72	222.018	120.797	-72.763	1.00	56.08	KS11
ATOM	44347	CB	ALA	K	72	220.704	121.409	-72.313	1.00	111.91	KS11
ATOM	44348	C	ALA	K	72	222.816	121.811	-73.568	1.00	56.08	KS11
ATOM	44349	O	ALA	K	72	222.643	121.909	-74.782	1.00	56.08	KS11
ATOM	44350	N	MET	K	73	223.681	122.568	-72.895	1.00	72.33	KS11
ATOM	44351	CA	MET	K	73	224.512	123.563	-73.571	1.00	72.33	KS11
ATOM	44352	CB	MET	K	73	225.370	124.319	-72.553	1.00	114.71	KS11
ATOM	44353	CG	MET	K	73	224.587	124.927	-71.389	1.00	114.71	KS11
ATOM	44354	SD	MET	K	73	223.576	126.369	-71.805	1.00	114.71	KS11
ATOM	44355	CE	MET	K	73	224.438	127.675	-70.916	1.00	114.71	KS11
ATOM	44356	C	MET	K	73	225.418	122.846	-74.580	1.00	72.33	KS11
ATOM	44357	O	MET	K	73	225.888	123.447	-75.545	1.00	72.33	KS11
ATOM	44358	N	ALA	K	74	225.650	121.555	-74.343	1.00	91.27	KS11
ATOM	44359	CA	ALA	K	74	226.472	120.718	-75.220	1.00	91.27	KS11
ATOM	44360	CB	ALA	K	74	226.576	119.307	-74.650	1.00	88.96	KS11
ATOM	44361	C	ALA	K	74	225.854	120.665	-76.613	1.00	91.27	KS11
ATOM	44362	O	ALA	K	74	226.523	120.917	-77.613	1.00	91.27	KS11
ATOM	44363	N	TYR	K	75	224.572	120.321	-76.671	1.00	79.64	KS11
ATOM	44364	CA	TYR	K	75	223.851	120.259	-77.936	1.00	79.64	KS11
ATOM	44365	CB	TYR	K	75	222.531	119.501	-77.765	1.00	103.42	KS11
ATOM	44366	CG	TYR	K	75	222.657	118.007	-77.530	1.00	103.42	KS11
ATOM	44367	CD1	TYR	K	75	223.560	117.491	-76.592	1.00	103.42	KS11
ATOM	44368	CE1	TYR	K	75	223.631	116.112	-76.335	1.00	103.42	KS11
ATOM	44369	CD2	TYR	K	75	221.828	117.108	-78.208	1.00	103.42	KS11
ATOM	44370	CE2	TYR	K	75	221.887	115.732	-77.956	1.00	103.42	KS11
ATOM	44371	CZ	TYR	K	75	222.790	115.238	-77.021	1.00	103.42	KS11
ATOM	44372	OH	TYR	K	75	222.849	113.876	-76.782	1.00	103.42	KS11
ATOM	44373	C	TYR	K	75	223.554	121.695	-78.368	1.00	79.64	KS11
ATOM	44374	O	TYR	K	75	222.627	121.943	-79.147	1.00	79.64	KS11
ATOM	44375	N	GLY	K	76	224.337	122.634	-77.837	1.00	65.65	KS11
ATOM	44376	CA	GLY	K	76	224.168	124.041	-78.161	1.00	65.65	KS11
ATOM	44377	C	GLY	K	76	222.800	124.651	-77.878	1.00	65.65	KS11
ATOM	44378	O	GLY	K	76	222.298	125.452	-78.673	1.00	65.65	KS11
ATOM	44379	N	MET	K	77	222.188	124.286	-76.755	1.00	99.24	KS11
ATOM	44380	CA	MET	K	77	220.881	124.836	-76.409	1.00	99.24	KS11
ATOM	44381	CB	MET	K	77	220.275	124.108	-75.198	1.00	86.89	KS11
ATOM	44382	CG	MET	K	77	219.457	122.847	-75.527	1.00	86.89	KS11
ATOM	44383	SD	MET	K	77	217.880	123.145	-76.398	1.00	86.89	KS11
ATOM	44384	CE	MET	K	77	216.738	123.062	-75.072	1.00	86.89	KS11
ATOM	44385	C	MET	K	77	221.041	126.309	-76.082	1.00	99.24	KS11
ATOM	44386	O	MET	K	77	222.117	126.743	-75.674	1.00	99.24	KS11
ATOM	44387	N	GLN	K	78	219.970	127.074	-76.267	1.00	85.59	KS11
ATOM	44388	CA	GLN	K	78	219.985	128.502	-75.976	1.00	85.59	KS11
ATOM	44389	CB	GLN	K	78	220.358	129.284	-77.230	1.00	125.88	KS11
ATOM	44390	CG	GLN	K	78	221.691	128.877	-77.813	1.00	125.88	KS11
ATOM	44391	CD	GLN	K	78	222.171	129.836	-78.875	1.00	125.88	KS11
ATOM	44392	OE1	GLN	K	78	222.362	131.025	-78.609	1.00	125.88	KS11
ATOM	44393	NE2	GLN	K	78	222.370	129.329	-80.089	1.00	125.88	KS11
ATOM	44394	C	GLN	K	78	218.635	128.982	-75.448	1.00	85.59	KS11
ATOM	44395	O	GLN	K	78	218.562	129.653	-74.422	1.00	85.59	KS11
ATOM	44396	N	SER	K	79	217.570	128.622	-76.157	1.00	86.59	KS11
ATOM	44397	CA	SER	K	79	216.207	129.001	-75.792	1.00	86.59	KS11
ATOM	44398	CB	SER	K	79	215.545	129.723	-76.972	1.00	137.53	KS11
ATOM	44399	OG	SER	K	79	214.180	130.001	-76.717	1.00	137.53	KS11
ATOM	44400	C	SER	K	79	215.380	127.768	-75.401	1.00	86.59	KS11
ATOM	44401	O	SER	K	79	215.399	126.749	-76.094	1.00	86.59	KS11
ATOM	44402	N	VAL	K	80	214.650	127.859	-74.294	1.00	66.42	KS11
ATOM	44403	CA	VAL	K	80	213.843	126.731	-73.849	1.00	66.42	KS11
ATOM	44404	CB	VAL	K	80	214.562	125.929	-72.752	1.00	72.32	KS11
ATOM	44405	CG1	VAL	K	80	213.989	124.522	-72.684	1.00	72.32	KS11
ATOM	44406	CG2	VAL	K	80	216.056	125.906	-73.017	1.00	72.32	KS11
ATOM	44407	C	VAL	K	80	212.486	127.147	-73.293	1.00	66.42	KS11
ATOM	44408	O	VAL	K	80	212.343	128.241	-72.741	1.00	66.42	KS11
ATOM	44409	N	ASP	K	81	211.501	126.256	-73.453	1.00	58.38	KS11
ATOM	44410	CA	ASP	K	81	210.135	126.454	-72.954	1.00	58.38	KS11
ATOM	44411	CB	ASP	K	81	209.097	126.129	-74.030	1.00	115.96	KS11



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ATOM	44412	CG	ASP	K	81	209.172	127.066	-75.214	1.00115.96	KS11
ATOM	44413	OD1	ASP	K	81	210.117	126.935	-76.022	1.00115.96	KS11
ATOM	44414	OD2	ASP	K	81	208.287	127.941	-75.331	1.00115.96	KS11
ATOM	44415	C	ASP	K	81	209.953	125.500	-71.784	1.00 58.38	KS11
ATOM	44416	O	ASP	K	81	209.964	124.277	-71.960	1.00 58.38	KS11
ATOM	44417	N	VAL	K	82	209.790	126.066	-70.592	1.00 43.86	KS11
ATOM	44418	CA	VAL	K	82	209.636	125.266	-69.387	1.00 43.86	KS11
ATOM	44419	CB	VAL	K	82	210.075	126.054	-68.151	1.00 43.57	KS11
ATOM	44420	CG1	VAL	K	82	210.088	125.136	-66.936	1.00 43.57	KS11
ATOM	44421	CG2	VAL	K	82	211.434	126.670	-68.389	1.00 43.57	KS11
ATOM	44422	C	VAL	K	82	208.219	124.761	-69.155	1.00 43.86	KS11
ATOM	44423	O	VAL	K	82	207.241	125.449	-69.445	1.00 43.86	KS11
ATOM	44424	N	ILE	K	83	208.121	123.551	-68.621	1.00 51.70	KS11
ATOM	44425	CA	ILE	K	83	206.833	122.940	-68.345	1.00 51.70	KS11
ATOM	44426	CB	ILE	K	83	206.486	121.893	-69.397	1.00 45.37	KS11
ATOM	44427	CG2	ILE	K	83	205.059	121.412	-69.194	1.00 45.37	KS11
ATOM	44428	CG1	ILE	K	83	206.643	122.487	-70.787	1.00 45.37	KS11
ATOM	44429	CD1	ILE	K	83	206.515	121.464	-71.869	1.00 45.37	KS11
ATOM	44430	C	ILE	K	83	206.906	122.235	-67.004	1.00 51.70	KS11
ATOM	44431	O	ILE	K	83	207.587	121.215	-66.869	1.00 51.70	KS11
ATOM	44432	N	VAL	K	84	206.202	122.767	-66.013	1.00 48.46	KS11
ATOM	44433	CA	VAL	K	84	206.222	122.162	-64.690	1.00 48.46	KS11
ATOM	44434	CB	VAL	K	84	206.160	123.227	-63.593	1.00 52.63	KS11
ATOM	44435	CG1	VAL	K	84	207.520	123.370	-62.932	1.00 52.63	KS11
ATOM	44436	CG2	VAL	K	84	205.737	124.556	-64.200	1.00 52.63	KS11
ATOM	44437	C	VAL	K	84	205.092	121.170	-64.497	1.00 48.46	KS11
ATOM	44438	O	VAL	K	84	203.973	121.375	-64.959	1.00 48.46	KS11
ATOM	44439	N	ARG	K	85	205.408	120.081	-63.813	1.00 60.65	KS11
ATOM	44440	CA	ARG	K	85	204.443	119.033	-63.558	1.00 60.65	KS11
ATOM	44441	CB	ARG	K	85	204.737	117.824	-64.450	1.00 59.81	KS11
ATOM	44442	CG	ARG	K	85	204.597	118.086	-65.941	1.00 59.81	KS11
ATOM	44443	CD	ARG	K	85	203.381	117.362	-66.502	1.00 59.81	KS11
ATOM	44444	NE	ARG	K	85	203.206	117.551	-67.944	1.00 59.81	KS11
ATOM	44445	CZ	ARG	K	85	203.979	117.004	-68.882	1.00 59.81	KS11
ATOM	44446	NH1	ARG	K	85	204.994	116.221	-68.543	1.00 59.81	KS11
ATOM	44447	NH2	ARG	K	85	203.735	117.240	-70.166	1.00 59.81	KS11
ATOM	44448	C	ARG	K	85	204.552	118.626	-62.098	1.00 60.65	KS11
ATOM	44449	O	ARG	K	85	205.643	118.324	-61.614	1.00 60.65	KS11
ATOM	44450	N	GLY	K	86	203.418	118.635	-61.401	1.00 56.41	KS11
ATOM	44451	CA	GLY	K	86	203.388	118.241	-60.003	1.00 56.41	KS11
ATOM	44452	C	GLY	K	86	203.861	119.288	-59.026	1.00 56.41	KS11
ATOM	44453	O	GLY	K	86	204.567	120.216	-59.387	1.00 56.41	KS11
ATOM	44454	N	THR	K	87	203.452	119.136	-57.778	1.00 72.53	KS11
ATOM	44455	CA	THR	K	87	203.852	120.062	-56.740	1.00 72.53	KS11
ATOM	44456	CB	THR	K	87	202.676	120.445	-55.860	1.00105.63	KS11
ATOM	44457	OG1	THR	K	87	201.629	120.977	-56.678	1.00105.63	KS11
ATOM	44458	CG2	THR	K	87	203.105	121.481	-54.832	1.00105.63	KS11
ATOM	44459	C	THR	K	87	204.856	119.333	-55.882	1.00 72.53	KS11
ATOM	44460	O	THR	K	87	204.721	118.127	-55.677	1.00 72.53	KS11
ATOM	44461	N	GLY	K	88	205.861	120.042	-55.375	1.00 63.55	KS11
ATOM	44462	CA	GLY	K	88	206.837	119.359	-54.549	1.00 63.55	KS11
ATOM	44463	C	GLY	K	88	208.045	120.127	-54.055	1.00 63.55	KS11
ATOM	44464	O	GLY	K	88	208.329	121.244	-54.498	1.00 63.55	KS11
ATOM	44465	N	ALA	K	89	208.754	119.485	-53.127	1.00172.15	KS11
ATOM	44466	CA	ALA	K	89	209.961	120.011	-52.498	1.00172.15	KS11
ATOM	44467	CB	ALA	K	89	210.724	118.870	-51.817	1.00 79.69	KS11
ATOM	44468	C	ALA	K	89	210.869	120.712	-53.494	1.00172.15	KS11
ATOM	44469	O	ALA	K	89	211.805	120.111	-54.022	1.00172.15	KS11
ATOM	44470	N	GLY	K	90	210.596	121.986	-53.745	1.00 52.57	KS11
ATOM	44471	CA	GLY	K	90	211.420	122.728	-54.682	1.00 52.57	KS11
ATOM	44472	C	GLY	K	90	211.083	122.514	-56.152	1.00 52.57	KS11
ATOM	44473	O	GLY	K	90	211.562	121.585	-56.804	1.00 52.57	KS11
ATOM	44474	N	ARG	K	91	210.244	123.395	-56.673	1.00 66.60	KS11
ATOM	44475	CA	ARG	K	91	209.836	123.339	-58.060	1.00 66.60	KS11
ATOM	44476	CB	ARG	K	91	208.330	123.130	-58.165	1.00 97.33	KS11
ATOM	44477	CG	ARG	K	91	207.814	123.128	-59.585	1.00 97.33	KS11
ATOM	44478	CD	ARG	K	91	206.470	123.812	-59.655	1.00 97.33	KS11
ATOM	44479	NE	ARG	K	91	205.463	123.124	-58.857	1.00 97.33	KS11
ATOM	44480	CZ	ARG	K	91	204.488	123.740	-58.198	1.00 97.33	KS11
ATOM	44481	NH1	ARG	K	91	204.390	125.064	-58.238	1.00 97.33	KS11
ATOM	44482	NH2	ARG	K	91	203.608	123.034	-57.503	1.00 97.33	KS11
ATOM	44483	C	ARG	K	91	210.199	124.702	-58.582	1.00 66.60	KS11
ATOM	44484	O	ARG	K	91	210.904	124.837	-59.577	1.00 66.60	KS11
ATOM	44485	N	GLU	K	92	209.713	125.721	-57.888	1.00 83.34	KS11
ATOM	44486	CA	GLU	K	92	210.014	127.082	-58.276	1.00 83.34	KS11
ATOM	44487	CB	GLU	K	92	209.348	128.071	-57.315	1.00104.30	KS11
ATOM	44488	CG	GLU	K	92	208.127	128.792	-57.901	1.00104.30	KS11



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ATOM	44489	CD	GLU	K	92	207.174	127.862	-58.652	1.00104.30	KS11
ATOM	44490	OE1	GLU	K	92	206.817	126.791	-58.112	1.00104.30	KS11
ATOM	44491	OE2	GLU	K	92	206.776	128.212	-59.784	1.00104.30	KS11
ATOM	44492	C	GLU	K	92	211.530	127.248	-58.254	1.00 83.34	KS11
ATOM	44493	O	GLU	K	92	212.082	128.089	-58.968	1.00 83.34	KS11
ATOM	44494	N	GLN	K	93	212.206	126.437	-57.440	1.00 55.33	KS11
ATOM	44495	CA	GLN	K	93	213.660	126.508	-57.365	1.00 55.33	KS11
ATOM	44496	CB	GLN	K	93	214.189	125.612	-56.254	1.00 91.20	KS11
ATOM	44497	CG	GLN	K	93	214.844	126.399	-55.148	1.00 91.20	KS11
ATOM	44498	CD	GLN	K	93	215.772	127.473	-55.689	1.00 91.20	KS11
ATOM	44499	OE1	GLN	K	93	216.722	127.182	-56.418	1.00 91.20	KS11
ATOM	44500	NE2	GLN	K	93	215.496	128.723	-55.338	1.00 91.20	KS11
ATOM	44501	C	GLN	K	93	214.226	126.059	-58.697	1.00 55.33	KS11
ATOM	44502	O	GLN	K	93	215.003	126.775	-59.330	1.00 55.33	KS11
ATOM	44503	N	ALA	K	94	213.814	124.868	-59.116	1.00 63.84	KS11
ATOM	44504	CA	ALA	K	94	214.244	124.302	-60.385	1.00 63.84	KS11
ATOM	44505	CB	ALA	K	94	213.451	123.025	-60.688	1.00 69.69	KS11
ATOM	44506	C	ALA	K	94	214.021	125.330	-61.489	1.00 63.84	KS11
ATOM	44507	O	ALA	K	94	214.858	125.494	-62.376	1.00 63.84	KS11
ATOM	44508	N	ILE	K	95	212.896	126.030	-61.433	1.00 55.31	KS11
ATOM	44509	CA	ILE	K	95	212.612	127.022	-62.451	1.00 55.31	KS11
ATOM	44510	CB	ILE	K	95	211.171	127.515	-62.370	1.00 39.39	KS11
ATOM	44511	CG2	ILE	K	95	210.932	128.575	-63.440	1.00 39.39	KS11
ATOM	44512	CG1	ILE	K	95	210.226	126.323	-62.536	1.00 39.39	KS11
ATOM	44513	CD1	ILE	K	95	208.753	126.686	-62.601	1.00 39.39	KS11
ATOM	44514	C	ILE	K	95	213.548	128.220	-62.375	1.00 55.31	KS11
ATOM	44515	O	ILE	K	95	213.924	128.776	-63.407	1.00 55.31	KS11
ATOM	44516	N	ARG	K	96	213.925	128.634	-61.169	1.00 49.30	KS11
ATOM	44517	CA	ARG	K	96	214.836	129.760	-61.057	1.00 49.30	KS11
ATOM	44518	CB	ARG	K	96	214.965	130.204	-59.600	1.00104.09	KS11
ATOM	44519	CG	ARG	K	96	214.124	131.424	-59.280	1.00104.09	KS11
ATOM	44520	CD	ARG	K	96	213.070	131.136	-58.224	1.00104.09	KS11
ATOM	44521	NE	ARG	K	96	213.636	131.051	-56.880	1.00104.09	KS11
ATOM	44522	CZ	ARG	K	96	212.915	130.876	-55.776	1.00104.09	KS11
ATOM	44523	NH1	ARG	K	96	211.594	130.764	-55.852	1.00104.09	KS11
ATOM	44524	NH2	ARG	K	96	213.514	130.821	-54.595	1.00104.09	KS11
ATOM	44525	C	ARG	K	96	216.205	129.360	-61.624	1.00 49.30	KS11
ATOM	44526	O	ARG	K	96	216.845	130.121	-62.363	1.00 49.30	KS11
ATOM	44527	N	ALA	K	97	216.646	128.154	-61.282	1.00 50.80	KS11
ATOM	44528	CA	ALA	K	97	217.925	127.664	-61.763	1.00 50.80	KS11
ATOM	44529	CB	ALA	K	97	218.109	126.206	-61.385	1.00 98.90	KS11
ATOM	44530	C	ALA	K	97	217.961	127.825	-63.269	1.00 50.80	KS11
ATOM	44531	O	ALA	K	97	218.855	128.479	-63.796	1.00 50.80	KS11
ATOM	44532	N	LEU	K	98	216.985	127.240	-63.961	1.00 86.61	KS11
ATOM	44533	CA	LEU	K	98	216.932	127.344	-65.416	1.00 86.61	KS11
ATOM	44534	CB	LEU	K	98	215.667	126.711	-65.986	1.00 37.32	KS11
ATOM	44535	CG	LEU	K	98	215.513	125.197	-65.944	1.00 37.32	KS11
ATOM	44536	CD1	LEU	K	98	214.297	124.820	-66.773	1.00 37.32	KS11
ATOM	44537	CD2	LEU	K	98	216.758	124.517	-66.488	1.00 37.32	KS11
ATOM	44538	C	LEU	K	98	216.947	128.794	-65.832	1.00 86.61	KS11
ATOM	44539	O	LEU	K	98	217.701	129.185	-66.721	1.00 86.61	KS11
ATOM	44540	N	GLN	K	99	216.107	129.596	-65.192	1.00 87.74	KS11
ATOM	44541	CA	GLN	K	99	216.049	131.002	-65.535	1.00 87.74	KS11
ATOM	44542	CB	GLN	K	99	215.063	131.724	-64.620	1.00 82.61	KS11
ATOM	44543	CG	GLN	K	99	213.630	131.311	-64.927	1.00 82.61	KS11
ATOM	44544	CD	GLN	K	99	212.594	132.123	-64.192	1.00 82.61	KS11
ATOM	44545	OE1	GLN	K	99	212.522	132.099	-62.961	1.00 82.61	KS11
ATOM	44546	NE2	GLN	K	99	211.773	132.847	-64.946	1.00 82.61	KS11
ATOM	44547	C	GLN	K	99	217.435	131.635	-65.509	1.00 87.74	KS11
ATOM	44548	O	GLN	K	99	217.711	132.554	-66.280	1.00 87.74	KS11
ATOM	44549	N	ALA	K	100	218.314	131.135	-64.646	1.00 86.97	KS11
ATOM	44550	CA	ALA	K	100	219.682	131.649	-64.597	1.00 86.97	KS11
ATOM	44551	CB	ALA	K	100	220.299	131.390	-63.245	1.00 37.13	KS11
ATOM	44552	C	ALA	K	100	220.469	130.902	-65.668	1.00 86.97	KS11
ATOM	44553	O	ALA	K	100	220.483	131.292	-66.843	1.00 86.97	KS11
ATOM	44554	N	SER	K	101	221.114	129.821	-65.239	1.00 87.06	KS11
ATOM	44555	CA	SER	K	101	221.903	128.964	-66.118	1.00 87.06	KS11
ATOM	44556	CB	SER	K	101	221.022	127.831	-66.667	1.00 60.08	KS11
ATOM	44557	OG	SER	K	101	219.940	128.322	-67.441	1.00 60.08	KS11
ATOM	44558	C	SER	K	101	222.544	129.717	-67.278	1.00 87.06	KS11
ATOM	44559	O	SER	K	101	223.537	130.423	-67.111	1.00 87.06	KS11
ATOM	44560	N	GLY	K	102	221.975	129.539	-68.460	1.00 91.34	KS11
ATOM	44561	CA	GLY	K	102	222.473	130.204	-69.641	1.00 91.34	KS11
ATOM	44562	C	GLY	K	102	221.240	130.390	-70.480	1.00 91.34	KS11
ATOM	44563	O	GLY	K	102	220.920	131.492	-70.919	1.00 91.34	KS11
ATOM	44564	N	LEU	K	103	220.531	129.284	-70.664	1.00 81.01	KS11
ATOM	44565	CA	LEU	K	103	219.296	129.244	-71.436	1.00 81.01	KS11



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ATOM	44566	CB	LEU	K	103	218.563	127.943	-71.148	1.00	56.55	KS11
ATOM	44567	CG	LEU	K	103	219.462	126.717	-71.075	1.00	56.55	KS11
ATOM	44568	CD1	LEU	K	103	218.746	125.589	-70.333	1.00	56.55	KS11
ATOM	44569	CD2	LEU	K	103	219.858	126.319	-72.491	1.00	56.55	KS11
ATOM	44570	C	LEU	K	103	218.342	130.401	-71.142	1.00	81.01	KS11
ATOM	44571	O	LEU	K	103	218.255	130.902	-70.012	1.00	81.01	KS11
ATOM	44572	N	GLN	K	104	217.620	130.809	-72.176	1.00	78.97	KS11
ATOM	44573	CA	GLN	K	104	216.646	131.874	-72.056	1.00	78.97	KS11
ATOM	44574	CB	GLN	K	104	216.626	132.714	-73.326	1.00	126.32	KS11
ATOM	44575	CG	GLN	K	104	215.489	133.700	-73.381	1.00	126.32	KS11
ATOM	44576	CD	GLN	K	104	215.538	134.549	-74.627	1.00	126.32	KS11
ATOM	44577	OE1	GLN	K	104	215.574	134.032	-75.747	1.00	126.32	KS11
ATOM	44578	NE2	GLN	K	104	215.539	135.864	-74.443	1.00	126.32	KS11
ATOM	44579	C	GLN	K	104	215.308	131.188	-71.868	1.00	78.97	KS11
ATOM	44580	O	GLN	K	104	214.910	130.365	-72.689	1.00	78.97	KS11
ATOM	44581	N	VAL	K	105	214.620	131.509	-70.779	1.00	69.35	KS11
ATOM	44582	CA	VAL	K	105	213.330	130.896	-70.511	1.00	69.35	KS11
ATOM	44583	CB	VAL	K	105	213.027	130.882	-68.998	1.00	46.97	KS11
ATOM	44584	CG1	VAL	K	105	211.722	130.138	-68.747	1.00	46.97	KS11
ATOM	44585	CG2	VAL	K	105	214.183	130.234	-68.234	1.00	46.97	KS11
ATOM	44586	C	VAL	K	105	212.219	131.650	-71.239	1.00	69.35	KS11
ATOM	44587	O	VAL	K	105	211.700	132.640	-70.733	1.00	69.35	KS11
ATOM	44588	N	LYS	K	106	211.864	131.177	-72.431	1.00	82.64	KS11
ATOM	44589	CA	LYS	K	106	210.817	131.805	-73.235	1.00	82.64	KS11
ATOM	44590	CB	LYS	K	106	210.662	131.076	-74.572	1.00	117.98	KS11
ATOM	44591	CG	LYS	K	106	211.794	131.337	-75.552	1.00	117.98	KS11
ATOM	44592	CD	LYS	K	106	211.900	132.825	-75.883	1.00	117.98	KS11
ATOM	44593	CE	LYS	K	106	213.033	133.108	-76.867	1.00	117.98	KS11
ATOM	44594	NZ	LYS	K	106	213.191	134.565	-77.167	1.00	117.98	KS11
ATOM	44595	C	LYS	K	106	209.477	131.837	-72.516	1.00	82.64	KS11
ATOM	44596	O	LYS	K	106	208.822	132.874	-72.464	1.00	82.64	KS11
ATOM	44597	N	SER	K	107	209.072	130.701	-71.959	1.00	83.81	KS11
ATOM	44598	CA	SER	K	107	207.802	130.626	-71.247	1.00	83.81	KS11
ATOM	44599	CB	SER	K	107	206.660	130.416	-72.229	1.00	72.15	KS11
ATOM	44600	OG	SER	K	107	206.707	129.092	-72.735	1.00	72.15	KS11
ATOM	44601	C	SER	K	107	207.774	129.483	-70.249	1.00	83.81	KS11
ATOM	44602	O	SER	K	107	208.484	128.487	-70.390	1.00	83.81	KS11
ATOM	44603	N	ILE	K	108	206.930	129.628	-69.241	1.00	54.07	KS11
ATOM	44604	CA	ILE	K	108	206.790	128.591	-68.235	1.00	54.07	KS11
ATOM	44605	CB	ILE	K	108	207.233	129.095	-66.847	1.00	45.85	KS11
ATOM	44606	CG2	ILE	K	108	207.427	127.912	-65.896	1.00	45.85	KS11
ATOM	44607	CG1	ILE	K	108	208.548	129.860	-66.975	1.00	45.85	KS11
ATOM	44608	CD1	ILE	K	108	208.947	130.604	-65.714	1.00	45.85	KS11
ATOM	44609	C	ILE	K	108	205.315	128.193	-68.204	1.00	54.07	KS11
ATOM	44610	O	ILE	K	108	204.428	129.014	-68.464	1.00	54.07	KS11
ATOM	44611	N	VAL	K	109	205.052	126.933	-67.886	1.00	51.30	KS11
ATOM	44612	CA	VAL	K	109	203.689	126.451	-67.870	1.00	51.30	KS11
ATOM	44613	CB	VAL	K	109	203.275	125.962	-69.278	1.00	27.91	KS11
ATOM	44614	CG1	VAL	K	109	201.970	125.195	-69.200	1.00	27.91	KS11
ATOM	44615	CG2	VAL	K	109	203.114	127.145	-70.219	1.00	27.91	KS11
ATOM	44616	C	VAL	K	109	203.440	125.318	-66.891	1.00	51.30	KS11
ATOM	44617	O	VAL	K	109	204.179	124.327	-66.862	1.00	51.30	KS11
ATOM	44618	N	ASP	K	110	202.387	125.481	-66.091	1.00	57.21	KS11
ATOM	44619	CA	ASP	K	110	201.974	124.461	-65.138	1.00	57.21	KS11
ATOM	44620	CB	ASP	K	110	201.100	125.058	-64.039	1.00	141.17	KS11
ATOM	44621	CG	ASP	K	110	200.729	124.038	-62.975	1.00	141.17	KS11
ATOM	44622	OD1	ASP	K	110	200.430	122.877	-63.334	1.00	141.17	KS11
ATOM	44623	OD2	ASP	K	110	200.724	124.400	-61.778	1.00	141.17	KS11
ATOM	44624	C	ASP	K	110	201.127	123.518	-65.976	1.00	57.21	KS11
ATOM	44625	O	ASP	K	110	200.109	123.921	-66.526	1.00	57.21	KS11
ATOM	44626	N	ASP	K	111	201.548	122.269	-66.086	1.00	47.52	KS11
ATOM	44627	CA	ASP	K	111	200.807	121.308	-66.878	1.00	47.52	KS11
ATOM	44628	CB	ASP	K	111	201.582	120.990	-68.158	1.00	91.27	KS11
ATOM	44629	CG	ASP	K	111	200.810	120.088	-69.095	1.00	91.27	KS11
ATOM	44630	OD1	ASP	K	111	199.699	120.488	-69.504	1.00	91.27	KS11
ATOM	44631	OD2	ASP	K	111	201.307	118.985	-69.418	1.00	91.27	KS11
ATOM	44632	C	ASP	K	111	200.557	120.031	-66.081	1.00	47.52	KS11
ATOM	44633	O	ASP	K	111	200.304	118.968	-66.648	1.00	47.52	KS11
ATOM	44634	N	THR	K	112	200.626	120.133	-64.759	1.00	55.72	KS11
ATOM	44635	CA	THR	K	112	200.398	118.972	-63.912	1.00	55.72	KS11
ATOM	44636	CB	THR	K	112	200.242	119.376	-62.449	1.00	48.44	KS11
ATOM	44637	OG1	THR	K	112	201.229	120.365	-62.107	1.00	48.44	KS11
ATOM	44638	CG2	THR	K	112	200.410	118.146	-61.569	1.00	48.44	KS11
ATOM	44639	C	THR	K	112	199.123	118.249	-64.341	1.00	55.72	KS11
ATOM	44640	O	THR	K	112	198.113	118.882	-64.634	1.00	55.72	KS11
ATOM	44641	N	PRO	K	113	199.157	116.910	-64.387	1.00	60.42	KS11
ATOM	44642	CD	PRO	K	113	200.346	116.054	-64.229	1.00	43.25	KS11



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ATOM	44643	CA	PRO	K	113	197.995	116.110	-64.784	1.00	60.42	KS11
ATOM	44644	CB	PRO	K	113	198.630	114.831	-65.284	1.00	43.25	KS11
ATOM	44645	CG	PRO	K	113	199.758	114.652	-64.311	1.00	43.25	KS11
ATOM	44646	C	PRO	K	113	197.024	115.833	-63.643	1.00	60.42	KS11
ATOM	44647	O	PRO	K	113	197.408	115.359	-62.577	1.00	60.42	KS11
ATOM	44648	N	VAL	K	114	195.757	116.121	-63.870	1.00	51.85	KS11
ATOM	44649	CA	VAL	K	114	194.763	115.868	-62.850	1.00	51.85	KS11
ATOM	44650	CB	VAL	K	114	194.080	117.166	-62.402	1.00	55.94	KS11
ATOM	44651	CG1	VAL	K	114	193.541	117.915	-63.620	1.00	55.94	KS11
ATOM	44652	CG2	VAL	K	114	192.953	116.849	-61.426	1.00	55.94	KS11
ATOM	44653	C	VAL	K	114	193.721	114.939	-63.445	1.00	51.85	KS11
ATOM	44654	O	VAL	K	114	193.389	115.043	-64.624	1.00	51.85	KS11
ATOM	44655	N	PRO	K	115	193.203	114.001	-62.645	1.00	55.62	KS11
ATOM	44656	CD	PRO	K	115	193.703	113.519	-61.352	1.00	30.05	KS11
ATOM	44657	CA	PRO	K	115	192.191	113.088	-63.183	1.00	55.62	KS11
ATOM	44658	CB	PRO	K	115	192.312	111.854	-62.294	1.00	30.05	KS11
ATOM	44659	CG	PRO	K	115	193.639	112.040	-61.558	1.00	30.05	KS11
ATOM	44660	C	PRO	K	115	190.834	113.719	-63.013	1.00	55.62	KS11
ATOM	44661	O	PRO	K	115	190.616	114.454	-62.045	1.00	55.62	KS11
ATOM	44662	N	HIS	K	116	189.929	113.440	-63.948	1.00	51.21	KS11
ATOM	44663	CA	HIS	K	116	188.558	113.942	-63.864	1.00	51.21	KS11
ATOM	44664	CB	HIS	K	116	188.021	114.181	-65.270	1.00	56.28	KS11
ATOM	44665	CG	HIS	K	116	188.747	115.280	-65.989	1.00	56.28	KS11
ATOM	44666	CD2	HIS	K	116	188.401	116.039	-67.058	1.00	56.28	KS11
ATOM	44667	ND1	HIS	K	116	189.982	115.738	-65.581	1.00	56.28	KS11
ATOM	44668	CE1	HIS	K	116	190.361	116.738	-66.359	1.00	56.28	KS11
ATOM	44669	NE2	HIS	K	116	189.419	116.942	-67.263	1.00	56.28	KS11
ATOM	44670	C	HIS	K	116	187.792	112.853	-63.094	1.00	51.21	KS11
ATOM	44671	O	HIS	K	116	186.600	112.593	-63.311	1.00	51.21	KS11
ATOM	44672	N	ASN	K	117	188.559	112.237	-62.184	1.00	68.23	KS11
ATOM	44673	CA	ASN	K	117	188.164	111.172	-61.271	1.00	68.23	KS11
ATOM	44674	CB	ASN	K	117	186.886	111.555	-60.568	1.00	70.73	KS11
ATOM	44675	CG	ASN	K	117	187.138	112.597	-59.526	1.00	70.73	KS11
ATOM	44676	OD1	ASN	K	117	187.695	112.303	-58.469	1.00	70.73	KS11
ATOM	44677	ND2	ASN	K	117	186.778	113.838	-59.826	1.00	70.73	KS11
ATOM	44678	C	ASN	K	117	188.066	109.812	-61.895	1.00	68.23	KS11
ATOM	44679	O	ASN	K	117	187.000	109.379	-62.302	1.00	68.23	KS11
ATOM	44680	N	GLY	K	118	189.201	109.127	-61.944	1.00	45.10	KS11
ATOM	44681	CA	GLY	K	118	189.221	107.819	-62.552	1.00	45.10	KS11
ATOM	44682	C	GLY	K	118	189.657	106.662	-61.678	1.00	45.10	KS11
ATOM	44683	O	GLY	K	118	188.885	105.717	-61.463	1.00	45.10	KS11
ATOM	44684	N	CYS	K	119	190.882	106.700	-61.169	1.00	41.84	KS11
ATOM	44685	CA	CYS	K	119	191.334	105.580	-60.351	1.00	41.84	KS11
ATOM	44686	CB	CYS	K	119	192.696	105.093	-60.838	1.00	73.21	KS11
ATOM	44687	SG	CYS	K	119	192.654	104.484	-62.522	1.00	73.21	KS11
ATOM	44688	C	CYS	K	119	191.396	105.838	-58.860	1.00	41.84	KS11
ATOM	44689	O	CYS	K	119	191.918	106.863	-58.407	1.00	41.84	KS11
ATOM	44690	N	ARG	K	120	190.856	104.897	-58.096	1.00	33.81	KS11
ATOM	44691	CA	ARG	K	120	190.881	105.030	-56.656	1.00	33.81	KS11
ATOM	44692	CB	ARG	K	120	190.301	103.785	-55.988	1.00	45.74	KS11
ATOM	44693	CG	ARG	K	120	190.652	103.697	-54.525	1.00	45.74	KS11
ATOM	44694	CD	ARG	K	120	189.908	102.599	-53.816	1.00	45.74	KS11
ATOM	44695	NE	ARG	K	120	188.681	103.102	-53.198	1.00	45.74	KS11
ATOM	44696	CZ	ARG	K	120	188.320	102.853	-51.935	1.00	45.74	KS11
ATOM	44697	NH1	ARG	K	120	189.093	102.104	-51.144	1.00	45.74	KS11
ATOM	44698	NH2	ARG	K	120	187.180	103.344	-51.460	1.00	45.74	KS11
ATOM	44699	C	ARG	K	120	192.335	105.189	-56.255	1.00	33.81	KS11
ATOM	44700	O	ARG	K	120	193.161	104.324	-56.550	1.00	33.81	KS11
ATOM	44701	N	PRO	K	121	192.686	106.316	-55.618	1.00	30.48	KS11
ATOM	44702	CD	PRO	K	121	191.909	107.550	-55.428	1.00	36.51	KS11
ATOM	44703	CA	PRO	K	121	194.080	106.505	-55.203	1.00	30.48	KS11
ATOM	44704	CB	PRO	K	121	194.115	107.963	-54.759	1.00	36.51	KS11
ATOM	44705	CG	PRO	K	121	192.691	108.238	-54.350	1.00	36.51	KS11
ATOM	44706	C	PRO	K	121	194.415	105.547	-54.072	1.00	30.48	KS11
ATOM	44707	O	PRO	K	121	193.527	105.141	-53.321	1.00	30.48	KS11
ATOM	44708	N	LYS	K	122	195.680	105.154	-53.958	1.00	43.79	KS11
ATOM	44709	CA	LYS	K	122	196.038	104.239	-52.883	1.00	43.79	KS11
ATOM	44710	CB	LYS	K	122	197.517	103.869	-52.934	1.00	81.70	KS11
ATOM	44711	CG	LYS	K	122	198.424	104.950	-53.482	1.00	81.70	KS11
ATOM	44712	CD	LYS	K	122	199.882	104.515	-53.392	1.00	81.70	KS11
ATOM	44713	CE	LYS	K	122	200.116	103.167	-54.058	1.00	81.70	KS11
ATOM	44714	NZ	LYS	K	122	201.531	102.742	-53.913	1.00	81.70	KS11
ATOM	44715	C	LYS	K	122	195.700	104.919	-51.567	1.00	43.79	KS11
ATOM	44716	O	LYS	K	122	195.626	106.154	-51.501	1.00	43.79	KS11
ATOM	44717	N	LYS	K	123	195.475	104.100	-50.540	1.00	31.68	KS11
ATOM	44718	CA	LYS	K	123	195.104	104.576	-49.213	1.00	31.68	KS11
ATOM	44719	CB	LYS	K	123	195.459	103.531	-48.170	1.00	44.40	KS11



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ATOM	44720	CG	LYS	K	123	195.182	103.945	-46.748	1.00	44.40	KS11
ATOM	44721	CD	LYS	K	123	195.028	102.694	-45.904	1.00	44.40	KS11
ATOM	44722	CE	LYS	K	123	195.458	102.910	-44.455	1.00	44.40	KS11
ATOM	44723	NZ	LYS	K	123	195.412	101.628	-43.662	1.00	44.40	KS11
ATOM	44724	C	LYS	K	123	195.775	105.880	-48.876	1.00	31.68	KS11
ATOM	44725	O	LYS	K	123	195.113	106.893	-48.697	1.00	31.68	KS11
ATOM	44726	N	LYS	K	124	197.098	105.856	-48.807	1.00	34.18	KS11
ATOM	44727	CA	LYS	K	124	197.876	107.047	-48.487	1.00	34.18	KS11
ATOM	44728	CB	LYS	K	124	199.324	106.831	-48.928	1.00	108.19	KS11
ATOM	44729	CG	LYS	K	124	200.265	107.913	-48.493	1.00	108.19	KS11
ATOM	44730	CD	LYS	K	124	201.591	107.783	-49.193	1.00	108.19	KS11
ATOM	44731	CE	LYS	K	124	202.429	109.010	-48.949	1.00	108.19	KS11
ATOM	44732	NZ	LYS	K	124	203.504	109.113	-49.959	1.00	108.19	KS11
ATOM	44733	C	LYS	K	124	197.333	108.338	-49.114	1.00	34.18	KS11
ATOM	44734	O	LYS	K	124	197.642	109.420	-48.653	1.00	34.18	KS11
ATOM	44735	N	PHE	K	125	196.518	108.241	-50.155	1.00	47.08	KS11
ATOM	44736	CA	PHE	K	125	196.011	109.446	-50.801	1.00	47.08	KS11
ATOM	44737	CB	PHE	K	125	196.468	109.487	-52.265	1.00	61.00	KS11
ATOM	44738	CG	PHE	K	125	197.950	109.653	-52.447	1.00	61.00	KS11
ATOM	44739	CD1	PHE	K	125	198.844	108.758	-51.878	1.00	61.00	KS11
ATOM	44740	CD2	PHE	K	125	198.453	110.709	-53.192	1.00	61.00	KS11
ATOM	44741	CE1	PHE	K	125	200.217	108.914	-52.047	1.00	61.00	KS11
ATOM	44742	CE2	PHE	K	125	199.821	110.876	-53.369	1.00	61.00	KS11
ATOM	44743	CZ	PHE	K	125	200.704	109.975	-52.793	1.00	61.00	KS11
ATOM	44744	C	PHE	K	125	194.494	109.602	-50.767	1.00	47.08	KS11
ATOM	44745	O	PHE	K	125	193.956	110.519	-51.394	1.00	47.08	KS11
ATOM	44746	N	ARG	K	126	193.797	108.719	-50.062	1.00	71.85	KS11
ATOM	44747	CA	ARG	K	126	192.346	108.817	-50.008	1.00	71.85	KS11
ATOM	44748	CB	ARG	K	126	191.713	107.472	-49.673	1.00	71.97	KS11
ATOM	44749	CG	ARG	K	126	191.837	106.435	-50.762	1.00	71.97	KS11
ATOM	44750	CD	ARG	K	126	190.775	105.385	-50.578	1.00	71.97	KS11
ATOM	44751	NE	ARG	K	126	189.456	105.974	-50.775	1.00	71.97	KS11
ATOM	44752	CZ	ARG	K	126	188.380	105.645	-50.069	1.00	71.97	KS11
ATOM	44753	NH1	ARG	K	126	188.469	104.732	-49.113	1.00	71.97	KS11
ATOM	44754	NH2	ARG	K	126	187.213	106.225	-50.318	1.00	71.97	KS11
ATOM	44755	C	ARG	K	126	191.872	109.854	-49.010	1.00	71.85	KS11
ATOM	44756	O	ARG	K	126	192.121	111.044	-49.190	1.00	71.85	KS11
ATOM	44757	N	LYS	K	127	191.183	109.399	-47.965	1.00	162.10	KS11
ATOM	44758	CA	LYS	K	127	190.641	110.279	-46.934	1.00	162.10	KS11
ATOM	44759	CB	LYS	K	127	191.435	110.134	-45.636	1.00	132.03	KS11
ATOM	44760	CG	LYS	K	127	191.002	108.927	-44.837	1.00	132.03	KS11
ATOM	44761	CD	LYS	K	127	189.483	108.919	-44.700	1.00	132.03	KS11
ATOM	44762	CE	LYS	K	127	188.991	107.670	-44.005	1.00	132.03	KS11
ATOM	44763	NZ	LYS	K	127	189.562	107.558	-42.637	1.00	132.03	KS11
ATOM	44764	C	LYS	K	127	190.572	111.738	-47.347	1.00	162.10	KS11
ATOM	44765	O	LYS	K	127	191.331	112.579	-46.862	1.00	162.10	KS11
ATOM	44766	N	ALA	K	128	189.645	112.021	-48.253	1.00	158.38	KS11
ATOM	44767	CA	ALA	K	128	189.444	113.364	-48.769	1.00	158.38	KS11
ATOM	44768	CB	ALA	K	128	190.267	113.551	-50.046	1.00	56.21	KS11
ATOM	44769	C	ALA	K	128	187.955	113.592	-49.050	1.00	158.38	KS11
ATOM	44770	O	ALA	K	128	187.134	113.564	-48.131	1.00	158.38	KS11
ATOM	44771	N	SER	K	129	187.625	113.812	-50.323	1.00	197.98	KS11
ATOM	44772	CA	SER	K	129	186.251	114.047	-50.786	1.00	197.98	KS11
ATOM	44773	CB	SER	K	129	185.488	112.717	-50.896	1.00	142.43	KS11
ATOM	44774	OG	SER	K	129	185.381	112.060	-49.644	1.00	142.43	KS11
ATOM	44775	C	SER	K	129	185.436	115.035	-49.949	1.00	197.98	KS11
ATOM	44776	O	SER	K	129	185.979	115.585	-48.966	1.00	197.98	KS11
ATOM	44777	OXT	SER	K	129	184.255	115.256	-50.300	1.00	171.40	KS11
TER	44777		SER	K	129						KS11
ATOM	44778	CB	PRO	L	5	149.920	101.578	-24.706	1.00	24.40	LS12
ATOM	44779	CG	PRO	L	5	150.868	101.644	-23.487	1.00	24.40	LS12
ATOM	44780	C	PRO	L	5	148.789	103.590	-25.577	1.00	41.79	LS12
ATOM	44781	O	PRO	L	5	148.288	104.244	-24.675	1.00	41.79	LS12
ATOM	44782	N	PRO	L	5	150.905	103.782	-24.444	1.00	41.79	LS12
ATOM	44783	CD	PRO	L	5	150.976	103.129	-23.124	1.00	24.40	LS12
ATOM	44784	CA	PRO	L	5	150.134	102.932	-25.375	1.00	41.79	LS12
ATOM	44785	N	THR	L	6	148.199	103.421	-26.751	1.00	13.80	LS12
ATOM	44786	CA	THR	L	6	146.886	103.986	-26.994	1.00	13.80	LS12
ATOM	44787	CB	THR	L	6	146.513	103.882	-28.466	1.00	21.10	LS12
ATOM	44788	OG1	THR	L	6	146.402	102.505	-28.833	1.00	21.10	LS12
ATOM	44789	CG2	THR	L	6	147.567	104.543	-29.316	1.00	21.10	LS12
ATOM	44790	C	THR	L	6	145.893	103.155	-26.180	1.00	13.80	LS12
ATOM	44791	O	THR	L	6	146.214	102.046	-25.742	1.00	13.80	LS12
ATOM	44792	N	ILE	L	7	144.690	103.669	-25.953	1.00	31.93	LS12
ATOM	44793	CA	ILE	L	7	143.734	102.880	-25.195	1.00	31.93	LS12
ATOM	44794	CB	ILE	L	7	142.431	103.647	-24.916	1.00	23.38	LS12
ATOM	44795	CG2	ILE	L	7	141.273	102.679	-24.771	1.00	23.38	LS12



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ATOM	44796	CG1	ILE	L	7	142.576	104.445	-23.624	1.00	23.38	LS12
ATOM	44797	CD1	ILE	L	7	142.898	103.566	-22.420	1.00	23.38	LS12
ATOM	44798	C	ILE	L	7	143.423	101.626	-25.983	1.00	31.93	LS12
ATOM	44799	O	ILE	L	7	143.329	100.543	-25.419	1.00	31.93	LS12
ATOM	44800	N	ASN	L	8	143.275	101.760	-27.294	1.00	43.04	LS12
ATOM	44801	CA	ASN	L	8	142.989	100.583	-28.094	1.00	43.04	LS12
ATOM	44802	CB	ASN	L	8	142.912	100.932	-29.566	1.00	45.40	LS12
ATOM	44803	CG	ASN	L	8	142.350	99.804	-30.374	1.00	45.40	LS12
ATOM	44804	OD1	ASN	L	8	141.253	99.332	-30.094	1.00	45.40	LS12
ATOM	44805	ND2	ASN	L	8	143.092	99.352	-31.377	1.00	45.40	LS12
ATOM	44806	C	ASN	L	8	144.076	99.531	-27.885	1.00	43.04	LS12
ATOM	44807	O	ASN	L	8	143.789	98.351	-27.665	1.00	43.04	LS12
ATOM	44808	N	GLN	L	9	145.327	99.964	-27.962	1.00	35.05	LS12
ATOM	44809	CA	GLN	L	9	146.437	99.053	-27.757	1.00	35.05	LS12
ATOM	44810	CB	GLN	L	9	147.751	99.814	-27.754	1.00	40.89	LS12
ATOM	44811	CG	GLN	L	9	148.087	100.413	-29.096	1.00	40.89	LS12
ATOM	44812	CD	GLN	L	9	149.459	101.020	-29.100	1.00	40.89	LS12
ATOM	44813	OE1	GLN	L	9	149.754	101.918	-28.306	1.00	40.89	LS12
ATOM	44814	NE2	GLN	L	9	150.323	100.529	-29.993	1.00	40.89	LS12
ATOM	44815	C	GLN	L	9	146.260	98.338	-26.432	1.00	35.05	LS12
ATOM	44816	O	GLN	L	9	146.397	97.114	-26.358	1.00	35.05	LS12
ATOM	44817	N	LEU	L	10	145.963	99.097	-25.379	1.00	24.75	LS12
ATOM	44818	CA	LEU	L	10	145.747	98.488	-24.075	1.00	24.75	LS12
ATOM	44819	CB	LEU	L	10	145.398	99.546	-23.035	1.00	36.10	LS12
ATOM	44820	CG	LEU	L	10	146.622	100.233	-22.450	1.00	36.10	LS12
ATOM	44821	CD1	LEU	L	10	146.226	101.329	-21.452	1.00	36.10	LS12
ATOM	44822	CD2	LEU	L	10	147.460	99.154	-21.777	1.00	36.10	LS12
ATOM	44823	C	LEU	L	10	144.626	97.454	-24.146	1.00	24.75	LS12
ATOM	44824	O	LEU	L	10	144.709	96.409	-23.511	1.00	24.75	LS12
ATOM	44825	N	VAL	L	11	143.580	97.728	-24.921	1.00	45.25	LS12
ATOM	44826	CA	VAL	L	11	142.486	96.765	-25.027	1.00	45.25	LS12
ATOM	44827	CB	VAL	L	11	141.299	97.284	-25.870	1.00	28.11	LS12
ATOM	44828	CG1	VAL	L	11	140.171	96.275	-25.801	1.00	28.11	LS12
ATOM	44829	CG2	VAL	L	11	140.827	98.648	-25.367	1.00	28.11	LS12
ATOM	44830	C	VAL	L	11	142.994	95.498	-25.698	1.00	45.25	LS12
ATOM	44831	O	VAL	L	11	142.560	94.398	-25.366	1.00	45.25	LS12
ATOM	44832	N	ARG	L	12	143.912	95.660	-26.647	1.00	36.64	LS12
ATOM	44833	CA	ARG	L	12	144.462	94.516	-27.344	1.00	36.64	LS12
ATOM	44834	CB	ARG	L	12	145.112	94.929	-28.669	1.00	49.03	LS12
ATOM	44835	CG	ARG	L	12	144.132	95.421	-29.715	1.00	49.03	LS12
ATOM	44836	CD	ARG	L	12	144.726	95.464	-31.117	1.00	49.03	LS12
ATOM	44837	NE	ARG	L	12	145.853	96.387	-31.217	1.00	49.03	LS12
ATOM	44838	CZ	ARG	L	12	147.110	96.012	-31.453	1.00	49.03	LS12
ATOM	44839	NH1	ARG	L	12	147.403	94.724	-31.616	1.00	49.03	LS12
ATOM	44840	NH2	ARG	L	12	148.077	96.920	-31.519	1.00	49.03	LS12
ATOM	44841	C	ARG	L	12	145.476	93.792	-26.479	1.00	36.64	LS12
ATOM	44842	O	ARG	L	12	145.163	92.729	-25.944	1.00	36.64	LS12
ATOM	44843	N	LYS	L	13	146.674	94.367	-26.328	1.00	31.33	LS12
ATOM	44844	CA	LYS	L	13	147.753	93.762	-25.536	1.00	31.33	LS12
ATOM	44845	CB	LYS	L	13	149.088	94.357	-25.973	1.00	90.44	LS12
ATOM	44846	CG	LYS	L	13	149.369	94.158	-27.456	1.00	90.44	LS12
ATOM	44847	CD	LYS	L	13	150.524	95.037	-27.930	1.00	90.44	LS12
ATOM	44848	CE	LYS	L	13	150.671	95.023	-29.455	1.00	90.44	LS12
ATOM	44849	NZ	LYS	L	13	151.604	96.083	-29.957	1.00	90.44	LS12
ATOM	44850	C	LYS	L	13	147.596	93.865	-24.004	1.00	31.33	LS12
ATOM	44851	O	LYS	L	13	147.903	92.918	-23.281	1.00	31.33	LS12
ATOM	44852	N	GLY	L	14	147.123	95.000	-23.498	1.00	50.84	LS12
ATOM	44853	CA	GLY	L	14	146.925	95.125	-22.058	1.00	50.84	LS12
ATOM	44854	C	GLY	L	14	148.188	95.069	-21.225	1.00	50.84	LS12
ATOM	44855	O	GLY	L	14	149.238	94.681	-21.726	1.00	50.84	LS12
ATOM	44856	N	ARG	L	15	148.090	95.449	-19.953	1.00	49.20	LS12
ATOM	44857	CA	ARG	L	15	149.252	95.451	-19.061	1.00	49.20	LS12
ATOM	44858	CB	ARG	L	15	148.968	96.335	-17.841	1.00	52.42	LS12
ATOM	44859	CG	ARG	L	15	148.742	97.822	-18.169	1.00	52.42	LS12
ATOM	44860	CD	ARG	L	15	149.986	98.455	-18.808	1.00	52.42	LS12
ATOM	44861	NE	ARG	L	15	149.781	99.848	-19.207	1.00	52.42	LS12
ATOM	44862	CZ	ARG	L	15	150.703	100.593	-19.809	1.00	52.42	LS12
ATOM	44863	NH1	ARG	L	15	151.894	100.085	-20.081	1.00	52.42	LS12
ATOM	44864	NH2	ARG	L	15	150.437	101.842	-20.147	1.00	52.42	LS12
ATOM	44865	C	ARG	L	15	149.674	94.049	-18.596	1.00	49.20	LS12
ATOM	44866	O	ARG	L	15	148.850	93.138	-18.526	1.00	49.20	LS12
ATOM	44867	N	GLU	L	16	150.957	93.881	-18.277	1.00	36.50	LS12
ATOM	44868	CA	GLU	L	16	151.494	92.591	-17.824	1.00	36.50	LS12
ATOM	44869	CB	GLU	L	16	152.724	92.236	-18.657	1.00	98.19	LS12
ATOM	44870	CG	GLU	L	16	153.553	91.099	-18.103	1.00	98.19	LS12
ATOM	44871	CD	GLU	L	16	154.747	90.782	-18.980	1.00	98.19	LS12
ATOM	44872	OE1	GLU	L	16	155.495	91.723	-19.328	1.00	98.19	LS12



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ATOM	44873	OE2	GLU	L	16	154.943	89.595	-19.318	1.00	98.19	LS12
ATOM	44874	C	GLU	L	16	151.858	92.618	-16.330	1.00	36.50	LS12
ATOM	44875	O	GLU	L	16	152.785	93.327	-15.921	1.00	36.50	LS12
ATOM	44876	N	LYS	L	17	151.133	91.839	-15.524	1.00	49.53	LS12
ATOM	44877	CA	LYS	L	17	151.351	91.793	-14.077	1.00	49.53	LS12
ATOM	44878	CB	LYS	L	17	150.304	90.900	-13.406	1.00	93.05	LS12
ATOM	44879	CG	LYS	L	17	148.852	91.404	-13.504	1.00	93.05	LS12
ATOM	44880	CD	LYS	L	17	148.559	92.624	-12.605	1.00	93.05	LS12
ATOM	44881	CE	LYS	L	17	149.059	93.966	-13.179	1.00	93.05	LS12
ATOM	44882	NZ	LYS	L	17	148.271	94.477	-14.351	1.00	93.05	LS12
ATOM	44883	C	LYS	L	17	152.742	91.311	-13.715	1.00	49.53	LS12
ATOM	44884	O	LYS	L	17	153.344	90.518	-14.439	1.00	49.53	LS12
ATOM	44885	N	VAL	L	18	153.248	91.804	-12.589	1.00	84.51	LS12
ATOM	44886	CA	VAL	L	18	154.580	91.444	-12.102	1.00	84.51	LS12
ATOM	44887	CB	VAL	L	18	155.140	92.557	-11.175	1.00	90.72	LS12
ATOM	44888	CG1	VAL	L	18	156.296	92.017	-10.338	1.00	90.72	LS12
ATOM	44889	CG2	VAL	L	18	155.598	93.755	-12.015	1.00	90.72	LS12
ATOM	44890	C	VAL	L	18	154.607	90.114	-11.346	1.00	84.51	LS12
ATOM	44891	O	VAL	L	18	153.656	89.771	-10.647	1.00	84.51	LS12
ATOM	44892	N	ARG	L	19	155.701	89.369	-11.495	1.00	78.41	LS12
ATOM	44893	CA	ARG	L	19	155.870	88.081	-10.821	1.00	78.41	LS12
ATOM	44894	CB	ARG	L	19	156.143	86.967	-11.827	1.00	184.13	LS12
ATOM	44895	CG	ARG	L	19	155.083	86.755	-12.872	1.00	184.13	LS12
ATOM	44896	CD	ARG	L	19	155.610	85.799	-13.922	1.00	184.13	LS12
ATOM	44897	NE	ARG	L	19	154.608	85.473	-14.928	1.00	184.13	LS12
ATOM	44898	CZ	ARG	L	19	154.850	84.742	-16.010	1.00	184.13	LS12
ATOM	44899	NH1	ARG	L	19	156.067	84.261	-16.229	1.00	184.13	LS12
ATOM	44900	NH2	ARG	L	19	153.873	84.488	-16.870	1.00	184.13	LS12
ATOM	44901	C	ARG	L	19	157.079	88.180	-9.917	1.00	78.41	LS12
ATOM	44902	O	ARG	L	19	158.199	88.290	-10.403	1.00	78.41	LS12
ATOM	44903	N	LYS	L	20	156.870	88.139	-8.610	1.00	69.29	LS12
ATOM	44904	CA	LYS	L	20	157.999	88.219	-7.692	1.00	69.29	LS12
ATOM	44905	CB	LYS	L	20	157.513	88.601	-6.290	1.00	143.29	LS12
ATOM	44906	CG	LYS	L	20	156.912	89.997	-6.240	1.00	143.29	LS12
ATOM	44907	CD	LYS	L	20	156.241	90.301	-4.912	1.00	143.29	LS12
ATOM	44908	CE	LYS	L	20	155.565	91.667	-4.966	1.00	143.29	LS12
ATOM	44909	NZ	LYS	L	20	154.826	92.009	-3.719	1.00	143.29	LS12
ATOM	44910	C	LYS	L	20	158.722	86.871	-7.665	1.00	69.29	LS12
ATOM	44911	O	LYS	L	20	158.079	85.817	-7.681	1.00	69.29	LS12
ATOM	44912	N	LYS	L	21	160.056	86.908	-7.652	1.00	64.65	LS12
ATOM	44913	CA	LYS	L	21	160.867	85.687	-7.624	1.00	64.65	LS12
ATOM	44914	CB	LYS	L	21	162.013	85.777	-8.640	1.00	106.54	LS12
ATOM	44915	CG	LYS	L	21	161.541	85.860	-10.088	1.00	106.54	LS12
ATOM	44916	CD	LYS	L	21	162.706	85.941	-11.066	1.00	106.54	LS12
ATOM	44917	CE	LYS	L	21	162.216	86.083	-12.505	1.00	106.54	LS12
ATOM	44918	NZ	LYS	L	21	163.345	86.158	-13.476	1.00	106.54	LS12
ATOM	44919	C	LYS	L	21	161.430	85.466	-6.225	1.00	64.65	LS12
ATOM	44920	O	LYS	L	21	162.178	86.293	-5.710	1.00	64.65	LS12
ATOM	44921	N	SER	L	22	161.058	84.345	-5.618	1.00	64.00	LS12
ATOM	44922	CA	SER	L	22	161.503	84.020	-4.273	1.00	64.00	LS12
ATOM	44923	CB	SER	L	22	161.109	82.601	-3.907	1.00	49.72	LS12
ATOM	44924	OG	SER	L	22	161.728	82.239	-2.691	1.00	49.72	LS12
ATOM	44925	C	SER	L	22	162.994	84.144	-4.136	1.00	64.00	LS12
ATOM	44926	O	SER	L	22	163.717	84.060	-5.124	1.00	64.00	LS12
ATOM	44927	N	LYS	L	23	163.457	84.339	-2.908	1.00	46.09	LS12
ATOM	44928	CA	LYS	L	23	164.889	84.455	-2.649	1.00	46.09	LS12
ATOM	44929	CB	LYS	L	23	165.221	85.812	-2.026	1.00	83.44	LS12
ATOM	44930	CG	LYS	L	23	165.288	86.959	-3.012	1.00	83.44	LS12
ATOM	44931	CD	LYS	L	23	165.811	88.210	-2.333	1.00	83.44	LS12
ATOM	44932	CE	LYS	L	23	166.099	89.301	-3.354	1.00	83.44	LS12
ATOM	44933	NZ	LYS	L	23	166.818	90.475	-2.761	1.00	83.44	LS12
ATOM	44934	C	LYS	L	23	165.322	83.354	-1.702	1.00	46.09	LS12
ATOM	44935	O	LYS	L	23	166.438	83.366	-1.183	1.00	46.09	LS12
ATOM	44936	N	VAL	L	24	164.442	82.389	-1.492	1.00	45.30	LS12
ATOM	44937	CA	VAL	L	24	164.733	81.313	-0.569	1.00	45.30	LS12
ATOM	44938	CB	VAL	L	24	164.256	81.691	0.862	1.00	34.18	LS12
ATOM	44939	CG1	VAL	L	24	164.293	80.488	1.784	1.00	34.18	LS12
ATOM	44940	CG2	VAL	L	24	165.136	82.771	1.423	1.00	34.18	LS12
ATOM	44941	C	VAL	L	24	164.063	80.013	-0.971	1.00	45.30	LS12
ATOM	44942	O	VAL	L	24	162.934	79.747	-0.565	1.00	45.30	LS12
ATOM	44943	N	PRO	L	25	164.710	79.213	-1.830	1.00	55.49	LS12
ATOM	44944	CD	PRO	L	25	165.506	79.563	-3.025	1.00	32.30	LS12
ATOM	44945	CA	PRO	L	25	163.904	78.010	-2.069	1.00	55.49	LS12
ATOM	44946	CB	PRO	L	25	164.398	77.529	-3.419	1.00	32.30	LS12
ATOM	44947	CG	PRO	L	25	164.741	78.857	-4.112	1.00	32.30	LS12
ATOM	44948	C	PRO	L	25	164.065	76.985	-0.931	1.00	55.49	LS12
ATOM	44949	O	PRO	L	25	164.679	75.924	-1.076	1.00	55.49	LS12



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ATOM	44950	N	ALA	L	26	163.514	77.360	0.224	1.00113.31	LS12
ATOM	44951	CA	ALA	L	26	163.495	76.524	1.420	1.00113.31	LS12
ATOM	44952	CB	ALA	L	26	163.117	77.378	2.696	1.00 2.41	LS12
ATOM	44953	C	ALA	L	26	162.362	75.583	1.058	1.00113.31	LS12
ATOM	44954	O	ALA	L	26	161.798	74.909	1.916	1.00113.31	LS12
ATOM	44955	N	LEU	L	27	162.040	75.581	-0.240	1.00 76.19	LS12
ATOM	44956	CA	LEU	L	27	160.969	74.782	-0.845	1.00 76.19	LS12
ATOM	44957	CB	LEU	L	27	161.354	73.298	-0.948	1.00109.24	LS12
ATOM	44958	CG	LEU	L	27	160.413	72.397	-1.768	1.00109.24	LS12
ATOM	44959	CD1	LEU	L	27	160.785	72.499	-3.245	1.00109.24	LS12
ATOM	44960	CD2	LEU	L	27	160.520	70.945	-1.309	1.00109.24	LS12
ATOM	44961	C	LEU	L	27	159.713	74.905	-0.017	1.00 76.19	LS12
ATOM	44962	O	LEU	L	27	159.721	75.548	1.036	1.00 76.19	LS12
ATOM	44963	N	LYS	L	28	158.639	74.279	-0.491	1.00157.24	LS12
ATOM	44964	CA	LYS	L	28	157.366	74.322	0.208	1.00157.24	LS12
ATOM	44965	CB	LYS	L	28	157.389	73.415	1.442	1.00151.09	LS12
ATOM	44966	CG	LYS	L	28	157.085	71.945	1.224	1.00151.09	LS12
ATOM	44967	CD	LYS	L	28	156.936	71.274	2.589	1.00151.09	LS12
ATOM	44968	CE	LYS	L	28	156.584	69.800	2.496	1.00151.09	LS12
ATOM	44969	NZ	LYS	L	28	156.446	69.195	3.857	1.00151.09	LS12
ATOM	44970	C	LYS	L	28	157.110	75.740	0.683	1.00157.24	LS12
ATOM	44971	O	LYS	L	28	156.083	76.013	1.301	1.00157.24	LS12
ATOM	44972	N	GLY	L	29	158.038	76.643	0.385	1.00 69.41	LS12
ATOM	44973	CA	GLY	L	29	157.904	78.002	0.856	1.00 69.41	LS12
ATOM	44974	C	GLY	L	29	157.512	77.957	2.325	1.00 69.41	LS12
ATOM	44975	O	GLY	L	29	156.524	78.582	2.730	1.00 69.41	LS12
ATOM	44976	N	ALA	L	30	158.263	77.198	3.124	1.00 40.74	LS12
ATOM	44977	CA	ALA	L	30	157.971	77.075	4.546	1.00 40.74	LS12
ATOM	44978	CB	ALA	L	30	158.266	75.685	5.007	1.00 14.46	LS12
ATOM	44979	C	ALA	L	30	158.782	78.070	5.355	1.00 40.74	LS12
ATOM	44980	O	ALA	L	30	159.698	78.695	4.840	1.00 40.74	LS12
ATOM	44981	N	PRO	L	31	158.435	78.246	6.634	1.00 40.18	LS12
ATOM	44982	CD	PRO	L	31	157.221	77.711	7.271	1.00 46.17	LS12
ATOM	44983	CA	PRO	L	31	159.131	79.172	7.534	1.00 40.18	LS12
ATOM	44984	CB	PRO	L	31	158.248	79.188	8.780	1.00 46.17	LS12
ATOM	44985	CG	PRO	L	31	156.902	78.780	8.273	1.00 46.17	LS12
ATOM	44986	C	PRO	L	31	160.523	78.650	7.868	1.00 40.18	LS12
ATOM	44987	O	PRO	L	31	161.474	79.415	8.036	1.00 40.18	LS12
ATOM	44988	N	PHE	L	32	160.631	77.338	7.993	1.00 58.02	LS12
ATOM	44989	CA	PHE	L	32	161.902	76.727	8.325	1.00 58.02	LS12
ATOM	44990	CB	PHE	L	32	162.062	76.587	9.836	1.00 40.59	LS12
ATOM	44991	CG	PHE	L	32	161.852	77.857	10.589	1.00 40.59	LS12
ATOM	44992	CD1	PHE	L	32	162.871	78.787	10.702	1.00 40.59	LS12
ATOM	44993	CD2	PHE	L	32	160.617	78.128	11.175	1.00 40.59	LS12
ATOM	44994	CE1	PHE	L	32	162.669	79.975	11.391	1.00 40.59	LS12
ATOM	44995	CE2	PHE	L	32	160.402	79.307	11.863	1.00 40.59	LS12
ATOM	44996	CZ	PHE	L	32	161.429	80.238	11.974	1.00 40.59	LS12
ATOM	44997	C	PHE	L	32	161.956	75.348	7.713	1.00 58.02	LS12
ATOM	44998	O	PHE	L	32	160.947	74.811	7.238	1.00 58.02	LS12
ATOM	44999	N	ARG	L	33	163.149	74.774	7.746	1.00 47.78	LS12
ATOM	45000	CA	ARG	L	33	163.376	73.457	7.205	1.00 47.78	LS12
ATOM	45001	CB	ARG	L	33	163.663	73.537	5.710	1.00112.20	LS12
ATOM	45002	CG	ARG	L	33	163.833	72.188	5.050	1.00112.20	LS12
ATOM	45003	CD	ARG	L	33	162.692	71.913	4.085	1.00112.20	LS12
ATOM	45004	NE	ARG	L	33	161.385	72.011	4.725	1.00112.20	LS12
ATOM	45005	CZ	ARG	L	33	160.231	71.851	4.086	1.00112.20	LS12
ATOM	45006	NH1	ARG	L	33	160.223	71.586	2.787	1.00112.20	LS12
ATOM	45007	NH2	ARG	L	33	159.086	71.953	4.747	1.00112.20	LS12
ATOM	45008	C	ARG	L	33	164.600	72.972	7.928	1.00 47.78	LS12
ATOM	45009	O	ARG	L	33	165.514	73.751	8.200	1.00 47.78	LS12
ATOM	45010	N	ARG	L	34	164.617	71.693	8.267	1.00 52.71	LS12
ATOM	45011	CA	ARG	L	34	165.777	71.163	8.944	1.00 52.71	LS12
ATOM	45012	CB	ARG	L	34	165.382	70.288	10.128	1.00 89.89	LS12
ATOM	45013	CG	ARG	L	34	164.814	68.959	9.729	1.00 89.89	LS12
ATOM	45014	CD	ARG	L	34	164.873	68.006	10.886	1.00 89.89	LS12
ATOM	45015	NE	ARG	L	34	164.459	66.671	10.483	1.00 89.89	LS12
ATOM	45016	CZ	ARG	L	34	164.543	65.602	11.265	1.00 89.89	LS12
ATOM	45017	NH1	ARG	L	34	165.030	65.713	12.497	1.00 89.89	LS12
ATOM	45018	NH2	ARG	L	34	164.142	64.422	10.814	1.00 89.89	LS12
ATOM	45019	C	ARG	L	34	166.579	70.346	7.951	1.00 52.71	LS12
ATOM	45020	O	ARG	L	34	166.067	69.888	6.919	1.00 52.71	LS12
ATOM	45021	N	GLY	L	35	167.851	70.184	8.278	1.00 64.70	LS12
ATOM	45022	CA	GLY	L	35	168.743	69.429	7.435	1.00 64.70	LS12
ATOM	45023	C	GLY	L	35	169.885	68.951	8.294	1.00 64.70	LS12
ATOM	45024	O	GLY	L	35	169.929	69.217	9.506	1.00 64.70	LS12
ATOM	45025	N	VAL	L	36	170.809	68.241	7.662	1.00 58.06	LS12
ATOM	45026	CA	VAL	L	36	171.974	67.718	8.349	1.00 58.06	LS12



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ATOM	45027	CB	VAL	L	36	172.085	66.215	8.144	1.00	45.22	LS12
ATOM	45028	CG1	VAL	L	36	173.408	65.725	8.692	1.00	45.22	LS12
ATOM	45029	CG2	VAL	L	36	170.920	65.516	8.829	1.00	45.22	LS12
ATOM	45030	C	VAL	L	36	173.208	68.388	7.776	1.00	58.06	LS12
ATOM	45031	O	VAL	L	36	173.262	68.678	6.579	1.00	58.06	LS12
ATOM	45032	N	CYS	L	37	174.195	68.648	8.623	1.00	50.68	LS12
ATOM	45033	CA	CYS	L	37	175.412	69.282	8.148	1.00	50.68	LS12
ATOM	45034	CB	CYS	L	37	176.210	69.820	9.315	1.00	91.24	LS12
ATOM	45035	SG	CYS	L	37	175.312	71.083	10.162	1.00	91.24	LS12
ATOM	45036	C	CYS	L	37	176.270	68.323	7.340	1.00	50.68	LS12
ATOM	45037	O	CYS	L	37	176.124	67.102	7.418	1.00	50.68	LS12
ATOM	45038	N	THR	L	38	177.174	68.888	6.561	1.00	56.80	LS12
ATOM	45039	CA	THR	L	38	178.049	68.092	5.729	1.00	56.80	LS12
ATOM	45040	CB	THR	L	38	177.688	68.271	4.250	1.00	58.90	LS12
ATOM	45041	OG1	THR	L	38	176.397	67.701	4.007	1.00	58.90	LS12
ATOM	45042	CG2	THR	L	38	178.735	67.618	3.356	1.00	58.90	LS12
ATOM	45043	C	THR	L	38	179.455	68.592	5.942	1.00	56.80	LS12
ATOM	45044	O	THR	L	38	180.379	67.819	6.175	1.00	56.80	LS12
ATOM	45045	N	VAL	L	39	179.596	69.907	5.866	1.00	64.47	LS12
ATOM	45046	CA	VAL	L	39	180.877	70.558	6.023	1.00	64.47	LS12
ATOM	45047	CB	VAL	L	39	181.379	71.075	4.681	1.00	68.37	LS12
ATOM	45048	CG1	VAL	L	39	182.845	71.435	4.787	1.00	68.37	LS12
ATOM	45049	CG2	VAL	L	39	181.126	70.042	3.605	1.00	68.37	LS12
ATOM	45050	C	VAL	L	39	180.694	71.758	6.921	1.00	64.47	LS12
ATOM	45051	O	VAL	L	39	179.805	72.572	6.692	1.00	64.47	LS12
ATOM	45052	N	VAL	L	40	181.515	71.886	7.948	1.00	42.41	LS12
ATOM	45053	CA	VAL	L	40	181.368	73.050	8.792	1.00	42.41	LS12
ATOM	45054	CB	VAL	L	40	181.228	72.668	10.274	1.00	40.77	LS12
ATOM	45055	CG1	VAL	L	40	181.057	73.923	11.102	1.00	40.77	LS12
ATOM	45056	CG2	VAL	L	40	180.026	71.751	10.474	1.00	40.77	LS12
ATOM	45057	C	VAL	L	40	182.612	73.886	8.578	1.00	42.41	LS12
ATOM	45058	O	VAL	L	40	183.404	74.078	9.489	1.00	42.41	LS12
ATOM	45059	N	ARG	L	41	182.767	74.380	7.354	1.00	44.06	LS12
ATOM	45060	CA	ARG	L	41	183.915	75.189	6.939	1.00	44.06	LS12
ATOM	45061	CB	ARG	L	41	183.865	75.360	5.418	1.00	86.22	LS12
ATOM	45062	CG	ARG	L	41	185.076	76.013	4.776	1.00	86.22	LS12
ATOM	45063	CD	ARG	L	41	184.796	76.206	3.317	1.00	86.22	LS12
ATOM	45064	NE	ARG	L	41	184.304	74.952	2.759	1.00	86.22	LS12
ATOM	45065	CZ	ARG	L	41	183.311	74.850	1.878	1.00	86.22	LS12
ATOM	45066	NH1	ARG	L	41	182.683	75.935	1.434	1.00	86.22	LS12
ATOM	45067	NH2	ARG	L	41	182.932	73.650	1.449	1.00	86.22	LS12
ATOM	45068	C	ARG	L	41	184.043	76.573	7.605	1.00	44.06	LS12
ATOM	45069	O	ARG	L	41	183.606	76.803	8.738	1.00	44.06	LS12
ATOM	45070	N	THR	L	42	184.667	77.483	6.865	1.00	89.94	LS12
ATOM	45071	CA	THR	L	42	184.915	78.856	7.276	1.00	89.94	LS12
ATOM	45072	CB	THR	L	42	186.132	78.953	8.189	1.00	71.18	LS12
ATOM	45073	OG1	THR	L	42	185.760	78.559	9.509	1.00	71.18	LS12
ATOM	45074	CG2	THR	L	42	186.674	80.367	8.212	1.00	71.18	LS12
ATOM	45075	C	THR	L	42	185.236	79.616	6.012	1.00	89.94	LS12
ATOM	45076	O	THR	L	42	186.217	79.311	5.340	1.00	89.94	LS12
ATOM	45077	N	VAL	L	43	184.420	80.604	5.682	1.00	54.66	LS12
ATOM	45078	CA	VAL	L	43	184.663	81.380	4.478	1.00	54.66	LS12
ATOM	45079	CB	VAL	L	43	183.369	81.518	3.660	1.00	81.56	LS12
ATOM	45080	CG1	VAL	L	43	183.661	82.155	2.310	1.00	81.56	LS12
ATOM	45081	CG2	VAL	L	43	182.736	80.156	3.483	1.00	81.56	LS12
ATOM	45082	C	VAL	L	43	185.210	82.774	4.795	1.00	54.66	LS12
ATOM	45083	O	VAL	L	43	185.043	83.283	5.913	1.00	54.66	LS12
ATOM	45084	N	THR	L	44	185.879	83.382	3.820	1.00	71.08	LS12
ATOM	45085	CA	THR	L	44	186.414	84.727	3.991	1.00	71.08	LS12
ATOM	45086	CB	THR	L	44	187.859	84.822	3.461	1.00	80.38	LS12
ATOM	45087	OG1	THR	L	44	187.870	84.624	2.041	1.00	80.38	LS12
ATOM	45088	CG2	THR	L	44	188.727	83.761	4.119	1.00	80.38	LS12
ATOM	45089	C	THR	L	44	185.495	85.668	3.197	1.00	71.08	LS12
ATOM	45090	O	THR	L	44	185.208	85.410	2.028	1.00	71.08	LS12
ATOM	45091	N	PRO	L	45	185.023	86.765	3.823	1.00	50.95	LS12
ATOM	45092	CD	PRO	L	45	185.400	87.169	5.184	1.00	71.51	LS12
ATOM	45093	CA	PRO	L	45	184.128	87.772	3.234	1.00	50.95	LS12
ATOM	45094	CB	PRO	L	45	184.039	88.836	4.322	1.00	71.51	LS12
ATOM	45095	CG	PRO	L	45	184.258	88.071	5.555	1.00	71.51	LS12
ATOM	45096	C	PRO	L	45	184.549	88.378	1.894	1.00	50.95	LS12
ATOM	45097	O	PRO	L	45	185.631	88.095	1.362	1.00	50.95	LS12
ATOM	45098	N	LYS	L	46	183.689	89.244	1.368	1.00	46.33	LS12
ATOM	45099	CA	LYS	L	46	183.941	89.884	0.089	1.00	46.33	LS12
ATOM	45100	CB	LYS	L	46	182.624	89.928	-0.704	1.00	85.08	LS12
ATOM	45101	CG	LYS	L	46	182.790	89.992	-2.221	1.00	85.08	LS12
ATOM	45102	CD	LYS	L	46	181.467	89.773	-2.957	1.00	85.08	LS12
ATOM	45103	CE	LYS	L	46	180.496	90.937	-2.769	1.00	85.08	LS12



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ATOM	45104	NZ	LYS	L	46	180.959	92.179	-3.437	1.00	85.08	LS12
ATOM	45105	C	LYS	L	46	184.586	91.292	0.145	1.00	46.33	LS12
ATOM	45106	O	LYS	L	46	185.206	91.699	1.135	1.00	46.33	LS12
ATOM	45107	N	LYS	L	47	184.417	92.013	-0.958	1.00	85.34	LS12
ATOM	45108	CA	LYS	L	47	184.947	93.351	-1.166	1.00	85.34	LS12
ATOM	45109	CB	LYS	L	47	183.814	94.305	-1.581	1.00	129.69	LS12
ATOM	45110	CG	LYS	L	47	183.217	94.030	-2.957	1.00	129.69	LS12
ATOM	45111	CD	LYS	L	47	182.091	95.013	-3.300	1.00	129.69	LS12
ATOM	45112	CE	LYS	L	47	181.501	94.735	-4.686	1.00	129.69	LS12
ATOM	45113	NZ	LYS	L	47	180.395	95.664	-5.055	1.00	129.69	LS12
ATOM	45114	C	LYS	L	47	185.800	93.974	-0.063	1.00	85.34	LS12
ATOM	45115	O	LYS	L	47	187.015	93.833	-0.098	1.00	85.34	LS12
ATOM	45116	N	PRO	L	48	185.194	94.644	0.937	1.00	82.12	LS12
ATOM	45117	CD	PRO	L	48	183.818	95.145	1.065	1.00	31.49	LS12
ATOM	45118	CA	PRO	L	48	186.030	95.251	1.974	1.00	82.12	LS12
ATOM	45119	CB	PRO	L	48	185.403	96.615	2.129	1.00	31.49	LS12
ATOM	45120	CG	PRO	L	48	183.967	96.277	2.102	1.00	31.49	LS12
ATOM	45121	C	PRO	L	48	186.114	94.538	3.307	1.00	82.12	LS12
ATOM	45122	O	PRO	L	48	187.138	94.595	3.987	1.00	82.12	LS12
ATOM	45123	N	ASN	L	49	185.030	93.902	3.710	1.00	57.38	LS12
ATOM	45124	CA	ASN	L	49	185.053	93.194	4.969	1.00	57.38	LS12
ATOM	45125	CB	ASN	L	49	183.657	92.726	5.331	1.00	71.70	LS12
ATOM	45126	CG	ASN	L	49	182.820	93.831	5.874	1.00	71.70	LS12
ATOM	45127	OD1	ASN	L	49	181.680	93.621	6.283	1.00	71.70	LS12
ATOM	45128	ND2	ASN	L	49	183.382	95.034	5.894	1.00	71.70	LS12
ATOM	45129	C	ASN	L	49	185.978	91.990	4.939	1.00	57.38	LS12
ATOM	45130	O	ASN	L	49	186.096	91.314	3.912	1.00	57.38	LS12
ATOM	45131	N	SER	L	50	186.635	91.725	6.067	1.00	50.15	LS12
ATOM	45132	CA	SER	L	50	187.517	90.568	6.184	1.00	50.15	LS12
ATOM	45133	CB	SER	L	50	188.971	90.980	5.950	1.00	75.99	LS12
ATOM	45134	OG	SER	L	50	189.833	89.868	6.114	1.00	75.99	LS12
ATOM	45135	C	SER	L	50	187.368	89.933	7.570	1.00	50.15	LS12
ATOM	45136	O	SER	L	50	187.211	90.643	8.570	1.00	50.15	LS12
ATOM	45137	N	ALA	L	51	187.406	88.601	7.617	1.00	61.75	LS12
ATOM	45138	CA	ALA	L	51	187.288	87.833	8.863	1.00	61.75	LS12
ATOM	45139	CB	ALA	L	51	186.179	88.387	9.743	1.00	58.66	LS12
ATOM	45140	C	ALA	L	51	186.983	86.395	8.493	1.00	61.75	LS12
ATOM	45141	O	ALA	L	51	187.032	86.042	7.321	1.00	61.75	LS12
ATOM	45142	N	LEU	L	52	186.667	85.556	9.470	1.00	57.31	LS12
ATOM	45143	CA	LEU	L	52	186.371	84.166	9.151	1.00	57.31	LS12
ATOM	45144	CB	LEU	L	52	187.369	83.237	9.843	1.00	73.86	LS12
ATOM	45145	CG	LEU	L	52	188.861	83.388	9.531	1.00	73.86	LS12
ATOM	45146	CD1	LEU	L	52	189.621	82.273	10.237	1.00	73.86	LS12
ATOM	45147	CD2	LEU	L	52	189.109	83.326	8.030	1.00	73.86	LS12
ATOM	45148	C	LEU	L	52	184.960	83.778	9.556	1.00	57.31	LS12
ATOM	45149	O	LEU	L	52	184.703	83.454	10.718	1.00	57.31	LS12
ATOM	45150	N	ARG	L	53	184.034	83.802	8.606	1.00	63.86	LS12
ATOM	45151	CA	ARG	L	53	182.660	83.443	8.935	1.00	63.86	LS12
ATOM	45152	CB	ARG	L	53	181.693	84.013	7.886	1.00	58.34	LS12
ATOM	45153	CG	ARG	L	53	181.388	85.510	8.068	1.00	58.34	LS12
ATOM	45154	CD	ARG	L	53	182.667	86.339	8.019	1.00	58.34	LS12
ATOM	45155	NE	ARG	L	53	182.610	87.584	8.798	1.00	58.34	LS12
ATOM	45156	CZ	ARG	L	53	181.956	88.683	8.437	1.00	58.34	LS12
ATOM	45157	NH1	ARG	L	53	181.275	88.713	7.293	1.00	58.34	LS12
ATOM	45158	NH2	ARG	L	53	182.013	89.759	9.214	1.00	58.34	LS12
ATOM	45159	C	ARG	L	53	182.488	81.932	9.067	1.00	63.86	LS12
ATOM	45160	O	ARG	L	53	183.068	81.160	8.303	1.00	63.86	LS12
ATOM	45161	N	LYS	L	54	181.705	81.519	10.058	1.00	52.56	LS12
ATOM	45162	CA	LYS	L	54	181.453	80.102	10.298	1.00	52.56	LS12
ATOM	45163	CB	LYS	L	54	181.269	79.830	11.799	1.00	65.91	LS12
ATOM	45164	CG	LYS	L	54	182.552	79.925	12.652	1.00	65.91	LS12
ATOM	45165	CD	LYS	L	54	183.167	81.322	12.642	1.00	65.91	LS12
ATOM	45166	CE	LYS	L	54	184.421	81.362	13.494	1.00	65.91	LS12
ATOM	45167	NZ	LYS	L	54	185.158	82.651	13.334	1.00	65.91	LS12
ATOM	45168	C	LYS	L	54	180.224	79.631	9.521	1.00	52.56	LS12
ATOM	45169	O	LYS	L	54	179.078	79.831	9.927	1.00	52.56	LS12
ATOM	45170	N	VAL	L	55	180.492	78.976	8.403	1.00	55.87	LS12
ATOM	45171	CA	VAL	L	55	179.466	78.483	7.507	1.00	55.87	LS12
ATOM	45172	CB	VAL	L	55	179.955	78.738	6.086	1.00	49.55	LS12
ATOM	45173	CG1	VAL	L	55	178.947	78.283	5.081	1.00	49.55	LS12
ATOM	45174	CG2	VAL	L	55	180.237	80.218	5.926	1.00	49.55	LS12
ATOM	45175	C	VAL	L	55	179.134	76.998	7.725	1.00	55.87	LS12
ATOM	45176	O	VAL	L	55	179.659	76.372	8.640	1.00	55.87	LS12
ATOM	45177	N	ALA	L	56	178.257	76.445	6.888	1.00	53.24	LS12
ATOM	45178	CA	ALA	L	56	177.862	75.041	6.986	1.00	53.24	LS12
ATOM	45179	CB	ALA	L	56	177.041	74.824	8.230	1.00	28.42	LS12
ATOM	45180	C	ALA	L	56	177.053	74.567	5.794	1.00	53.24	LS12



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ATOM	45181	O	ALA	L	56	176.007	75.133	5.502	1.00	53.24	LS12
ATOM	45182	N	LYS	L	57	177.527	73.536	5.102	1.00	59.35	LS12
ATOM	45183	CA	LYS	L	57	176.770	72.985	3.985	1.00	59.35	LS12
ATOM	45184	CB	LYS	L	57	177.600	71.978	3.182	1.00	90.14	LS12
ATOM	45185	CG	LYS	L	57	178.843	72.527	2.512	1.00	90.14	LS12
ATOM	45186	CD	LYS	L	57	178.519	73.433	1.334	1.00	90.14	LS12
ATOM	45187	CE	LYS	L	57	179.805	73.945	0.684	1.00	90.14	LS12
ATOM	45188	NZ	LYS	L	57	179.579	75.044	-0.300	1.00	90.14	LS12
ATOM	45189	C	LYS	L	57	175.660	72.232	4.707	1.00	59.35	LS12
ATOM	45190	O	LYS	L	57	175.891	71.679	5.783	1.00	59.35	LS12
ATOM	45191	N	VAL	L	58	174.459	72.211	4.142	1.00	55.68	LS12
ATOM	45192	CA	VAL	L	58	173.362	71.496	4.781	1.00	55.68	LS12
ATOM	45193	CB	VAL	L	58	172.460	72.451	5.599	1.00	52.50	LS12
ATOM	45194	CG1	VAL	L	58	171.378	71.655	6.311	1.00	52.50	LS12
ATOM	45195	CG2	VAL	L	58	173.284	73.228	6.604	1.00	52.50	LS12
ATOM	45196	C	VAL	L	58	172.489	70.772	3.764	1.00	55.68	LS12
ATOM	45197	O	VAL	L	58	172.103	71.349	2.741	1.00	55.68	LS12
ATOM	45198	N	ARG	L	59	172.197	69.504	4.049	1.00	52.25	LS12
ATOM	45199	CA	ARG	L	59	171.343	68.672	3.203	1.00	52.25	LS12
ATOM	45200	CB	ARG	L	59	171.749	67.201	3.341	1.00	110.12	LS12
ATOM	45201	CG	ARG	L	59	171.048	66.221	2.406	1.00	110.12	LS12
ATOM	45202	CD	ARG	L	59	171.765	66.148	1.071	1.00	110.12	LS12
ATOM	45203	NE	ARG	L	59	173.213	66.066	1.256	1.00	110.12	LS12
ATOM	45204	CZ	ARG	L	59	174.104	66.021	0.267	1.00	110.12	LS12
ATOM	45205	NH1	ARG	L	59	173.704	66.040	-0.998	1.00	110.12	LS12
ATOM	45206	NH2	ARG	L	59	175.402	65.981	0.542	1.00	110.12	LS12
ATOM	45207	C	ARG	L	59	169.961	68.868	3.811	1.00	52.25	LS12
ATOM	45208	O	ARG	L	59	169.699	68.357	4.899	1.00	52.25	LS12
ATOM	45209	N	LEU	L	60	169.086	69.614	3.142	1.00	67.66	LS12
ATOM	45210	CA	LEU	L	60	167.747	69.853	3.683	1.00	67.66	LS12
ATOM	45211	CB	LEU	L	60	167.089	71.079	3.028	1.00	43.69	LS12
ATOM	45212	CG	LEU	L	60	167.662	72.493	3.190	1.00	43.69	LS12
ATOM	45213	CD1	LEU	L	60	168.163	72.709	4.607	1.00	43.69	LS12
ATOM	45214	CD2	LEU	L	60	168.786	72.692	2.206	1.00	43.69	LS12
ATOM	45215	C	LEU	L	60	166.813	68.659	3.514	1.00	67.66	LS12
ATOM	45216	O	LEU	L	60	167.052	67.771	2.686	1.00	67.66	LS12
ATOM	45217	N	THR	L	61	165.749	68.646	4.313	1.00	81.49	LS12
ATOM	45218	CA	THR	L	61	164.753	67.583	4.248	1.00	81.49	LS12
ATOM	45219	CB	THR	L	61	163.717	67.698	5.390	1.00	96.30	LS12
ATOM	45220	OG1	THR	L	61	163.092	68.986	5.340	1.00	96.30	LS12
ATOM	45221	CG2	THR	L	61	164.381	67.518	6.742	1.00	96.30	LS12
ATOM	45222	C	THR	L	61	164.022	67.735	2.924	1.00	81.49	LS12
ATOM	45223	O	THR	L	61	163.314	66.830	2.484	1.00	81.49	LS12
ATOM	45224	N	SER	L	62	164.202	68.900	2.305	1.00	63.01	LS12
ATOM	45225	CA	SER	L	62	163.586	69.218	1.023	1.00	63.01	LS12
ATOM	45226	CB	SER	L	62	163.343	70.732	0.907	1.00	44.37	LS12
ATOM	45227	OG	SER	L	62	164.555	71.482	0.888	1.00	44.37	LS12
ATOM	45228	C	SER	L	62	164.480	68.752	-0.126	1.00	63.01	LS12
ATOM	45229	O	SER	L	62	164.330	69.196	-1.264	1.00	63.01	LS12
ATOM	45230	N	GLY	L	63	165.412	67.854	0.179	1.00	90.03	LS12
ATOM	45231	CA	GLY	L	63	166.303	67.350	-0.846	1.00	90.03	LS12
ATOM	45232	C	GLY	L	63	167.176	68.437	-1.441	1.00	90.03	LS12
ATOM	45233	O	GLY	L	63	167.627	68.323	-2.581	1.00	90.03	LS12
ATOM	45234	N	TYR	L	64	167.406	69.503	-0.680	1.00	76.25	LS12
ATOM	45235	CA	TYR	L	64	168.253	70.598	-1.137	1.00	76.25	LS12
ATOM	45236	CB	TYR	L	64	167.539	71.944	-0.978	1.00	94.73	LS12
ATOM	45237	CG	TYR	L	64	166.656	72.315	-2.155	1.00	94.73	LS12
ATOM	45238	CD1	TYR	L	64	165.594	71.499	-2.543	1.00	94.73	LS12
ATOM	45239	CE1	TYR	L	64	164.779	71.839	-3.625	1.00	94.73	LS12
ATOM	45240	CD2	TYR	L	64	166.883	73.485	-2.883	1.00	94.73	LS12
ATOM	45241	CE2	TYR	L	64	166.075	73.834	-3.966	1.00	94.73	LS12
ATOM	45242	CZ	TYR	L	64	165.026	73.007	-4.328	1.00	94.73	LS12
ATOM	45243	OH	TYR	L	64	164.216	73.350	-5.384	1.00	94.73	LS12
ATOM	45244	C	TYR	L	64	169.546	70.597	-0.336	1.00	76.25	LS12
ATOM	45245	O	TYR	L	64	169.567	70.196	0.827	1.00	76.25	LS12
ATOM	45246	N	GLU	L	65	170.627	71.029	-0.973	1.00	57.73	LS12
ATOM	45247	CA	GLU	L	65	171.939	71.081	-0.336	1.00	57.73	LS12
ATOM	45248	CB	GLU	L	65	172.954	70.267	-1.142	1.00	148.64	LS12
ATOM	45249	CG	GLU	L	65	172.575	68.799	-1.366	1.00	148.64	LS12
ATOM	45250	CD	GLU	L	65	171.282	68.608	-2.160	1.00	148.64	LS12
ATOM	45251	OE1	GLU	L	65	171.156	69.176	-3.269	1.00	148.64	LS12
ATOM	45252	OE2	GLU	L	65	170.393	67.877	-1.675	1.00	148.64	LS12
ATOM	45253	C	GLU	L	65	172.321	72.546	-0.353	1.00	57.73	LS12
ATOM	45254	O	GLU	L	65	172.655	73.101	-1.404	1.00	57.73	LS12
ATOM	45255	N	VAL	L	66	172.268	73.187	0.806	1.00	52.16	LS12
ATOM	45256	CA	VAL	L	66	172.580	74.603	0.845	1.00	52.16	LS12
ATOM	45257	CB	VAL	L	66	171.287	75.430	1.014	1.00	47.55	LS12



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ATOM	45258	CG1	VAL	L	66	170.199	74.884	0.091	1.00	47.55	LS12
ATOM	45259	CG2	VAL	L	66	170.829	75.401	2.463	1.00	47.55	LS12
ATOM	45260	C	VAL	L	66	173.568	75.023	1.920	1.00	52.16	LS12
ATOM	45261	O	VAL	L	66	173.770	74.325	2.914	1.00	52.16	LS12
ATOM	45262	N	THR	L	67	174.175	76.182	1.692	1.00	56.25	LS12
ATOM	45263	CA	THR	L	67	175.141	76.775	2.603	1.00	56.25	LS12
ATOM	45264	CB	THR	L	67	176.176	77.593	1.829	1.00	67.39	LS12
ATOM	45265	OG1	THR	L	67	177.074	76.708	1.151	1.00	67.39	LS12
ATOM	45266	CG2	THR	L	67	176.940	78.501	2.757	1.00	67.39	LS12
ATOM	45267	C	THR	L	67	174.383	77.710	3.530	1.00	56.25	LS12
ATOM	45268	O	THR	L	67	173.676	78.610	3.065	1.00	56.25	LS12
ATOM	45269	N	ALA	L	68	174.533	77.503	4.834	1.00	61.27	LS12
ATOM	45270	CA	ALA	L	68	173.841	78.328	5.820	1.00	61.27	LS12
ATOM	45271	CB	ALA	L	68	172.825	77.483	6.582	1.00	35.24	LS12
ATOM	45272	C	ALA	L	68	174.807	78.968	6.799	1.00	61.27	LS12
ATOM	45273	O	ALA	L	68	175.795	78.354	7.192	1.00	61.27	LS12
ATOM	45274	N	TYR	L	69	174.515	80.203	7.196	1.00	54.22	LS12
ATOM	45275	CA	TYR	L	69	175.360	80.911	8.148	1.00	54.22	LS12
ATOM	45276	CB	TYR	L	69	175.101	82.400	8.092	1.00	57.74	LS12
ATOM	45277	CG	TYR	L	69	176.066	83.175	8.939	1.00	57.74	LS12
ATOM	45278	CD1	TYR	L	69	177.288	83.590	8.417	1.00	57.74	LS12
ATOM	45279	CE1	TYR	L	69	178.190	84.329	9.176	1.00	57.74	LS12
ATOM	45280	CD2	TYR	L	69	175.765	83.509	10.259	1.00	57.74	LS12
ATOM	45281	CE2	TYR	L	69	176.664	84.252	11.037	1.00	57.74	LS12
ATOM	45282	CZ	TYR	L	69	177.873	84.662	10.479	1.00	57.74	LS12
ATOM	45283	OH	TYR	L	69	178.752	85.447	11.186	1.00	57.74	LS12
ATOM	45284	C	TYR	L	69	175.114	80.447	9.584	1.00	54.22	LS12
ATOM	45285	O	TYR	L	69	174.041	79.924	9.918	1.00	54.22	LS12
ATOM	45286	N	ILE	L	70	176.113	80.659	10.435	1.00	52.33	LS12
ATOM	45287	CA	ILE	L	70	176.012	80.266	11.834	1.00	52.33	LS12
ATOM	45288	CB	ILE	L	70	177.073	79.193	12.203	1.00	45.91	LS12
ATOM	45289	CG2	ILE	L	70	176.812	78.682	13.613	1.00	45.91	LS12
ATOM	45290	CG1	ILE	L	70	177.025	78.026	11.204	1.00	45.91	LS12
ATOM	45291	CD1	ILE	L	70	178.196	77.063	11.319	1.00	45.91	LS12
ATOM	45292	C	ILE	L	70	176.206	81.487	12.731	1.00	52.33	LS12
ATOM	45293	O	ILE	L	70	177.325	81.822	13.127	1.00	52.33	LS12
ATOM	45294	N	PRO	L	71	175.110	82.175	13.058	1.00	63.13	LS12
ATOM	45295	CD	PRO	L	71	173.712	81.817	12.769	1.00	46.39	LS12
ATOM	45296	CA	PRO	L	71	175.179	83.361	13.913	1.00	63.13	LS12
ATOM	45297	CB	PRO	L	71	173.736	83.841	13.939	1.00	46.39	LS12
ATOM	45298	CG	PRO	L	71	172.967	82.547	13.860	1.00	46.39	LS12
ATOM	45299	C	PRO	L	71	175.685	83.006	15.304	1.00	63.13	LS12
ATOM	45300	O	PRO	L	71	175.721	81.836	15.682	1.00	63.13	LS12
ATOM	45301	N	GLY	L	72	176.084	84.020	16.059	1.00	78.13	LS12
ATOM	45302	CA	GLY	L	72	176.561	83.771	17.402	1.00	78.13	LS12
ATOM	45303	C	GLY	L	72	178.068	83.748	17.564	1.00	78.13	LS12
ATOM	45304	O	GLY	L	72	178.796	83.423	16.624	1.00	78.13	LS12
ATOM	45305	N	GLU	L	73	178.523	84.090	18.770	1.00	91.77	LS12
ATOM	45306	CA	GLU	L	73	179.940	84.122	19.109	1.00	91.77	LS12
ATOM	45307	CB	GLU	L	73	180.114	84.444	20.596	1.00	108.85	LS12
ATOM	45308	CG	GLU	L	73	179.955	85.932	20.938	1.00	108.85	LS12
ATOM	45309	CD	GLU	L	73	181.060	86.806	20.333	1.00	108.85	LS12
ATOM	45310	OE1	GLU	L	73	181.081	88.031	20.598	1.00	108.85	LS12
ATOM	45311	OE2	GLU	L	73	181.911	86.266	19.592	1.00	108.85	LS12
ATOM	45312	C	GLU	L	73	180.639	82.814	18.766	1.00	91.77	LS12
ATOM	45313	O	GLU	L	73	181.549	82.799	17.938	1.00	91.77	LS12
ATOM	45314	N	GLY	L	74	180.220	81.719	19.395	1.00	64.00	LS12
ATOM	45315	CA	GLY	L	74	180.835	80.431	19.105	1.00	64.00	LS12
ATOM	45316	C	GLY	L	74	179.778	79.362	18.943	1.00	64.00	LS12
ATOM	45317	O	GLY	L	74	178.672	79.533	19.447	1.00	64.00	LS12
ATOM	45318	N	HIS	L	75	180.094	78.265	18.257	1.00	55.84	LS12
ATOM	45319	CA	HIS	L	75	179.105	77.198	18.062	1.00	55.84	LS12
ATOM	45320	CB	HIS	L	75	178.552	77.225	16.638	1.00	72.73	LS12
ATOM	45321	CG	HIS	L	75	179.499	76.690	15.611	1.00	72.73	LS12
ATOM	45322	CD2	HIS	L	75	179.605	75.460	15.055	1.00	72.73	LS12
ATOM	45323	ND1	HIS	L	75	180.500	77.454	15.048	1.00	72.73	LS12
ATOM	45324	CE1	HIS	L	75	181.179	76.718	14.187	1.00	72.73	LS12
ATOM	45325	NE2	HIS	L	75	180.656	75.505	14.173	1.00	72.73	LS12
ATOM	45326	C	HIS	L	75	179.630	75.796	18.348	1.00	55.84	LS12
ATOM	45327	O	HIS	L	75	180.811	75.610	18.630	1.00	55.84	LS12
ATOM	45328	N	ASN	L	76	178.742	74.812	18.238	1.00	49.79	LS12
ATOM	45329	CA	ASN	L	76	179.069	73.410	18.513	1.00	49.79	LS12
ATOM	45330	CB	ASN	L	76	178.294	72.945	19.737	1.00	55.13	LS12
ATOM	45331	CG	ASN	L	76	176.796	72.866	19.462	1.00	55.13	LS12
ATOM	45332	OD1	ASN	L	76	176.170	73.861	19.084	1.00	55.13	LS12
ATOM	45333	ND2	ASN	L	76	176.219	71.683	19.636	1.00	55.13	LS12
ATOM	45334	C	ASN	L	76	178.673	72.489	17.362	1.00	49.79	LS12



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ATOM	45335	O	ASN	L	76	178.490	71.296	17.566	1.00	49.79	LS12
ATOM	45336	N	LEU	L	77	178.521	73.023	16.162	1.00	58.46	LS12
ATOM	45337	CA	LEU	L	77	178.107	72.182	15.052	1.00	58.46	LS12
ATOM	45338	CB	LEU	L	77	177.496	73.049	13.962	1.00	49.20	LS12
ATOM	45339	CG	LEU	L	77	176.344	73.926	14.438	1.00	49.20	LS12
ATOM	45340	CD1	LEU	L	77	175.946	74.897	13.324	1.00	49.20	LS12
ATOM	45341	CD2	LEU	L	77	175.182	73.041	14.855	1.00	49.20	LS12
ATOM	45342	C	LEU	L	77	179.237	71.342	14.471	1.00	58.46	LS12
ATOM	45343	O	LEU	L	77	180.343	71.840	14.247	1.00	58.46	LS12
ATOM	45344	N	GLN	L	78	178.935	70.067	14.223	1.00	76.62	LS12
ATOM	45345	CA	GLN	L	78	179.885	69.106	13.655	1.00	76.62	LS12
ATOM	45346	CB	GLN	L	78	180.121	67.954	14.621	1.00	100.44	LS12
ATOM	45347	CG	GLN	L	78	181.114	68.233	15.708	1.00	100.44	LS12
ATOM	45348	CD	GLN	L	78	180.968	67.248	16.836	1.00	100.44	LS12
ATOM	45349	OE1	GLN	L	78	180.686	66.067	16.606	1.00	100.44	LS12
ATOM	45350	NE2	GLN	L	78	181.159	67.719	18.067	1.00	100.44	LS12
ATOM	45351	C	GLN	L	78	179.398	68.516	12.339	1.00	76.62	LS12
ATOM	45352	O	GLN	L	78	178.424	68.975	11.758	1.00	76.62	LS12
ATOM	45353	N	GLU	L	79	180.061	67.465	11.887	1.00	92.69	LS12
ATOM	45354	CA	GLU	L	79	179.682	66.859	10.633	1.00	92.69	LS12
ATOM	45355	CB	GLU	L	79	180.569	65.660	10.331	1.00	101.74	LS12
ATOM	45356	CG	GLU	L	79	181.617	65.964	9.291	1.00	101.74	LS12
ATOM	45357	CD	GLU	L	79	181.717	64.873	8.256	1.00	101.74	LS12
ATOM	45358	OE1	GLU	L	79	180.690	64.570	7.613	1.00	101.74	LS12
ATOM	45359	OE2	GLU	L	79	182.821	64.318	8.087	1.00	101.74	LS12
ATOM	45360	C	GLU	L	79	178.229	66.452	10.487	1.00	92.69	LS12
ATOM	45361	O	GLU	L	79	177.524	67.012	9.656	1.00	92.69	LS12
ATOM	45362	N	HIS	L	80	177.760	65.506	11.293	1.00	60.99	LS12
ATOM	45363	CA	HIS	L	80	176.382	65.028	11.132	1.00	60.99	LS12
ATOM	45364	CB	HIS	L	80	176.360	63.514	11.250	1.00	95.21	LS12
ATOM	45365	CG	HIS	L	80	177.451	62.854	10.481	1.00	95.21	LS12
ATOM	45366	CD2	HIS	L	80	178.402	61.969	10.859	1.00	95.21	LS12
ATOM	45367	ND1	HIS	L	80	177.684	63.126	9.150	1.00	95.21	LS12
ATOM	45368	CE1	HIS	L	80	178.735	62.438	8.741	1.00	95.21	LS12
ATOM	45369	NE2	HIS	L	80	179.189	61.728	9.759	1.00	95.21	LS12
ATOM	45370	C	HIS	L	80	175.312	65.600	12.032	1.00	60.99	LS12
ATOM	45371	O	HIS	L	80	174.276	64.963	12.245	1.00	60.99	LS12
ATOM	45372	N	SER	L	81	175.539	66.801	12.548	1.00	73.56	LS12
ATOM	45373	CA	SER	L	81	174.558	67.406	13.432	1.00	73.56	LS12
ATOM	45374	CB	SER	L	81	175.197	68.552	14.229	1.00	93.78	LS12
ATOM	45375	OG	SER	L	81	176.061	69.330	13.425	1.00	93.78	LS12
ATOM	45376	C	SER	L	81	173.319	67.886	12.689	1.00	73.56	LS12
ATOM	45377	O	SER	L	81	173.399	68.371	11.558	1.00	73.56	LS12
ATOM	45378	N	VAL	L	82	172.168	67.709	13.332	1.00	46.23	LS12
ATOM	45379	CA	VAL	L	82	170.886	68.123	12.776	1.00	46.23	LS12
ATOM	45380	CB	VAL	L	82	169.722	67.314	13.369	1.00	39.71	LS12
ATOM	45381	CG1	VAL	L	82	168.400	67.968	13.019	1.00	39.71	LS12
ATOM	45382	CG2	VAL	L	82	169.746	65.907	12.820	1.00	39.71	LS12
ATOM	45383	C	VAL	L	82	170.680	69.584	13.112	1.00	46.23	LS12
ATOM	45384	O	VAL	L	82	170.986	70.029	14.218	1.00	46.23	LS12
ATOM	45385	N	VAL	L	83	170.138	70.335	12.167	1.00	65.82	LS12
ATOM	45386	CA	VAL	L	83	169.954	71.743	12.422	1.00	65.82	LS12
ATOM	45387	CB	VAL	L	83	171.207	72.499	11.923	1.00	38.56	LS12
ATOM	45388	CG1	VAL	L	83	171.267	72.475	10.413	1.00	38.56	LS12
ATOM	45389	CG2	VAL	L	83	171.215	73.900	12.459	1.00	38.56	LS12
ATOM	45390	C	VAL	L	83	168.680	72.304	11.786	1.00	65.82	LS12
ATOM	45391	O	VAL	L	83	167.987	71.601	11.045	1.00	65.82	LS12
ATOM	45392	N	LEU	L	84	168.362	73.558	12.115	1.00	53.25	LS12
ATOM	45393	CA	LEU	L	84	167.197	74.250	11.561	1.00	53.25	LS12
ATOM	45394	CB	LEU	L	84	166.225	74.658	12.669	1.00	48.33	LS12
ATOM	45395	CG	LEU	L	84	164.890	75.234	12.178	1.00	48.33	LS12
ATOM	45396	CD1	LEU	L	84	164.209	74.228	11.254	1.00	48.33	LS12
ATOM	45397	CD2	LEU	L	84	163.988	75.564	13.357	1.00	48.33	LS12
ATOM	45398	C	LEU	L	84	167.657	75.493	10.789	1.00	53.25	LS12
ATOM	45399	O	LEU	L	84	168.397	76.333	11.299	1.00	53.25	LS12
ATOM	45400	N	ILE	L	85	167.219	75.595	9.545	1.00	50.15	LS12
ATOM	45401	CA	ILE	L	85	167.587	76.705	8.681	1.00	50.15	LS12
ATOM	45402	CB	ILE	L	85	168.005	76.147	7.322	1.00	47.46	LS12
ATOM	45403	CG2	ILE	L	85	167.681	77.102	6.201	1.00	47.46	LS12
ATOM	45404	CG1	ILE	L	85	169.486	75.814	7.403	1.00	47.46	LS12
ATOM	45405	CD1	ILE	L	85	169.986	75.052	6.234	1.00	47.46	LS12
ATOM	45406	C	ILE	L	85	166.425	77.678	8.575	1.00	50.15	LS12
ATOM	45407	O	ILE	L	85	165.274	77.252	8.452	1.00	50.15	LS12
ATOM	45408	N	ARG	L	86	166.709	78.978	8.608	1.00	57.27	LS12
ATOM	45409	CA	ARG	L	86	165.614	79.932	8.587	1.00	57.27	LS12
ATOM	45410	CB	ARG	L	86	165.504	80.627	9.936	1.00	41.05	LS12
ATOM	45411	CG	ARG	L	86	166.501	81.728	10.139	1.00	41.05	LS12



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ATOM	45412	CD	ARG	L	86	166.067	82.570	11.315	1.00	41.05	LS12
ATOM	45413	NE	ARG	L	86	167.133	83.430	11.813	1.00	41.05	LS12
ATOM	45414	CZ	ARG	L	86	167.823	84.265	11.050	1.00	41.05	LS12
ATOM	45415	NH1	ARG	L	86	167.556	84.352	9.747	1.00	41.05	LS12
ATOM	45416	NH2	ARG	L	86	168.782	85.007	11.590	1.00	41.05	LS12
ATOM	45417	C	ARG	L	86	165.536	81.007	7.536	1.00	57.27	LS12
ATOM	45418	O	ARG	L	86	164.681	81.884	7.635	1.00	57.27	LS12
ATOM	45419	N	GLY	L	87	166.389	80.986	6.531	1.00	40.84	LS12
ATOM	45420	CA	GLY	L	87	166.264	82.053	5.547	1.00	40.84	LS12
ATOM	45421	C	GLY	L	87	166.779	83.377	6.089	1.00	40.84	LS12
ATOM	45422	O	GLY	L	87	166.526	83.746	7.243	1.00	40.84	LS12
ATOM	45423	N	GLY	L	88	167.499	84.103	5.245	1.00	39.22	LS12
ATOM	45424	CA	GLY	L	88	168.099	85.356	5.654	1.00	39.22	LS12
ATOM	45425	C	GLY	L	88	169.514	85.211	5.139	1.00	39.22	LS12
ATOM	45426	O	GLY	L	88	170.263	84.335	5.583	1.00	39.22	LS12
ATOM	45427	N	ARG	L	89	169.875	86.048	4.176	1.00	52.36	LS12
ATOM	45428	CA	ARG	L	89	171.191	85.977	3.572	1.00	52.36	LS12
ATOM	45429	CB	ARG	L	89	171.125	86.558	2.156	1.00	87.49	LS12
ATOM	45430	CG	ARG	L	89	170.036	85.900	1.309	1.00	87.49	LS12
ATOM	45431	CD	ARG	L	89	170.122	86.272	-0.172	1.00	87.49	LS12
ATOM	45432	NE	ARG	L	89	169.269	85.410	-1.003	1.00	87.49	LS12
ATOM	45433	CZ	ARG	L	89	169.347	85.312	-2.332	1.00	87.49	LS12
ATOM	45434	NH1	ARG	L	89	170.241	86.020	-3.011	1.00	87.49	LS12
ATOM	45435	NH2	ARG	L	89	168.531	84.494	-2.986	1.00	87.49	LS12
ATOM	45436	C	ARG	L	89	172.255	86.685	4.399	1.00	52.36	LS12
ATOM	45437	O	ARG	L	89	171.981	87.198	5.487	1.00	52.36	LS12
ATOM	45438	N	VAL	L	90	173.477	86.673	3.877	1.00	63.24	LS12
ATOM	45439	CA	VAL	L	90	174.619	87.323	4.507	1.00	63.24	LS12
ATOM	45440	CB	VAL	L	90	175.634	86.319	4.998	1.00	47.83	LS12
ATOM	45441	CG1	VAL	L	90	176.813	87.054	5.615	1.00	47.83	LS12
ATOM	45442	CG2	VAL	L	90	174.979	85.378	5.985	1.00	47.83	LS12
ATOM	45443	C	VAL	L	90	175.280	88.136	3.418	1.00	63.24	LS12
ATOM	45444	O	VAL	L	90	175.816	87.572	2.463	1.00	63.24	LS12
ATOM	45445	N	LYS	L	91	175.254	89.455	3.561	1.00	60.09	LS12
ATOM	45446	CA	LYS	L	91	175.820	90.323	2.543	1.00	60.09	LS12
ATOM	45447	CB	LYS	L	91	175.784	91.777	3.009	1.00	93.99	LS12
ATOM	45448	CG	LYS	L	91	176.099	92.776	1.916	1.00	93.99	LS12
ATOM	45449	CD	LYS	L	91	175.113	92.660	0.776	1.00	93.99	LS12
ATOM	45450	CE	LYS	L	91	175.384	93.715	-0.288	1.00	93.99	LS12
ATOM	45451	NZ	LYS	L	91	174.360	93.695	-1.385	1.00	93.99	LS12
ATOM	45452	C	LYS	L	91	177.234	89.957	2.115	1.00	60.09	LS12
ATOM	45453	O	LYS	L	91	177.536	90.018	0.928	1.00	60.09	LS12
ATOM	45454	N	ASP	L	92	178.085	89.555	3.062	1.00	73.86	LS12
ATOM	45455	CA	ASP	L	92	179.486	89.213	2.778	1.00	73.86	LS12
ATOM	45456	CB	ASP	L	92	180.294	89.253	4.054	1.00	69.44	LS12
ATOM	45457	CG	ASP	L	92	180.425	90.632	4.571	1.00	69.44	LS12
ATOM	45458	OD1	ASP	L	92	180.126	91.558	3.776	1.00	69.44	LS12
ATOM	45459	OD2	ASP	L	92	180.825	90.793	5.744	1.00	69.44	LS12
ATOM	45460	C	ASP	L	92	179.834	87.925	2.080	1.00	73.86	LS12
ATOM	45461	O	ASP	L	92	180.716	87.907	1.227	1.00	73.86	LS12
ATOM	45462	N	LEU	L	93	179.167	86.844	2.458	1.00	70.53	LS12
ATOM	45463	CA	LEU	L	93	179.445	85.542	1.877	1.00	70.53	LS12
ATOM	45464	CB	LEU	L	93	179.180	84.469	2.909	1.00	58.16	LS12
ATOM	45465	CG	LEU	L	93	179.930	84.773	4.194	1.00	58.16	LS12
ATOM	45466	CD1	LEU	L	93	179.439	83.835	5.282	1.00	58.16	LS12
ATOM	45467	CD2	LEU	L	93	181.438	84.648	3.952	1.00	58.16	LS12
ATOM	45468	C	LEU	L	93	178.657	85.231	0.627	1.00	70.53	LS12
ATOM	45469	O	LEU	L	93	177.465	84.918	0.686	1.00	70.53	LS12
ATOM	45470	N	PRO	L	94	179.319	85.293	-0.531	1.00	74.51	LS12
ATOM	45471	CD	PRO	L	94	180.753	85.478	-0.793	1.00	101.85	LS12
ATOM	45472	CA	PRO	L	94	178.597	84.996	-1.763	1.00	74.51	LS12
ATOM	45473	CB	PRO	L	94	179.683	85.092	-2.834	1.00	101.85	LS12
ATOM	45474	CG	PRO	L	94	180.735	85.959	-2.209	1.00	101.85	LS12
ATOM	45475	C	PRO	L	94	178.075	83.574	-1.632	1.00	74.51	LS12
ATOM	45476	O	PRO	L	94	178.839	82.667	-1.304	1.00	74.51	LS12
ATOM	45477	N	GLY	L	95	176.780	83.380	-1.847	1.00	71.98	LS12
ATOM	45478	CA	GLY	L	95	176.240	82.037	-1.777	1.00	71.98	LS12
ATOM	45479	C	GLY	L	95	175.668	81.529	-0.466	1.00	71.98	LS12
ATOM	45480	O	GLY	L	95	175.534	80.317	-0.275	1.00	71.98	LS12
ATOM	45481	N	VAL	L	96	175.322	82.426	0.446	1.00	89.91	LS12
ATOM	45482	CA	VAL	L	96	174.740	81.986	1.704	1.00	89.91	LS12
ATOM	45483	CB	VAL	L	96	175.629	82.368	2.876	1.00	60.14	LS12
ATOM	45484	CG1	VAL	L	96	175.195	81.613	4.121	1.00	60.14	LS12
ATOM	45485	CG2	VAL	L	96	177.072	82.056	2.532	1.00	60.14	LS12
ATOM	45486	C	VAL	L	96	173.392	82.671	1.828	1.00	89.91	LS12
ATOM	45487	O	VAL	L	96	173.319	83.863	2.133	1.00	89.91	LS12
ATOM	45488	N	ARG	L	97	172.325	81.915	1.590	1.00	58.19	LS12



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ATOM	45489	CA	ARG	L	97	170.985	82.482	1.625	1.00	58.19	LS12
ATOM	45490	CB	ARG	L	97	170.186	81.988	0.421	1.00	74.99	LS12
ATOM	45491	CG	ARG	L	97	170.833	82.282	-0.914	1.00	74.99	LS12
ATOM	45492	CD	ARG	L	97	169.901	81.903	-2.035	1.00	74.99	LS12
ATOM	45493	NE	ARG	L	97	170.460	82.193	-3.349	1.00	74.99	LS12
ATOM	45494	CZ	ARG	L	97	169.802	81.989	-4.485	1.00	74.99	LS12
ATOM	45495	NH1	ARG	L	97	168.568	81.498	-4.455	1.00	74.99	LS12
ATOM	45496	NH2	ARG	L	97	170.368	82.272	-5.651	1.00	74.99	LS12
ATOM	45497	C	ARG	L	97	170.170	82.222	2.873	1.00	58.19	LS12
ATOM	45498	O	ARG	L	97	169.054	82.723	2.992	1.00	58.19	LS12
ATOM	45499	N	TYR	L	98	170.707	81.447	3.804	1.00	41.16	LS12
ATOM	45500	CA	TYR	L	98	169.948	81.139	5.004	1.00	41.16	LS12
ATOM	45501	CB	TYR	L	98	169.300	79.756	4.861	1.00	58.60	LS12
ATOM	45502	CG	TYR	L	98	168.858	79.433	3.447	1.00	58.60	LS12
ATOM	45503	CD1	TYR	L	98	169.795	79.255	2.429	1.00	58.60	LS12
ATOM	45504	CE1	TYR	L	98	169.400	79.003	1.110	1.00	58.60	LS12
ATOM	45505	CD2	TYR	L	98	167.506	79.346	3.116	1.00	58.60	LS12
ATOM	45506	CE2	TYR	L	98	167.095	79.093	1.800	1.00	58.60	LS12
ATOM	45507	CZ	TYR	L	98	168.047	78.921	0.795	1.00	58.60	LS12
ATOM	45508	OH	TYR	L	98	167.655	78.662	-0.516	1.00	58.60	LS12
ATOM	45509	C	TYR	L	98	170.810	81.166	6.254	1.00	41.16	LS12
ATOM	45510	O	TYR	L	98	172.017	80.928	6.201	1.00	41.16	LS12
ATOM	45511	N	HIS	L	99	170.176	81.469	7.379	1.00	46.09	LS12
ATOM	45512	CA	HIS	L	99	170.843	81.498	8.673	1.00	46.09	LS12
ATOM	45513	CB	HIS	L	99	170.346	82.676	9.503	1.00	49.64	LS12
ATOM	45514	CG	HIS	L	99	171.134	83.924	9.309	1.00	49.64	LS12
ATOM	45515	CD2	HIS	L	99	171.783	84.715	10.197	1.00	49.64	LS12
ATOM	45516	ND1	HIS	L	99	171.342	84.485	8.069	1.00	49.64	LS12
ATOM	45517	CE1	HIS	L	99	172.091	85.569	8.199	1.00	49.64	LS12
ATOM	45518	NE2	HIS	L	99	172.372	85.730	9.480	1.00	49.64	LS12
ATOM	45519	C	HIS	L	99	170.454	80.213	9.390	1.00	46.09	LS12
ATOM	45520	O	HIS	L	99	169.419	79.610	9.079	1.00	46.09	LS12
ATOM	45521	N	ILE	L	100	171.276	79.779	10.337	1.00	41.22	LS12
ATOM	45522	CA	ILE	L	100	170.925	78.586	11.087	1.00	41.22	LS12
ATOM	45523	CB	ILE	L	100	172.132	77.691	11.355	1.00	52.33	LS12
ATOM	45524	CG2	ILE	L	100	171.996	77.027	12.717	1.00	52.33	LS12
ATOM	45525	CG1	ILE	L	100	172.239	76.652	10.239	1.00	52.33	LS12
ATOM	45526	CD1	ILE	L	100	173.370	75.650	10.417	1.00	52.33	LS12
ATOM	45527	C	ILE	L	100	170.324	79.023	12.406	1.00	41.22	LS12
ATOM	45528	O	ILE	L	100	170.851	79.896	13.088	1.00	41.22	LS12
ATOM	45529	N	VAL	L	101	169.199	78.426	12.751	1.00	54.02	LS12
ATOM	45530	CA	VAL	L	101	168.532	78.763	13.989	1.00	54.02	LS12
ATOM	45531	CB	VAL	L	101	167.106	78.194	14.013	1.00	49.99	LS12
ATOM	45532	CG1	VAL	L	101	166.425	78.535	15.320	1.00	49.99	LS12
ATOM	45533	CG2	VAL	L	101	166.319	78.749	12.845	1.00	49.99	LS12
ATOM	45534	C	VAL	L	101	169.316	78.181	15.150	1.00	54.02	LS12
ATOM	45535	O	VAL	L	101	169.435	76.957	15.286	1.00	54.02	LS12
ATOM	45536	N	ARG	L	102	169.861	79.059	15.979	1.00	50.63	LS12
ATOM	45537	CA	ARG	L	102	170.615	78.613	17.134	1.00	50.63	LS12
ATOM	45538	CB	ARG	L	102	171.623	79.677	17.541	1.00	57.69	LS12
ATOM	45539	CG	ARG	L	102	172.622	79.933	16.449	1.00	57.69	LS12
ATOM	45540	CD	ARG	L	102	173.991	80.197	17.020	1.00	57.69	LS12
ATOM	45541	NE	ARG	L	102	174.364	79.212	18.029	1.00	57.69	LS12
ATOM	45542	CZ	ARG	L	102	175.569	79.149	18.573	1.00	57.69	LS12
ATOM	45543	NH1	ARG	L	102	176.502	80.009	18.191	1.00	57.69	LS12
ATOM	45544	NH2	ARG	L	102	175.832	78.249	19.510	1.00	57.69	LS12
ATOM	45545	C	ARG	L	102	169.661	78.327	18.278	1.00	50.63	LS12
ATOM	45546	O	ARG	L	102	168.781	79.124	18.571	1.00	50.63	LS12
ATOM	45547	N	GLY	L	103	169.836	77.183	18.920	1.00	64.14	LS12
ATOM	45548	CA	GLY	L	103	168.959	76.839	20.016	1.00	64.14	LS12
ATOM	45549	C	GLY	L	103	167.952	75.794	19.588	1.00	64.14	LS12
ATOM	45550	O	GLY	L	103	167.147	75.330	20.404	1.00	64.14	LS12
ATOM	45551	N	VAL	L	104	167.987	75.425	18.310	1.00	74.22	LS12
ATOM	45552	CA	VAL	L	104	167.075	74.409	17.791	1.00	74.22	LS12
ATOM	45553	CB	VAL	L	104	166.190	74.959	16.642	1.00	60.91	LS12
ATOM	45554	CG1	VAL	L	104	165.571	73.810	15.867	1.00	60.91	LS12
ATOM	45555	CG2	VAL	L	104	165.076	75.825	17.213	1.00	60.91	LS12
ATOM	45556	C	VAL	L	104	167.847	73.201	17.284	1.00	74.22	LS12
ATOM	45557	O	VAL	L	104	168.747	73.335	16.446	1.00	74.22	LS12
ATOM	45558	N	TYR	L	105	167.483	72.027	17.800	1.00	71.28	LS12
ATOM	45559	CA	TYR	L	105	168.124	70.776	17.417	1.00	71.28	LS12
ATOM	45560	CB	TYR	L	105	168.137	70.639	15.900	1.00	52.04	LS12
ATOM	45561	CG	TYR	L	105	166.760	70.490	15.318	1.00	52.04	LS12
ATOM	45562	CD1	TYR	L	105	166.432	71.067	14.083	1.00	52.04	LS12
ATOM	45563	CE1	TYR	L	105	165.160	70.914	13.538	1.00	52.04	LS12
ATOM	45564	CD2	TYR	L	105	165.782	69.758	15.990	1.00	52.04	LS12
ATOM	45565	CE2	TYR	L	105	164.518	69.599	15.457	1.00	52.04	LS12



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ATOM	45566	CZ	TYR	L	105	164.211	70.176	14.237	1.00	52.04	LS12
ATOM	45567	OH	TYR	L	105	162.955	70.015	13.717	1.00	52.04	LS12
ATOM	45568	C	TYR	L	105	169.543	70.659	17.945	1.00	71.28	LS12
ATOM	45569	O	TYR	L	105	169.824	71.037	19.082	1.00	71.28	LS12
ATOM	45570	N	ASP	L	106	170.435	70.140	17.107	1.00	59.68	LS12
ATOM	45571	CA	ASP	L	106	171.827	69.950	17.493	1.00	59.68	LS12
ATOM	45572	CB	ASP	L	106	172.550	69.090	16.451	1.00	80.63	LS12
ATOM	45573	CG	ASP	L	106	172.136	67.630	16.512	1.00	80.63	LS12
ATOM	45574	OD1	ASP	L	106	172.615	66.832	15.675	1.00	80.63	LS12
ATOM	45575	OD2	ASP	L	106	171.334	67.280	17.407	1.00	80.63	LS12
ATOM	45576	C	ASP	L	106	172.593	71.246	17.712	1.00	59.68	LS12
ATOM	45577	O	ASP	L	106	173.643	71.252	18.362	1.00	59.68	LS12
ATOM	45578	N	ALA	L	107	172.074	72.343	17.174	1.00	65.78	LS12
ATOM	45579	CA	ALA	L	107	172.733	73.633	17.331	1.00	65.78	LS12
ATOM	45580	CB	ALA	L	107	172.232	74.609	16.278	1.00	128.53	LS12
ATOM	45581	C	ALA	L	107	172.472	74.189	18.724	1.00	65.78	LS12
ATOM	45582	O	ALA	L	107	171.354	74.591	19.050	1.00	65.78	LS12
ATOM	45583	N	ALA	L	108	173.501	74.193	19.559	1.00	50.31	LS12
ATOM	45584	CA	ALA	L	108	173.352	74.725	20.900	1.00	50.31	LS12
ATOM	45585	CB	ALA	L	108	174.534	74.329	21.750	1.00	71.55	LS12
ATOM	45586	C	ALA	L	108	173.294	76.234	20.760	1.00	50.31	LS12
ATOM	45587	O	ALA	L	108	173.730	76.786	19.744	1.00	50.31	LS12
ATOM	45588	N	GLY	L	109	172.752	76.901	21.772	1.00	53.60	LS12
ATOM	45589	CA	GLY	L	109	172.667	78.349	21.724	1.00	53.60	LS12
ATOM	45590	C	GLY	L	109	173.962	79.008	22.168	1.00	53.60	LS12
ATOM	45591	O	GLY	L	109	174.853	78.352	22.700	1.00	53.60	LS12
ATOM	45592	N	VAL	L	110	174.083	80.309	21.954	1.00	51.82	LS12
ATOM	45593	CA	VAL	L	110	175.300	80.979	22.367	1.00	51.82	LS12
ATOM	45594	CB	VAL	L	110	175.429	82.368	21.746	1.00	39.84	LS12
ATOM	45595	CG1	VAL	L	110	176.858	82.899	21.968	1.00	39.84	LS12
ATOM	45596	CG2	VAL	L	110	175.075	82.295	20.270	1.00	39.84	LS12
ATOM	45597	C	VAL	L	110	175.360	81.119	23.879	1.00	51.82	LS12
ATOM	45598	O	VAL	L	110	174.387	81.507	24.526	1.00	51.82	LS12
ATOM	45599	N	LYS	L	111	176.525	80.803	24.430	1.00	89.50	LS12
ATOM	45600	CA	LYS	L	111	176.748	80.874	25.863	1.00	89.50	LS12
ATOM	45601	CB	LYS	L	111	177.792	79.830	26.266	1.00	123.09	LS12
ATOM	45602	CG	LYS	L	111	177.495	78.437	25.713	1.00	123.09	LS12
ATOM	45603	CD	LYS	L	111	178.695	77.508	25.809	1.00	123.09	LS12
ATOM	45604	CE	LYS	L	111	178.463	76.235	25.008	1.00	123.09	LS12
ATOM	45605	NZ	LYS	L	111	179.690	75.395	24.936	1.00	123.09	LS12
ATOM	45606	C	LYS	L	111	177.244	82.265	26.203	1.00	89.50	LS12
ATOM	45607	O	LYS	L	111	177.887	82.916	25.377	1.00	89.50	LS12
ATOM	45608	N	ASP	L	112	176.931	82.717	27.413	1.00	86.09	LS12
ATOM	45609	CA	ASP	L	112	177.352	84.030	27.884	1.00	86.09	LS12
ATOM	45610	CB	ASP	L	112	178.858	84.208	27.664	1.00	122.91	LS12
ATOM	45611	CG	ASP	L	112	179.682	83.201	28.445	1.00	122.91	LS12
ATOM	45612	OD1	ASP	L	112	180.925	83.220	28.315	1.00	122.91	LS12
ATOM	45613	OD2	ASP	L	112	179.088	82.392	29.190	1.00	122.91	LS12
ATOM	45614	C	ASP	L	112	176.596	85.174	27.216	1.00	86.09	LS12
ATOM	45615	O	ASP	L	112	176.888	86.346	27.455	1.00	86.09	LS12
ATOM	45616	N	ARG	L	113	175.633	84.833	26.367	1.00	82.22	LS12
ATOM	45617	CA	ARG	L	113	174.827	85.844	25.689	1.00	82.22	LS12
ATOM	45618	CB	ARG	L	113	173.932	85.199	24.633	1.00	64.92	LS12
ATOM	45619	CG	ARG	L	113	174.222	85.647	23.223	1.00	64.92	LS12
ATOM	45620	CD	ARG	L	113	173.839	87.078	23.020	1.00	64.92	LS12
ATOM	45621	NE	ARG	L	113	174.498	87.624	21.847	1.00	64.92	LS12
ATOM	45622	CZ	ARG	L	113	174.220	88.817	21.347	1.00	64.92	LS12
ATOM	45623	NH1	ARG	L	113	173.288	89.564	21.931	1.00	64.92	LS12
ATOM	45624	NH2	ARG	L	113	174.872	89.264	20.282	1.00	64.92	LS12
ATOM	45625	C	ARG	L	113	173.957	86.447	26.763	1.00	82.22	LS12
ATOM	45626	O	ARG	L	113	173.351	85.723	27.547	1.00	82.22	LS12
ATOM	45627	N	LYS	L	114	173.883	87.764	26.817	1.00	60.26	LS12
ATOM	45628	CA	LYS	L	114	173.059	88.355	27.840	1.00	60.26	LS12
ATOM	45629	CB	LYS	L	114	173.944	88.881	28.969	1.00	94.52	LS12
ATOM	45630	CG	LYS	L	114	174.612	87.742	29.744	1.00	94.52	LS12
ATOM	45631	CD	LYS	L	114	175.717	88.231	30.652	1.00	94.52	LS12
ATOM	45632	CE	LYS	L	114	175.168	89.066	31.790	1.00	94.52	LS12
ATOM	45633	NZ	LYS	L	114	176.232	89.877	32.465	1.00	94.52	LS12
ATOM	45634	C	LYS	L	114	172.148	89.426	27.300	1.00	60.26	LS12
ATOM	45635	O	LYS	L	114	171.401	90.042	28.049	1.00	60.26	LS12
ATOM	45636	N	LYS	L	115	172.171	89.633	25.990	1.00	97.21	LS12
ATOM	45637	CA	LYS	L	115	171.307	90.650	25.430	1.00	97.21	LS12
ATOM	45638	CB	LYS	L	115	172.144	91.765	24.823	1.00	61.48	LS12
ATOM	45639	CG	LYS	L	115	172.890	92.496	25.905	1.00	61.48	LS12
ATOM	45640	CD	LYS	L	115	173.506	93.800	25.462	1.00	61.48	LS12
ATOM	45641	CE	LYS	L	115	174.238	94.422	26.648	1.00	61.48	LS12
ATOM	45642	NZ	LYS	L	115	174.947	95.672	26.292	1.00	61.48	LS12



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ATOM	45643	C	LYS	L	115	170.271	90.172	24.445	1.00	97.21	LS12
ATOM	45644	O	LYS	L	115	169.217	89.684	24.841	1.00	97.21	LS12
ATOM	45645	N	SER	L	116	170.551	90.313	23.162	1.00	48.92	LS12
ATOM	45646	CA	SER	L	116	169.579	89.902	22.164	1.00	48.92	LS12
ATOM	45647	CB	SER	L	116	170.029	90.404	20.790	1.00	67.59	LS12
ATOM	45648	OG	SER	L	116	170.361	91.785	20.839	1.00	67.59	LS12
ATOM	45649	C	SER	L	116	169.422	88.376	22.165	1.00	48.92	LS12
ATOM	45650	O	SER	L	116	169.404	87.744	21.104	1.00	48.92	LS12
ATOM	45651	N	ARG	L	117	169.282	87.807	23.366	1.00	43.44	LS12
ATOM	45652	CA	ARG	L	117	169.163	86.361	23.586	1.00	43.44	LS12
ATOM	45653	CB	ARG	L	117	169.022	86.052	25.077	1.00	53.12	LS12
ATOM	45654	CG	ARG	L	117	169.817	86.943	26.029	1.00	53.12	LS12
ATOM	45655	CD	ARG	L	117	169.826	86.309	27.408	1.00	53.12	LS12
ATOM	45656	NE	ARG	L	117	168.745	85.334	27.498	1.00	53.12	LS12
ATOM	45657	CZ	ARG	L	117	167.555	85.594	28.015	1.00	53.12	LS12
ATOM	45658	NH1	ARG	L	117	167.295	86.797	28.513	1.00	53.12	LS12
ATOM	45659	NH2	ARG	L	117	166.612	84.666	27.988	1.00	53.12	LS12
ATOM	45660	C	ARG	L	117	168.037	85.632	22.864	1.00	43.44	LS12
ATOM	45661	O	ARG	L	117	168.133	84.423	22.663	1.00	43.44	LS12
ATOM	45662	N	SER	L	118	166.965	86.339	22.506	1.00	55.33	LS12
ATOM	45663	CA	SER	L	118	165.837	85.721	21.802	1.00	55.33	LS12
ATOM	45664	CB	SER	L	118	164.802	86.779	21.422	1.00	103.25	LS12
ATOM	45665	OG	SER	L	118	163.669	86.192	20.823	1.00	103.25	LS12
ATOM	45666	C	SER	L	118	166.418	85.073	20.551	1.00	55.33	LS12
ATOM	45667	O	SER	L	118	166.118	83.925	20.230	1.00	55.33	LS12
ATOM	45668	N	LYS	L	119	167.243	85.833	19.840	1.00	60.08	LS12
ATOM	45669	CA	LYS	L	119	167.932	85.333	18.660	1.00	60.08	LS12
ATOM	45670	CB	LYS	L	119	168.333	86.509	17.790	1.00	53.05	LS12
ATOM	45671	CG	LYS	L	119	167.247	87.585	17.747	1.00	53.05	LS12
ATOM	45672	CD	LYS	L	119	167.729	88.856	17.069	1.00	53.05	LS12
ATOM	45673	CE	LYS	L	119	166.646	89.928	17.048	1.00	53.05	LS12
ATOM	45674	NZ	LYS	L	119	167.123	91.198	16.414	1.00	53.05	LS12
ATOM	45675	C	LYS	L	119	169.123	84.764	19.402	1.00	60.08	LS12
ATOM	45676	O	LYS	L	119	169.437	85.273	20.474	1.00	60.08	LS12
ATOM	45677	N	TYR	L	120	169.783	83.730	18.886	1.00	59.46	LS12
ATOM	45678	CA	TYR	L	120	170.915	83.103	19.616	1.00	59.46	LS12
ATOM	45679	CB	TYR	L	120	171.808	84.166	20.298	1.00	47.64	LS12
ATOM	45680	CG	TYR	L	120	172.280	85.238	19.353	1.00	47.64	LS12
ATOM	45681	CD1	TYR	L	120	172.482	86.545	19.786	1.00	47.64	LS12
ATOM	45682	CE1	TYR	L	120	172.850	87.542	18.886	1.00	47.64	LS12
ATOM	45683	CD2	TYR	L	120	172.467	84.948	18.007	1.00	47.64	LS12
ATOM	45684	CE2	TYR	L	120	172.836	85.923	17.102	1.00	47.64	LS12
ATOM	45685	CZ	TYR	L	120	173.025	87.223	17.534	1.00	47.64	LS12
ATOM	45686	OH	TYR	L	120	173.355	88.180	16.586	1.00	47.64	LS12
ATOM	45687	C	TYR	L	120	170.361	82.142	20.687	1.00	59.46	LS12
ATOM	45688	O	TYR	L	120	171.069	81.715	21.588	1.00	59.46	LS12
ATOM	45689	N	GLY	L	121	169.079	81.827	20.562	1.00	75.07	LS12
ATOM	45690	CA	GLY	L	121	168.396	80.931	21.478	1.00	75.07	LS12
ATOM	45691	C	GLY	L	121	169.012	80.562	22.816	1.00	75.07	LS12
ATOM	45692	O	GLY	L	121	169.259	79.386	23.068	1.00	75.07	LS12
ATOM	45693	N	THR	L	122	169.246	81.542	23.684	1.00	66.24	LS12
ATOM	45694	CA	THR	L	122	169.810	81.264	25.006	1.00	66.24	LS12
ATOM	45695	CB	THR	L	122	171.005	82.181	25.310	1.00	57.63	LS12
ATOM	45696	OG1	THR	L	122	170.531	83.487	25.656	1.00	57.63	LS12
ATOM	45697	CG2	THR	L	122	171.898	82.300	24.099	1.00	57.63	LS12
ATOM	45698	C	THR	L	122	168.746	81.500	26.083	1.00	66.24	LS12
ATOM	45699	O	THR	L	122	168.042	82.520	26.060	1.00	66.24	LS12
ATOM	45700	N	LYS	L	123	168.619	80.566	27.024	1.00	57.86	LS12
ATOM	45701	CA	LYS	L	123	167.627	80.715	28.096	1.00	57.86	LS12
ATOM	45702	CB	LYS	L	123	167.571	79.464	28.979	1.00	60.57	LS12
ATOM	45703	CG	LYS	L	123	167.422	78.145	28.245	1.00	60.57	LS12
ATOM	45704	CD	LYS	L	123	165.999	77.853	27.820	1.00	60.57	LS12
ATOM	45705	CE	LYS	L	123	165.940	76.463	27.194	1.00	60.57	LS12
ATOM	45706	NZ	LYS	L	123	164.628	76.135	26.578	1.00	60.57	LS12
ATOM	45707	C	LYS	L	123	168.029	81.899	28.967	1.00	57.86	LS12
ATOM	45708	O	LYS	L	123	169.185	82.339	28.936	1.00	57.86	LS12
ATOM	45709	N	LYS	L	124	167.083	82.409	29.751	1.00	71.34	LS12
ATOM	45710	CA	LYS	L	124	167.387	83.539	30.616	1.00	71.34	LS12
ATOM	45711	CB	LYS	L	124	166.108	84.179	31.163	1.00	84.26	LS12
ATOM	45712	CG	LYS	L	124	166.352	85.568	31.728	1.00	84.26	LS12
ATOM	45713	CD	LYS	L	124	165.076	86.239	32.194	1.00	84.26	LS12
ATOM	45714	CE	LYS	L	124	165.391	87.575	32.865	1.00	84.26	LS12
ATOM	45715	NZ	LYS	L	124	164.183	88.301	33.359	1.00	84.26	LS12
ATOM	45716	C	LYS	L	124	168.274	83.056	31.754	1.00	71.34	LS12
ATOM	45717	O	LYS	L	124	167.960	82.074	32.429	1.00	71.34	LS12
ATOM	45718	N	PRO	L	125	169.399	83.751	31.981	1.00	78.37	LS12
ATOM	45719	CD	PRO	L	125	169.729	85.047	31.357	1.00	63.66	LS12



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ATOM	45720	CA	PRO	L	125	170.373	83.427	33.022	1.00	78.37	LS12
ATOM	45721	CB	PRO	L	125	171.542	84.338	32.680	1.00	63.66	LS12
ATOM	45722	CG	PRO	L	125	170.845	85.578	32.257	1.00	63.66	LS12
ATOM	45723	C	PRO	L	125	169.853	83.670	34.423	1.00	78.37	LS12
ATOM	45724	O	PRO	L	125	169.645	84.813	34.827	1.00	78.37	LS12
ATOM	45725	N	LYS	L	126	169.642	82.579	35.150	1.00130.12		LS12
ATOM	45726	CA	LYS	L	126	169.162	82.625	36.524	1.00130.12		LS12
ATOM	45727	CB	LYS	L	126	169.280	81.236	37.157	1.00158.41		LS12
ATOM	45728	CG	LYS	L	126	170.240	80.298	36.421	1.00158.41		LS12
ATOM	45729	CD	LYS	L	126	171.636	80.899	36.258	1.00158.41		LS12
ATOM	45730	CE	LYS	L	126	172.500	80.043	35.342	1.00158.41		LS12
ATOM	45731	NZ	LYS	L	126	173.836	80.651	35.108	1.00158.41		LS12
ATOM	45732	C	LYS	L	126	169.965	83.627	37.340	1.00130.12		LS12
ATOM	45733	O	LYS	L	126	170.917	83.260	38.025	1.00130.12		LS12
ATOM	45734	N	GLU	L	127	169.579	84.895	37.259	1.00110.10		LS12
ATOM	45735	CA	GLU	L	127	170.270	85.941	37.990	1.00110.10		LS12
ATOM	45736	CB	GLU	L	127	169.618	87.295	37.718	1.00162.85		LS12
ATOM	45737	CG	GLU	L	127	168.168	87.385	38.151	1.00162.85		LS12
ATOM	45738	CD	GLU	L	127	167.527	88.695	37.743	1.00162.85		LS12
ATOM	45739	OE1	GLU	L	127	168.055	89.761	38.124	1.00162.85		LS12
ATOM	45740	OE2	GLU	L	127	166.496	88.657	37.040	1.00162.85		LS12
ATOM	45741	C	GLU	L	127	170.218	85.623	39.474	1.00110.10		LS12
ATOM	45742	O	GLU	L	127	169.171	85.234	40.001	1.00110.10		LS12
ATOM	45743	N	ALA	L	128	171.362	85.776	40.134	1.00168.76		LS12
ATOM	45744	CA	ALA	L	128	171.479	85.515	41.561	1.00168.76		LS12
ATOM	45745	CB	ALA	L	128	172.586	84.487	41.814	1.00106.91		LS12
ATOM	45746	C	ALA	L	128	171.793	86.820	42.289	1.00168.76		LS12
ATOM	45747	O	ALA	L	128	172.145	87.801	41.601	1.00168.76		LS12
ATOM	45748	OXT	ALA	L	128	171.691	86.848	43.533	1.00135.88		LS12
TER	45748		ALA	L	128						LS12
ATOM	45749	CB	ALA	M	2	280.168	116.122	-8.243	1.00117.33		MS13
ATOM	45750	C	ALA	M	2	278.336	114.515	-7.680	1.00	66.17	MS13
ATOM	45751	O	ALA	M	2	277.720	114.871	-6.679	1.00	66.17	MS13
ATOM	45752	N	ALA	M	2	277.843	116.646	-8.896	1.00	66.17	MS13
ATOM	45753	CA	ALA	M	2	278.830	115.544	-8.696	1.00	66.17	MS13
ATOM	45754	N	ARG	M	3	278.611	113.238	-7.940	1.00	68.38	MS13
ATOM	45755	CA	ARG	M	3	278.191	112.169	-7.035	1.00	68.38	MS13
ATOM	45756	CB	ARG	M	3	278.866	110.842	-7.389	1.00177.35		MS13
ATOM	45757	CG	ARG	M	3	278.565	110.331	-8.775	1.00177.35		MS13
ATOM	45758	CD	ARG	M	3	279.132	108.944	-8.969	1.00177.35		MS13
ATOM	45759	NE	ARG	M	3	279.153	108.575	-10.379	1.00177.35		MS13
ATOM	45760	CZ	ARG	M	3	279.654	107.438	-10.844	1.00177.35		MS13
ATOM	45761	NH1	ARG	M	3	280.175	106.549	-10.008	1.00177.35		MS13
ATOM	45762	NH2	ARG	M	3	279.648	107.195	-12.148	1.00177.35		MS13
ATOM	45763	C	ARG	M	3	278.550	112.528	-5.609	1.00	68.38	MS13
ATOM	45764	O	ARG	M	3	279.723	112.538	-5.250	1.00	68.38	MS13
ATOM	45765	N	ILE	M	4	277.544	112.820	-4.794	1.00120.47		MS13
ATOM	45766	CA	ILE	M	4	277.806	113.178	-3.414	1.00120.47		MS13
ATOM	45767	CB	ILE	M	4	277.007	114.429	-3.013	1.00	52.70	MS13
ATOM	45768	CG2	ILE	M	4	276.880	114.519	-1.512	1.00	52.70	MS13
ATOM	45769	CG1	ILE	M	4	277.722	115.675	-3.545	1.00	52.70	MS13
ATOM	45770	CD1	ILE	M	4	277.134	116.997	-3.067	1.00	52.70	MS13
ATOM	45771	C	ILE	M	4	277.563	112.045	-2.421	1.00120.47		MS13
ATOM	45772	O	ILE	M	4	278.507	111.353	-2.037	1.00120.47		MS13
ATOM	45773	N	ALA	M	5	276.317	111.840	-2.004	1.00	48.46	MS13
ATOM	45774	CA	ALA	M	5	276.036	110.774	-1.042	1.00	48.46	MS13
ATOM	45775	CB	ALA	M	5	274.851	111.155	-0.156	1.00	77.98	MS13
ATOM	45776	C	ALA	M	5	275.756	109.460	-1.755	1.00	48.46	MS13
ATOM	45777	O	ALA	M	5	275.805	109.393	-2.987	1.00	48.46	MS13
ATOM	45778	N	GLY	M	6	275.467	108.422	-0.972	1.00152.70		MS13
ATOM	45779	CA	GLY	M	6	275.176	107.114	-1.534	1.00152.70		MS13
ATOM	45780	C	GLY	M	6	274.700	107.169	-2.976	1.00152.70		MS13
ATOM	45781	O	GLY	M	6	273.516	107.371	-3.245	1.00152.70		MS13
ATOM	45782	N	VAL	M	7	275.642	107.004	-3.900	1.00117.77		MS13
ATOM	45783	CA	VAL	M	7	275.372	107.019	-5.335	1.00117.77		MS13
ATOM	45784	CB	VAL	M	7	274.751	105.667	-5.803	1.00162.85		MS13
ATOM	45785	CG1	VAL	M	7	275.618	104.507	-5.323	1.00162.85		MS13
ATOM	45786	CG2	VAL	M	7	273.322	105.520	-5.289	1.00162.85		MS13
ATOM	45787	C	VAL	M	7	274.484	108.174	-5.804	1.00117.77		MS13
ATOM	45788	O	VAL	M	7	273.748	108.045	-6.780	1.00117.77		MS13
ATOM	45789	N	GLU	M	8	274.557	109.302	-5.109	1.00	77.21	MS13
ATOM	45790	CA	GLU	M	8	273.768	110.473	-5.482	1.00	77.21	MS13
ATOM	45791	CB	GLU	M	8	273.503	111.349	-4.258	1.00197.98		MS13
ATOM	45792	CG	GLU	M	8	272.557	110.714	-3.260	1.00197.98		MS13
ATOM	45793	CD	GLU	M	8	271.193	110.432	-3.860	1.00197.98		MS13
ATOM	45794	OE1	GLU	M	8	270.491	111.401	-4.217	1.00197.98		MS13
ATOM	45795	OE2	GLU	M	8	270.826	109.243	-3.982	1.00197.98		MS13



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ATOM	45796	C	GLU	M	8	274.545	111.264	-6.524	1.00	77.21	MS13
ATOM	45797	O	GLU	M	8	275.765	111.328	-6.456	1.00	77.21	MS13
ATOM	45798	N	ILE	M	9	273.844	111.866	-7.482	1.00	109.78	MS13
ATOM	45799	CA	ILE	M	9	274.508	112.627	-8.539	1.00	109.78	MS13
ATOM	45800	CB	ILE	M	9	274.939	111.707	-9.713	1.00	83.75	MS13
ATOM	45801	CG2	ILE	M	9	276.310	112.127	-10.224	1.00	83.75	MS13
ATOM	45802	CG1	ILE	M	9	274.944	110.237	-9.279	1.00	83.75	MS13
ATOM	45803	CD1	ILE	M	9	273.560	109.615	-9.154	1.00	83.75	MS13
ATOM	45804	C	ILE	M	9	273.635	113.733	-9.135	1.00	109.78	MS13
ATOM	45805	O	ILE	M	9	273.128	113.602	-10.247	1.00	109.78	MS13
ATOM	45806	N	PRO	M	10	273.451	114.842	-8.412	1.00	118.58	MS13
ATOM	45807	CD	PRO	M	10	273.949	115.185	-7.066	1.00	87.45	MS13
ATOM	45808	CA	PRO	M	10	272.618	115.917	-8.965	1.00	118.58	MS13
ATOM	45809	CB	PRO	M	10	272.360	116.790	-7.746	1.00	87.45	MS13
ATOM	45810	CG	PRO	M	10	273.667	116.670	-6.981	1.00	87.45	MS13
ATOM	45811	C	PRO	M	10	273.379	116.668	-10.057	1.00	118.58	MS13
ATOM	45812	O	PRO	M	10	274.569	116.931	-9.884	1.00	118.58	MS13
ATOM	45813	N	ARG	M	11	272.733	117.009	-11.175	1.00	76.99	MS13
ATOM	45814	CA	ARG	M	11	273.467	117.754	-12.209	1.00	76.99	MS13
ATOM	45815	CB	ARG	M	11	274.208	116.798	-13.150	1.00	124.01	MS13
ATOM	45816	CG	ARG	M	11	275.031	117.533	-14.206	1.00	124.01	MS13
ATOM	45817	CD	ARG	M	11	276.160	116.695	-14.770	1.00	124.01	MS13
ATOM	45818	NE	ARG	M	11	276.962	117.466	-15.718	1.00	124.01	MS13
ATOM	45819	CZ	ARG	M	11	278.087	117.033	-16.282	1.00	124.01	MS13
ATOM	45820	NH1	ARG	M	11	278.557	115.826	-15.996	1.00	124.01	MS13
ATOM	45821	NH2	ARG	M	11	278.740	117.810	-17.136	1.00	124.01	MS13
ATOM	45822	C	ARG	M	11	272.687	118.760	-13.051	1.00	76.99	MS13
ATOM	45823	O	ARG	M	11	271.454	118.769	-13.040	1.00	76.99	MS13
ATOM	45824	N	ASN	M	12	273.437	119.615	-13.759	1.00	44.77	MS13
ATOM	45825	CA	ASN	M	12	272.892	120.647	-14.646	1.00	44.77	MS13
ATOM	45826	CB	ASN	M	12	272.341	119.981	-15.905	1.00	80.32	MS13
ATOM	45827	CG	ASN	M	12	272.384	120.896	-17.106	1.00	80.32	MS13
ATOM	45828	OD1	ASN	M	12	271.747	121.951	-17.128	1.00	80.32	MS13
ATOM	45829	ND2	ASN	M	12	273.147	120.501	-18.114	1.00	80.32	MS13
ATOM	45830	C	ASN	M	12	271.821	121.594	-14.042	1.00	44.77	MS13
ATOM	45831	O	ASN	M	12	271.237	122.433	-14.743	1.00	44.77	MS13
ATOM	45832	N	LYS	M	13	271.580	121.471	-12.741	1.00	79.53	MS13
ATOM	45833	CA	LYS	M	13	270.603	122.307	-12.050	1.00	79.53	MS13
ATOM	45834	CB	LYS	M	13	269.493	121.432	-11.468	1.00	89.08	MS13
ATOM	45835	CG	LYS	M	13	268.225	121.354	-12.300	1.00	89.08	MS13
ATOM	45836	CD	LYS	M	13	267.316	120.233	-11.808	1.00	89.08	MS13
ATOM	45837	CE	LYS	M	13	265.968	120.290	-12.496	1.00	89.08	MS13
ATOM	45838	NZ	LYS	M	13	266.110	120.405	-13.966	1.00	89.08	MS13
ATOM	45839	C	LYS	M	13	271.269	123.058	-10.907	1.00	79.53	MS13
ATOM	45840	O	LYS	M	13	272.307	122.628	-10.407	1.00	79.53	MS13
ATOM	45841	N	ARG	M	14	270.682	124.181	-10.497	1.00	46.19	MS13
ATOM	45842	CA	ARG	M	14	271.209	124.937	-9.365	1.00	46.19	MS13
ATOM	45843	CB	ARG	M	14	270.147	125.904	-8.851	1.00	63.00	MS13
ATOM	45844	CG	ARG	M	14	269.981	127.128	-9.703	1.00	63.00	MS13
ATOM	45845	CD	ARG	M	14	268.700	127.853	-9.355	1.00	63.00	MS13
ATOM	45846	NE	ARG	M	14	268.909	129.270	-9.061	1.00	63.00	MS13
ATOM	45847	CZ	ARG	M	14	269.228	129.752	-7.859	1.00	63.00	MS13
ATOM	45848	NH1	ARG	M	14	269.377	128.929	-6.824	1.00	63.00	MS13
ATOM	45849	NH2	ARG	M	14	269.392	131.064	-7.690	1.00	63.00	MS13
ATOM	45850	C	ARG	M	14	271.573	123.929	-8.261	1.00	46.19	MS13
ATOM	45851	O	ARG	M	14	270.843	122.968	-8.024	1.00	46.19	MS13
ATOM	45852	N	VAL	M	15	272.698	124.141	-7.592	1.00	83.19	MS13
ATOM	45853	CA	VAL	M	15	273.135	123.219	-6.553	1.00	83.19	MS13
ATOM	45854	CB	VAL	M	15	274.446	123.694	-5.933	1.00	61.71	MS13
ATOM	45855	CG1	VAL	M	15	274.931	122.691	-4.899	1.00	61.71	MS13
ATOM	45856	CG2	VAL	M	15	275.471	123.862	-7.018	1.00	61.71	MS13
ATOM	45857	C	VAL	M	15	272.119	122.973	-5.440	1.00	83.19	MS13
ATOM	45858	O	VAL	M	15	271.911	121.825	-5.037	1.00	83.19	MS13
ATOM	45859	N	ASP	M	16	271.501	124.040	-4.937	1.00	109.84	MS13
ATOM	45860	CA	ASP	M	16	270.498	123.924	-3.873	1.00	109.84	MS13
ATOM	45861	CB	ASP	M	16	269.909	125.301	-3.559	1.00	84.76	MS13
ATOM	45862	CG	ASP	M	16	269.636	126.122	-4.812	1.00	84.76	MS13
ATOM	45863	OD1	ASP	M	16	269.814	125.587	-5.929	1.00	84.76	MS13
ATOM	45864	OD2	ASP	M	16	269.241	127.305	-4.680	1.00	84.76	MS13
ATOM	45865	C	ASP	M	16	269.386	122.957	-4.284	1.00	109.84	MS13
ATOM	45866	O	ASP	M	16	269.076	122.007	-3.565	1.00	109.84	MS13
ATOM	45867	N	VAL	M	17	268.793	123.224	-5.444	1.00	63.54	MS13
ATOM	45868	CA	VAL	M	17	267.739	122.396	-6.028	1.00	63.54	MS13
ATOM	45869	CB	VAL	M	17	267.361	122.925	-7.420	1.00	47.33	MS13
ATOM	45870	CG1	VAL	M	17	266.815	121.805	-8.264	1.00	47.33	MS13
ATOM	45871	CG2	VAL	M	17	266.343	124.053	-7.301	1.00	47.33	MS13
ATOM	45872	C	VAL	M	17	268.266	120.979	-6.213	1.00	63.54	MS13



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ATOM	45873	O	VAL	M	17	267.627	119.991	-5.840	1.00	63.54	MS13
ATOM	45874	N	ALA	M	18	269.442	120.915	-6.825	1.00	56.22	MS13
ATOM	45875	CA	ALA	M	18	270.135	119.672	-7.107	1.00	56.22	MS13
ATOM	45876	CB	ALA	M	18	271.480	119.984	-7.734	1.00	50.08	MS13
ATOM	45877	C	ALA	M	18	270.328	118.798	-5.871	1.00	56.22	MS13
ATOM	45878	O	ALA	M	18	270.121	117.588	-5.916	1.00	56.22	MS13
ATOM	45879	N	LEU	M	19	270.731	119.406	-4.764	1.00	68.51	MS13
ATOM	45880	CA	LEU	M	19	270.955	118.641	-3.544	1.00	68.51	MS13
ATOM	45881	CB	LEU	M	19	271.588	119.540	-2.485	1.00	56.78	MS13
ATOM	45882	CG	LEU	M	19	273.053	119.822	-2.822	1.00	56.78	MS13
ATOM	45883	CD1	LEU	M	19	273.457	121.198	-2.340	1.00	56.78	MS13
ATOM	45884	CD2	LEU	M	19	273.921	118.728	-2.210	1.00	56.78	MS13
ATOM	45885	C	LEU	M	19	269.675	118.011	-3.024	1.00	68.51	MS13
ATOM	45886	O	LEU	M	19	269.713	116.958	-2.377	1.00	68.51	MS13
ATOM	45887	N	THR	M	20	268.549	118.660	-3.320	1.00	76.98	MS13
ATOM	45888	CA	THR	M	20	267.238	118.175	-2.902	1.00	76.98	MS13
ATOM	45889	CB	THR	M	20	266.099	119.017	-3.502	1.00	113.08	MS13
ATOM	45890	OG1	THR	M	20	266.221	120.374	-3.065	1.00	113.08	MS13
ATOM	45891	CG2	THR	M	20	264.752	118.478	-3.059	1.00	113.08	MS13
ATOM	45892	C	THR	M	20	267.087	116.756	-3.409	1.00	76.98	MS13
ATOM	45893	O	THR	M	20	266.455	115.914	-2.754	1.00	76.98	MS13
ATOM	45894	N	TYR	M	21	267.679	116.505	-4.579	1.00	41.21	MS13
ATOM	45895	CA	TYR	M	21	267.635	115.189	-5.210	1.00	41.21	MS13
ATOM	45896	CB	TYR	M	21	268.303	115.203	-6.585	1.00	73.72	MS13
ATOM	45897	CG	TYR	M	21	267.415	115.787	-7.640	1.00	73.72	MS13
ATOM	45898	CD1	TYR	M	21	267.314	117.164	-7.802	1.00	73.72	MS13
ATOM	45899	CE1	TYR	M	21	266.430	117.716	-8.720	1.00	73.72	MS13
ATOM	45900	CD2	TYR	M	21	266.612	114.966	-8.426	1.00	73.72	MS13
ATOM	45901	CE2	TYR	M	21	265.718	115.501	-9.346	1.00	73.72	MS13
ATOM	45902	CZ	TYR	M	21	265.629	116.882	-9.493	1.00	73.72	MS13
ATOM	45903	OH	TYR	M	21	264.741	117.431	-10.404	1.00	73.72	MS13
ATOM	45904	C	TYR	M	21	268.236	114.074	-4.391	1.00	41.21	MS13
ATOM	45905	O	TYR	M	21	268.276	112.942	-4.849	1.00	41.21	MS13
ATOM	45906	N	ILE	M	22	268.714	114.385	-3.191	1.00	72.50	MS13
ATOM	45907	CA	ILE	M	22	269.267	113.353	-2.321	1.00	72.50	MS13
ATOM	45908	CB	ILE	M	22	270.522	113.860	-1.574	1.00	87.60	MS13
ATOM	45909	CG2	ILE	M	22	271.068	112.769	-0.658	1.00	87.60	MS13
ATOM	45910	CG1	ILE	M	22	271.582	114.284	-2.600	1.00	87.60	MS13
ATOM	45911	CD1	ILE	M	22	272.945	114.591	-2.016	1.00	87.60	MS13
ATOM	45912	C	ILE	M	22	268.154	112.965	-1.341	1.00	72.50	MS13
ATOM	45913	O	ILE	M	22	267.300	113.796	-0.998	1.00	72.50	MS13
ATOM	45914	N	TYR	M	23	268.155	111.705	-0.910	1.00	90.57	MS13
ATOM	45915	CA	TYR	M	23	267.122	111.196	-0.014	1.00	90.57	MS13
ATOM	45916	CB	TYR	M	23	267.346	109.710	0.276	1.00	72.13	MS13
ATOM	45917	CG	TYR	M	23	266.149	109.043	0.916	1.00	72.13	MS13
ATOM	45918	CD1	TYR	M	23	264.885	109.115	0.321	1.00	72.13	MS13
ATOM	45919	CE1	TYR	M	23	263.758	108.556	0.935	1.00	72.13	MS13
ATOM	45920	CD2	TYR	M	23	266.262	108.384	2.142	1.00	72.13	MS13
ATOM	45921	CE2	TYR	M	23	265.141	107.819	2.768	1.00	72.13	MS13
ATOM	45922	CZ	TYR	M	23	263.894	107.914	2.159	1.00	72.13	MS13
ATOM	45923	OH	TYR	M	23	262.785	107.395	2.787	1.00	72.13	MS13
ATOM	45924	C	TYR	M	23	266.954	111.949	1.297	1.00	90.57	MS13
ATOM	45925	O	TYR	M	23	265.831	112.255	1.692	1.00	90.57	MS13
ATOM	45926	N	GLY	M	24	268.052	112.253	1.978	1.00	95.88	MS13
ATOM	45927	CA	GLY	M	24	267.929	112.972	3.236	1.00	95.88	MS13
ATOM	45928	C	GLY	M	24	267.999	114.492	3.145	1.00	95.88	MS13
ATOM	45929	O	GLY	M	24	268.191	115.167	4.158	1.00	95.88	MS13
ATOM	45930	N	ILE	M	25	267.837	115.051	1.951	1.00	92.13	MS13
ATOM	45931	CA	ILE	M	25	267.921	116.499	1.818	1.00	92.13	MS13
ATOM	45932	CB	ILE	M	25	269.139	116.918	0.968	1.00	73.65	MS13
ATOM	45933	CG2	ILE	M	25	269.396	118.413	1.118	1.00	73.65	MS13
ATOM	45934	CG1	ILE	M	25	270.382	116.168	1.433	1.00	73.65	MS13
ATOM	45935	CD1	ILE	M	25	271.554	116.362	0.521	1.00	73.65	MS13
ATOM	45936	C	ILE	M	25	266.684	117.145	1.216	1.00	92.13	MS13
ATOM	45937	O	ILE	M	25	266.108	116.653	0.239	1.00	92.13	MS13
ATOM	45938	N	GLY	M	26	266.297	118.262	1.824	1.00	56.18	MS13
ATOM	45939	CA	GLY	M	26	265.149	119.026	1.380	1.00	56.18	MS13
ATOM	45940	C	GLY	M	26	265.581	120.452	1.092	1.00	56.18	MS13
ATOM	45941	O	GLY	M	26	266.766	120.752	1.157	1.00	56.18	MS13
ATOM	45942	N	LYS	M	27	264.634	121.329	0.769	1.00	82.49	MS13
ATOM	45943	CA	LYS	M	27	264.959	122.717	0.469	1.00	82.49	MS13
ATOM	45944	CB	LYS	M	27	263.695	123.500	0.105	1.00	106.28	MS13
ATOM	45945	CG	LYS	M	27	263.444	123.612	-1.388	1.00	106.28	MS13
ATOM	45946	CD	LYS	M	27	264.559	124.398	-2.068	1.00	106.28	MS13
ATOM	45947	CE	LYS	M	27	264.234	124.676	-3.529	1.00	106.28	MS13
ATOM	45948	NZ	LYS	M	27	265.215	125.616	-4.138	1.00	106.28	MS13
ATOM	45949	C	LYS	M	27	265.637	123.367	1.660	1.00	82.49	MS13



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ATOM	45950	O	LYS	M	27	266.300	124.392	1.521	1.00	82.49	MS13
ATOM	45951	N	ALA	M	28	265.474	122.757	2.830	1.00	89.80	MS13
ATOM	45952	CA	ALA	M	28	266.071	123.277	4.052	1.00	89.80	MS13
ATOM	45953	CB	ALA	M	28	265.340	122.710	5.259	1.00	66.12	MS13
ATOM	45954	C	ALA	M	28	267.565	122.950	4.127	1.00	89.80	MS13
ATOM	45955	O	ALA	M	28	268.407	123.823	3.930	1.00	89.80	MS13
ATOM	45956	N	ARG	M	29	267.892	121.694	4.413	1.00	60.81	MS13
ATOM	45957	CA	ARG	M	29	269.283	121.268	4.503	1.00	60.81	MS13
ATOM	45958	CB	ARG	M	29	269.353	119.746	4.638	1.00	55.11	MS13
ATOM	45959	CG	ARG	M	29	268.630	119.235	5.860	1.00	55.11	MS13
ATOM	45960	CD	ARG	M	29	268.704	117.728	6.007	1.00	55.11	MS13
ATOM	45961	NE	ARG	M	29	268.771	117.385	7.424	1.00	55.11	MS13
ATOM	45962	CZ	ARG	M	29	268.772	116.148	7.910	1.00	55.11	MS13
ATOM	45963	NH1	ARG	M	29	268.698	115.100	7.093	1.00	55.11	MS13
ATOM	45964	NH2	ARG	M	29	268.880	115.960	9.221	1.00	55.11	MS13
ATOM	45965	C	ARG	M	29	270.087	121.709	3.281	1.00	60.81	MS13
ATOM	45966	O	ARG	M	29	271.300	121.885	3.373	1.00	60.81	MS13
ATOM	45967	N	ALA	M	30	269.406	121.879	2.144	1.00	59.15	MS13
ATOM	45968	CA	ALA	M	30	270.039	122.300	0.894	1.00	59.15	MS13
ATOM	45969	CB	ALA	M	30	269.018	122.308	-0.236	1.00	107.54	MS13
ATOM	45970	C	ALA	M	30	270.654	123.683	1.043	1.00	59.15	MS13
ATOM	45971	O	ALA	M	30	271.860	123.849	0.856	1.00	59.15	MS13
ATOM	45972	N	LYS	M	31	269.821	124.673	1.370	1.00	85.63	MS13
ATOM	45973	CA	LYS	M	31	270.278	126.054	1.565	1.00	85.63	MS13
ATOM	45974	CB	LYS	M	31	269.103	126.996	1.828	1.00	119.47	MS13
ATOM	45975	CG	LYS	M	31	268.437	127.576	0.600	1.00	119.47	MS13
ATOM	45976	CD	LYS	M	31	267.411	128.609	1.039	1.00	119.47	MS13
ATOM	45977	CE	LYS	M	31	266.680	129.241	-0.129	1.00	119.47	MS13
ATOM	45978	NZ	LYS	M	31	265.681	130.236	0.359	1.00	119.47	MS13
ATOM	45979	C	LYS	M	31	271.212	126.138	2.757	1.00	85.63	MS13
ATOM	45980	O	LYS	M	31	272.166	126.912	2.772	1.00	85.63	MS13
ATOM	45981	N	GLU	M	32	270.922	125.338	3.768	1.00	69.65	MS13
ATOM	45982	CA	GLU	M	32	271.734	125.333	4.961	1.00	69.65	MS13
ATOM	45983	CB	GLU	M	32	271.017	124.541	6.058	1.00	100.60	MS13
ATOM	45984	CG	GLU	M	32	271.671	124.630	7.406	1.00	100.60	MS13
ATOM	45985	CD	GLU	M	32	272.409	123.362	7.748	1.00	100.60	MS13
ATOM	45986	OE1	GLU	M	32	273.069	122.805	6.846	1.00	100.60	MS13
ATOM	45987	OE2	GLU	M	32	272.337	122.922	8.914	1.00	100.60	MS13
ATOM	45988	C	GLU	M	32	273.122	124.761	4.660	1.00	69.65	MS13
ATOM	45989	O	GLU	M	32	274.127	125.337	5.071	1.00	69.65	MS13
ATOM	45990	N	ALA	M	33	273.190	123.652	3.921	1.00	87.66	MS13
ATOM	45991	CA	ALA	M	33	274.481	123.030	3.585	1.00	87.66	MS13
ATOM	45992	CB	ALA	M	33	274.266	121.635	3.005	1.00	90.77	MS13
ATOM	45993	C	ALA	M	33	275.316	123.873	2.622	1.00	87.66	MS13
ATOM	45994	O	ALA	M	33	276.541	123.809	2.639	1.00	87.66	MS13
ATOM	45995	N	LEU	M	34	274.658	124.645	1.764	1.00	81.47	MS13
ATOM	45996	CA	LEU	M	34	275.392	125.508	0.852	1.00	81.47	MS13
ATOM	45997	CB	LEU	M	34	274.490	126.052	-0.253	1.00	68.73	MS13
ATOM	45998	CG	LEU	M	34	274.104	125.079	-1.366	1.00	68.73	MS13
ATOM	45999	CD1	LEU	M	34	273.925	125.877	-2.650	1.00	68.73	MS13
ATOM	46000	CD2	LEU	M	34	275.191	124.018	-1.563	1.00	68.73	MS13
ATOM	46001	C	LEU	M	34	275.911	126.662	1.686	1.00	81.47	MS13
ATOM	46002	O	LEU	M	34	277.015	127.154	1.466	1.00	81.47	MS13
ATOM	46003	N	GLU	M	35	275.090	127.075	2.650	1.00	89.41	MS13
ATOM	46004	CA	GLU	M	35	275.401	128.166	3.576	1.00	89.41	MS13
ATOM	46005	CB	GLU	M	35	274.332	128.220	4.673	1.00	148.73	MS13
ATOM	46006	CG	GLU	M	35	274.342	129.476	5.518	1.00	148.73	MS13
ATOM	46007	CD	GLU	M	35	273.622	130.621	4.844	1.00	148.73	MS13
ATOM	46008	OE1	GLU	M	35	272.402	130.492	4.604	1.00	148.73	MS13
ATOM	46009	OE2	GLU	M	35	274.271	131.646	4.552	1.00	148.73	MS13
ATOM	46010	C	GLU	M	35	276.772	127.955	4.223	1.00	89.41	MS13
ATOM	46011	O	GLU	M	35	277.685	128.765	4.051	1.00	89.41	MS13
ATOM	46012	N	LYS	M	36	276.895	126.859	4.969	1.00	88.06	MS13
ATOM	46013	CA	LYS	M	36	278.133	126.507	5.652	1.00	88.06	MS13
ATOM	46014	CB	LYS	M	36	277.950	125.203	6.422	1.00	107.96	MS13
ATOM	46015	CG	LYS	M	36	276.914	125.283	7.509	1.00	107.96	MS13
ATOM	46016	CD	LYS	M	36	276.830	123.975	8.255	1.00	107.96	MS13
ATOM	46017	CE	LYS	M	36	275.795	124.054	9.361	1.00	107.96	MS13
ATOM	46018	NZ	LYS	M	36	275.669	122.763	10.100	1.00	107.96	MS13
ATOM	46019	C	LYS	M	36	279.314	126.357	4.700	1.00	88.06	MS13
ATOM	46020	O	LYS	M	36	280.361	126.967	4.907	1.00	88.06	MS13
ATOM	46021	N	THR	M	37	279.145	125.537	3.664	1.00	89.25	MS13
ATOM	46022	CA	THR	M	37	280.196	125.297	2.675	1.00	89.25	MS13
ATOM	46023	CB	THR	M	37	279.850	124.052	1.814	1.00	100.85	MS13
ATOM	46024	OG1	THR	M	37	279.750	122.903	2.665	1.00	100.85	MS13
ATOM	46025	CG2	THR	M	37	280.931	123.778	0.789	1.00	100.85	MS13
ATOM	46026	C	THR	M	37	280.430	126.523	1.777	1.00	89.25	MS13



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ATOM	46027	O	THR	M	37	281.099	126.443	0.745	1.00	89.25	MS13
ATOM	46028	N	GLY	M	38	279.885	127.663	2.199	1.00	77.43	MS13
ATOM	46029	CA	GLY	M	38	280.037	128.897	1.452	1.00	77.43	MS13
ATOM	46030	C	GLY	M	38	280.117	128.719	-0.052	1.00	77.43	MS13
ATOM	46031	O	GLY	M	38	281.154	128.971	-0.658	1.00	77.43	MS13
ATOM	46032	N	ILE	M	39	279.022	128.275	-0.656	1.00	107.42	MS13
ATOM	46033	CA	ILE	M	39	278.974	128.076	-2.097	1.00	107.42	MS13
ATOM	46034	CB	ILE	M	39	278.812	126.584	-2.467	1.00	45.65	MS13
ATOM	46035	CG2	ILE	M	39	278.787	126.415	-3.993	1.00	45.65	MS13
ATOM	46036	CG1	ILE	M	39	279.941	125.770	-1.840	1.00	45.65	MS13
ATOM	46037	CD1	ILE	M	39	279.924	124.307	-2.224	1.00	45.65	MS13
ATOM	46038	C	ILE	M	39	277.760	128.815	-2.614	1.00	107.42	MS13
ATOM	46039	O	ILE	M	39	276.660	128.645	-2.092	1.00	107.42	MS13
ATOM	46040	N	ASN	M	40	277.948	129.647	-3.627	1.00	77.30	MS13
ATOM	46041	CA	ASN	M	40	276.812	130.361	-4.169	1.00	77.30	MS13
ATOM	46042	CB	ASN	M	40	277.207	131.151	-5.400	1.00	92.21	MS13
ATOM	46043	CG	ASN	M	40	276.012	131.754	-6.103	1.00	92.21	MS13
ATOM	46044	OD1	ASN	M	40	276.131	132.262	-7.214	1.00	92.21	MS13
ATOM	46045	ND2	ASN	M	40	274.851	131.706	-5.458	1.00	92.21	MS13
ATOM	46046	C	ASN	M	40	275.802	129.305	-4.570	1.00	77.30	MS13
ATOM	46047	O	ASN	M	40	276.157	128.324	-5.225	1.00	77.30	MS13
ATOM	46048	N	PRO	M	41	274.533	129.476	-4.169	1.00	96.12	MS13
ATOM	46049	CD	PRO	M	41	274.008	130.439	-3.187	1.00	84.51	MS13
ATOM	46050	CA	PRO	M	41	273.505	128.494	-4.526	1.00	96.12	MS13
ATOM	46051	CB	PRO	M	41	272.275	129.004	-3.787	1.00	84.51	MS13
ATOM	46052	CG	PRO	M	41	272.858	129.671	-2.591	1.00	84.51	MS13
ATOM	46053	C	PRO	M	41	273.290	128.473	-6.029	1.00	96.12	MS13
ATOM	46054	O	PRO	M	41	273.296	127.418	-6.658	1.00	96.12	MS13
ATOM	46055	N	ALA	M	42	273.115	129.667	-6.583	1.00	65.87	MS13
ATOM	46056	CA	ALA	M	42	272.874	129.869	-8.006	1.00	65.87	MS13
ATOM	46057	CB	ALA	M	42	272.930	131.357	-8.316	1.00	74.14	MS13
ATOM	46058	C	ALA	M	42	273.778	129.111	-8.986	1.00	65.87	MS13
ATOM	46059	O	ALA	M	42	273.460	129.001	-10.179	1.00	65.87	MS13
ATOM	46060	N	THR	M	43	274.899	128.590	-8.507	1.00	81.33	MS13
ATOM	46061	CA	THR	M	43	275.792	127.870	-9.402	1.00	81.33	MS13
ATOM	46062	CB	THR	M	43	277.185	127.655	-8.750	1.00	82.59	MS13
ATOM	46063	OG1	THR	M	43	277.025	127.065	-7.453	1.00	82.59	MS13
ATOM	46064	CG2	THR	M	43	277.932	128.987	-8.626	1.00	82.59	MS13
ATOM	46065	C	THR	M	43	275.228	126.516	-9.856	1.00	81.33	MS13
ATOM	46066	O	THR	M	43	274.692	125.754	-9.050	1.00	81.33	MS13
ATOM	46067	N	ARG	M	44	275.336	126.243	-11.159	1.00	51.64	MS13
ATOM	46068	CA	ARG	M	44	274.883	124.983	-11.744	1.00	51.64	MS13
ATOM	46069	CB	ARG	M	44	274.960	125.063	-13.267	1.00	99.19	MS13
ATOM	46070	CG	ARG	M	44	273.624	124.972	-13.947	1.00	99.19	MS13
ATOM	46071	CD	ARG	M	44	272.687	126.043	-13.446	1.00	99.19	MS13
ATOM	46072	NE	ARG	M	44	271.298	125.645	-13.632	1.00	99.19	MS13
ATOM	46073	CZ	ARG	M	44	270.262	126.360	-13.218	1.00	99.19	MS13
ATOM	46074	NH1	ARG	M	44	270.462	127.514	-12.596	1.00	99.19	MS13
ATOM	46075	NH2	ARG	M	44	269.029	125.916	-13.415	1.00	99.19	MS13
ATOM	46076	C	ARG	M	44	275.848	123.920	-11.248	1.00	51.64	MS13
ATOM	46077	O	ARG	M	44	277.038	124.196	-11.139	1.00	51.64	MS13
ATOM	46078	N	VAL	M	45	275.372	122.719	-10.938	1.00	57.18	MS13
ATOM	46079	CA	VAL	M	45	276.298	121.694	-10.457	1.00	57.18	MS13
ATOM	46080	CB	VAL	M	45	275.619	120.319	-10.286	1.00	55.84	MS13
ATOM	46081	CG1	VAL	M	45	276.672	119.222	-10.159	1.00	55.84	MS13
ATOM	46082	CG2	VAL	M	45	274.763	120.331	-9.033	1.00	55.84	MS13
ATOM	46083	C	VAL	M	45	277.475	121.546	-11.411	1.00	57.18	MS13
ATOM	46084	O	VAL	M	45	278.628	121.452	-10.981	1.00	57.18	MS13
ATOM	46085	N	LYS	M	46	277.179	121.548	-12.707	1.00	70.83	MS13
ATOM	46086	CA	LYS	M	46	278.209	121.415	-13.730	1.00	70.83	MS13
ATOM	46087	CB	LYS	M	46	277.557	121.393	-15.111	1.00	89.08	MS13
ATOM	46088	CG	LYS	M	46	276.719	122.610	-15.416	1.00	89.08	MS13
ATOM	46089	CD	LYS	M	46	277.070	123.140	-16.788	1.00	89.08	MS13
ATOM	46090	CE	LYS	M	46	278.561	123.481	-16.864	1.00	89.08	MS13
ATOM	46091	NZ	LYS	M	46	279.012	123.957	-18.211	1.00	89.08	MS13
ATOM	46092	C	LYS	M	46	279.280	122.514	-13.676	1.00	70.83	MS13
ATOM	46093	O	LYS	M	46	280.289	122.437	-14.372	1.00	70.83	MS13
ATOM	46094	N	ASP	M	47	279.056	123.531	-12.850	1.00	62.51	MS13
ATOM	46095	CA	ASP	M	47	280.000	124.636	-12.700	1.00	62.51	MS13
ATOM	46096	CB	ASP	M	47	279.302	125.979	-12.908	1.00	110.99	MS13
ATOM	46097	CG	ASP	M	47	278.783	126.155	-14.316	1.00	110.99	MS13
ATOM	46098	OD1	ASP	M	47	279.571	125.968	-15.265	1.00	110.99	MS13
ATOM	46099	OD2	ASP	M	47	277.589	126.489	-14.473	1.00	110.99	MS13
ATOM	46100	C	ASP	M	47	280.617	124.612	-11.308	1.00	62.51	MS13
ATOM	46101	O	ASP	M	47	281.359	125.518	-10.924	1.00	62.51	MS13
ATOM	46102	N	LEU	M	48	280.305	123.575	-10.544	1.00	79.05	MS13
ATOM	46103	CA	LEU	M	48	280.852	123.469	-9.207	1.00	79.05	MS13



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ATOM	46104	CB	LEU	M	48	280.077	122.445	-8.389	1.00	76.32	MS13
ATOM	46105	CG	LEU	M	48	278.855	123.017	-7.683	1.00	76.32	MS13
ATOM	46106	CD1	LEU	M	48	278.421	122.012	-6.623	1.00	76.32	MS13
ATOM	46107	CD2	LEU	M	48	279.184	124.379	-7.041	1.00	76.32	MS13
ATOM	46108	C	LEU	M	48	282.326	123.104	-9.190	1.00	79.05	MS13
ATOM	46109	O	LEU	M	48	282.737	122.091	-9.766	1.00	79.05	MS13
ATOM	46110	N	THR	M	49	283.110	123.938	-8.513	1.00	77.74	MS13
ATOM	46111	CA	THR	M	49	284.548	123.735	-8.380	1.00	77.74	MS13
ATOM	46112	CB	THR	M	49	285.197	124.879	-7.607	1.00	55.36	MS13
ATOM	46113	OG1	THR	M	49	285.328	126.012	-8.467	1.00	55.36	MS13
ATOM	46114	CG2	THR	M	49	286.560	124.470	-7.089	1.00	55.36	MS13
ATOM	46115	C	THR	M	49	284.890	122.447	-7.658	1.00	77.74	MS13
ATOM	46116	O	THR	M	49	284.250	122.086	-6.669	1.00	77.74	MS13
ATOM	46117	N	GLU	M	50	285.921	121.772	-8.152	1.00	70.89	MS13
ATOM	46118	CA	GLU	M	50	286.364	120.525	-7.564	1.00	70.89	MS13
ATOM	46119	CB	GLU	M	50	287.703	120.110	-8.164	1.00	139.52	MS13
ATOM	46120	CG	GLU	M	50	288.062	118.687	-7.841	1.00	139.52	MS13
ATOM	46121	CD	GLU	M	50	286.897	117.764	-8.096	1.00	139.52	MS13
ATOM	46122	OE1	GLU	M	50	286.389	117.758	-9.238	1.00	139.52	MS13
ATOM	46123	OE2	GLU	M	50	286.485	117.054	-7.155	1.00	139.52	MS13
ATOM	46124	C	GLU	M	50	286.504	120.713	-6.061	1.00	70.89	MS13
ATOM	46125	O	GLU	M	50	286.239	119.798	-5.285	1.00	70.89	MS13
ATOM	46126	N	ALA	M	51	286.919	121.912	-5.663	1.00	91.75	MS13
ATOM	46127	CA	ALA	M	51	287.088	122.244	-4.254	1.00	91.75	MS13
ATOM	46128	CB	ALA	M	51	287.633	123.654	-4.109	1.00	83.30	MS13
ATOM	46129	C	ALA	M	51	285.737	122.150	-3.582	1.00	91.75	MS13
ATOM	46130	O	ALA	M	51	285.534	121.356	-2.664	1.00	91.75	MS13
ATOM	46131	N	GLU	M	52	284.813	122.976	-4.057	1.00	85.24	MS13
ATOM	46132	CA	GLU	M	52	283.463	123.009	-3.526	1.00	85.24	MS13
ATOM	46133	CB	GLU	M	52	282.593	123.898	-4.412	1.00	90.78	MS13
ATOM	46134	CG	GLU	M	52	283.153	125.299	-4.596	1.00	90.78	MS13
ATOM	46135	CD	GLU	M	52	282.324	126.144	-5.549	1.00	90.78	MS13
ATOM	46136	OE1	GLU	M	52	282.183	125.757	-6.732	1.00	90.78	MS13
ATOM	46137	OE2	GLU	M	52	281.811	127.199	-5.116	1.00	90.78	MS13
ATOM	46138	C	GLU	M	52	282.871	121.602	-3.441	1.00	85.24	MS13
ATOM	46139	O	GLU	M	52	282.392	121.186	-2.386	1.00	85.24	MS13
ATOM	46140	N	VAL	M	53	282.918	120.865	-4.548	1.00	70.39	MS13
ATOM	46141	CA	VAL	M	53	282.375	119.508	-4.580	1.00	70.39	MS13
ATOM	46142	CB	VAL	M	53	282.681	118.793	-5.918	1.00	45.69	MS13
ATOM	46143	CG1	VAL	M	53	282.104	117.375	-5.890	1.00	45.69	MS13
ATOM	46144	CG2	VAL	M	53	282.107	119.597	-7.090	1.00	45.69	MS13
ATOM	46145	C	VAL	M	53	282.946	118.663	-3.456	1.00	70.39	MS13
ATOM	46146	O	VAL	M	53	282.325	117.695	-3.023	1.00	70.39	MS13
ATOM	46147	N	VAL	M	54	284.135	119.034	-2.994	1.00	69.06	MS13
ATOM	46148	CA	VAL	M	54	284.793	118.308	-1.918	1.00	69.06	MS13
ATOM	46149	CB	VAL	M	54	286.309	118.570	-1.920	1.00	75.76	MS13
ATOM	46150	CG1	VAL	M	54	286.973	117.824	-0.770	1.00	75.76	MS13
ATOM	46151	CG2	VAL	M	54	286.897	118.136	-3.246	1.00	75.76	MS13
ATOM	46152	C	VAL	M	54	284.222	118.724	-0.569	1.00	69.06	MS13
ATOM	46153	O	VAL	M	54	283.774	117.882	0.208	1.00	69.06	MS13
ATOM	46154	N	ARG	M	55	284.245	120.024	-0.293	1.00	100.90	MS13
ATOM	46155	CA	ARG	M	55	283.721	120.543	0.964	1.00	100.90	MS13
ATOM	46156	CB	ARG	M	55	283.794	122.069	0.980	1.00	83.61	MS13
ATOM	46157	CG	ARG	M	55	285.185	122.642	0.846	1.00	83.61	MS13
ATOM	46158	CD	ARG	M	55	285.135	124.162	0.867	1.00	83.61	MS13
ATOM	46159	NE	ARG	M	55	284.339	124.692	-0.237	1.00	83.61	MS13
ATOM	46160	CZ	ARG	M	55	284.226	125.984	-0.530	1.00	83.61	MS13
ATOM	46161	NH1	ARG	M	55	284.857	126.893	0.197	1.00	83.61	MS13
ATOM	46162	NH2	ARG	M	55	283.486	126.370	-1.558	1.00	83.61	MS13
ATOM	46163	C	ARG	M	55	282.267	120.110	1.132	1.00	100.90	MS13
ATOM	46164	O	ARG	M	55	281.860	119.655	2.205	1.00	100.90	MS13
ATOM	46165	N	LEU	M	56	281.491	120.264	0.061	1.00	81.72	MS13
ATOM	46166	CA	LEU	M	56	280.079	119.898	0.058	1.00	81.72	MS13
ATOM	46167	CB	LEU	M	56	279.455	120.231	-1.298	1.00	75.55	MS13
ATOM	46168	CG	LEU	M	56	278.151	121.030	-1.285	1.00	75.55	MS13
ATOM	46169	CD1	LEU	M	56	277.611	121.132	-2.702	1.00	75.55	MS13
ATOM	46170	CD2	LEU	M	56	277.132	120.357	-0.374	1.00	75.55	MS13
ATOM	46171	C	LEU	M	56	279.929	118.404	0.331	1.00	81.72	MS13
ATOM	46172	O	LEU	M	56	279.240	117.995	1.264	1.00	81.72	MS13
ATOM	46173	N	ARG	M	57	280.587	117.595	-0.492	1.00	72.70	MS13
ATOM	46174	CA	ARG	M	57	280.533	116.148	-0.350	1.00	72.70	MS13
ATOM	46175	CB	ARG	M	57	281.530	115.489	-1.306	1.00	89.89	MS13
ATOM	46176	CG	ARG	M	57	281.404	113.987	-1.387	1.00	89.89	MS13
ATOM	46177	CD	ARG	M	57	282.477	113.385	-2.274	1.00	89.89	MS13
ATOM	46178	NE	ARG	M	57	282.504	114.005	-3.596	1.00	89.89	MS13
ATOM	46179	CZ	ARG	M	57	283.214	113.552	-4.629	1.00	89.89	MS13
ATOM	46180	NH1	ARG	M	57	283.963	112.463	-4.495	1.00	89.89	MS13



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ATOM	46181	NH2	ARG	M	57	283.176	114.189	-5.799	1.00	89.89	MS13
ATOM	46182	C	ARG	M	57	280.836	115.715	1.082	1.00	72.70	MS13
ATOM	46183	O	ARG	M	57	280.120	114.900	1.655	1.00	72.70	MS13
ATOM	46184	N	GLU	M	58	281.891	116.274	1.665	1.00	103.74	MS13
ATOM	46185	CA	GLU	M	58	282.289	115.907	3.020	1.00	103.74	MS13
ATOM	46186	CB	GLU	M	58	283.694	116.438	3.317	1.00	180.32	MS13
ATOM	46187	CG	GLU	M	58	284.739	116.004	2.297	1.00	180.32	MS13
ATOM	46188	CD	GLU	M	58	284.782	114.497	2.082	1.00	180.32	MS13
ATOM	46189	OE1	GLU	M	58	285.512	114.058	1.170	1.00	180.32	MS13
ATOM	46190	OE2	GLU	M	58	284.094	113.752	2.818	1.00	180.32	MS13
ATOM	46191	C	GLU	M	58	281.325	116.362	4.106	1.00	103.74	MS13
ATOM	46192	O	GLU	M	58	281.074	115.626	5.062	1.00	103.74	MS13
ATOM	46193	N	TYR	M	59	280.790	117.570	3.968	1.00	78.15	MS13
ATOM	46194	CA	TYR	M	59	279.848	118.080	4.958	1.00	78.15	MS13
ATOM	46195	CB	TYR	M	59	279.543	119.553	4.708	1.00	83.52	MS13
ATOM	46196	CG	TYR	M	59	278.427	120.061	5.583	1.00	83.52	MS13
ATOM	46197	CD1	TYR	M	59	278.482	119.909	6.964	1.00	83.52	MS13
ATOM	46198	CE1	TYR	M	59	277.462	120.348	7.770	1.00	83.52	MS13
ATOM	46199	CD2	TYR	M	59	277.311	120.674	5.032	1.00	83.52	MS13
ATOM	46200	CE2	TYR	M	59	276.279	121.119	5.831	1.00	83.52	MS13
ATOM	46201	CZ	TYR	M	59	276.361	120.950	7.201	1.00	83.52	MS13
ATOM	46202	OH	TYR	M	59	275.323	121.362	8.001	1.00	83.52	MS13
ATOM	46203	C	TYR	M	59	278.548	117.289	4.922	1.00	78.15	MS13
ATOM	46204	O	TYR	M	59	278.204	116.596	5.875	1.00	78.15	MS13
ATOM	46205	N	VAL	M	60	277.833	117.406	3.810	1.00	65.25	MS13
ATOM	46206	CA	VAL	M	60	276.571	116.710	3.601	1.00	65.25	MS13
ATOM	46207	CB	VAL	M	60	276.207	116.682	2.099	1.00	69.68	MS13
ATOM	46208	CG1	VAL	M	60	274.988	115.802	1.871	1.00	69.68	MS13
ATOM	46209	CG2	VAL	M	60	275.937	118.098	1.606	1.00	69.68	MS13
ATOM	46210	C	VAL	M	60	276.588	115.272	4.115	1.00	65.25	MS13
ATOM	46211	O	VAL	M	60	275.732	114.879	4.911	1.00	65.25	MS13
ATOM	46212	N	GLU	M	61	277.554	114.485	3.654	1.00	74.11	MS13
ATOM	46213	CA	GLU	M	61	277.650	113.090	4.069	1.00	74.11	MS13
ATOM	46214	CB	GLU	M	61	278.742	112.378	3.271	1.00	107.59	MS13
ATOM	46215	CG	GLU	M	61	278.505	112.400	1.771	1.00	107.59	MS13
ATOM	46216	CD	GLU	M	61	279.516	111.572	1.010	1.00	107.59	MS13
ATOM	46217	OE1	GLU	M	61	279.463	110.328	1.115	1.00	107.59	MS13
ATOM	46218	OE2	GLU	M	61	280.366	112.165	0.314	1.00	107.59	MS13
ATOM	46219	C	GLU	M	61	277.925	112.962	5.560	1.00	74.11	MS13
ATOM	46220	O	GLU	M	61	277.322	112.137	6.247	1.00	74.11	MS13
ATOM	46221	N	ASN	M	62	278.846	113.780	6.053	1.00	109.23	MS13
ATOM	46222	CA	ASN	M	62	279.194	113.778	7.464	1.00	109.23	MS13
ATOM	46223	CB	ASN	M	62	280.706	113.909	7.638	1.00	114.48	MS13
ATOM	46224	CG	ASN	M	62	281.415	112.573	7.599	1.00	114.48	MS13
ATOM	46225	OD1	ASN	M	62	282.638	112.514	7.470	1.00	114.48	MS13
ATOM	46226	ND2	ASN	M	62	280.651	111.489	7.726	1.00	114.48	MS13
ATOM	46227	C	ASN	M	62	278.504	114.957	8.119	1.00	109.23	MS13
ATOM	46228	O	ASN	M	62	279.082	116.033	8.224	1.00	109.23	MS13
ATOM	46229	N	THR	M	63	277.264	114.756	8.547	1.00	101.63	MS13
ATOM	46230	CA	THR	M	63	276.500	115.821	9.185	1.00	101.63	MS13
ATOM	46231	CB	THR	M	63	276.599	117.148	8.366	1.00	73.40	MS13
ATOM	46232	OG1	THR	M	63	276.137	118.248	9.154	1.00	73.40	MS13
ATOM	46233	CG2	THR	M	63	275.759	117.070	7.116	1.00	73.40	MS13
ATOM	46234	C	THR	M	63	275.036	115.384	9.311	1.00	101.63	MS13
ATOM	46235	O	THR	M	63	274.328	115.791	10.233	1.00	101.63	MS13
ATOM	46236	N	TRP	M	64	274.591	114.546	8.380	1.00	66.91	MS13
ATOM	46237	CA	TRP	M	64	273.224	114.045	8.397	1.00	66.91	MS13
ATOM	46238	CB	TRP	M	64	272.347	114.800	7.398	1.00	53.58	MS13
ATOM	46239	CG	TRP	M	64	272.216	116.258	7.671	1.00	53.58	MS13
ATOM	46240	CD2	TRP	M	64	272.379	117.321	6.723	1.00	53.58	MS13
ATOM	46241	CE2	TRP	M	64	272.126	118.539	7.410	1.00	53.58	MS13
ATOM	46242	CE3	TRP	M	64	272.713	117.366	5.359	1.00	53.58	MS13
ATOM	46243	CD1	TRP	M	64	271.880	116.851	8.861	1.00	53.58	MS13
ATOM	46244	NE1	TRP	M	64	271.824	118.224	8.709	1.00	53.58	MS13
ATOM	46245	CZ2	TRP	M	64	272.198	119.790	6.775	1.00	53.58	MS13
ATOM	46246	CZ3	TRP	M	64	272.785	118.616	4.725	1.00	53.58	MS13
ATOM	46247	CH2	TRP	M	64	272.528	119.809	5.437	1.00	53.58	MS13
ATOM	46248	C	TRP	M	64	273.194	112.564	8.053	1.00	66.91	MS13
ATOM	46249	O	TRP	M	64	274.191	111.977	7.622	1.00	66.91	MS13
ATOM	46250	N	LYS	M	65	272.029	111.968	8.258	1.00	119.17	MS13
ATOM	46251	CA	LYS	M	65	271.821	110.564	7.969	1.00	119.17	MS13
ATOM	46252	CB	LYS	M	65	270.959	109.953	9.069	1.00	91.46	MS13
ATOM	46253	CG	LYS	M	65	271.139	108.470	9.255	1.00	91.46	MS13
ATOM	46254	CD	LYS	M	65	270.817	108.072	10.691	1.00	91.46	MS13
ATOM	46255	CE	LYS	M	65	271.127	106.601	10.948	1.00	91.46	MS13
ATOM	46256	NZ	LYS	M	65	270.844	106.205	12.358	1.00	91.46	MS13
ATOM	46257	C	LYS	M	65	271.075	110.600	6.647	1.00	119.17	MS13



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ATOM	46258	O	LYS	M	65	270.023	111.233	6.557	1.00119.17	MS13
ATOM	46259	N	LEU	M	66	271.619	109.955	5.617	1.00 69.42	MS13
ATOM	46260	CA	LEU	M	66	270.965	109.970	4.308	1.00 69.42	MS13
ATOM	46261	CB	LEU	M	66	271.710	110.926	3.369	1.00 49.90	MS13
ATOM	46262	CG	LEU	M	66	271.912	112.355	3.895	1.00 49.90	MS13
ATOM	46263	CD1	LEU	M	66	273.143	112.373	4.783	1.00 49.90	MS13
ATOM	46264	CD2	LEU	M	66	272.086	113.350	2.744	1.00 49.90	MS13
ATOM	46265	C	LEU	M	66	270.817	108.602	3.641	1.00 69.42	MS13
ATOM	46266	O	LEU	M	66	271.001	107.564	4.285	1.00 69.42	MS13
ATOM	46267	N	GLU	M	67	270.473	108.625	2.351	1.00 66.93	MS13
ATOM	46268	CA	GLU	M	67	270.276	107.428	1.523	1.00 66.93	MS13
ATOM	46269	CB	GLU	M	67	271.471	107.229	0.599	1.00114.60	MS13
ATOM	46270	CG	GLU	M	67	271.571	108.311	-0.424	1.00114.60	MS13
ATOM	46271	CD	GLU	M	67	270.205	108.735	-0.901	1.00114.60	MS13
ATOM	46272	OE1	GLU	M	67	269.456	107.870	-1.412	1.00114.60	MS13
ATOM	46273	OE2	GLU	M	67	269.883	109.933	-0.750	1.00114.60	MS13
ATOM	46274	C	GLU	M	67	269.974	106.110	2.221	1.00 66.93	MS13
ATOM	46275	O	GLU	M	67	269.107	106.040	3.089	1.00 66.93	MS13
ATOM	46276	N	GLY	M	68	270.679	105.060	1.816	1.00 78.78	MS13
ATOM	46277	CA	GLY	M	68	270.468	103.752	2.412	1.00 78.78	MS13
ATOM	46278	C	GLY	M	68	270.372	103.791	3.926	1.00 78.78	MS13
ATOM	46279	O	GLY	M	68	269.406	103.282	4.497	1.00 78.78	MS13
ATOM	46280	N	GLU	M	69	271.369	104.397	4.574	1.00 91.70	MS13
ATOM	46281	CA	GLU	M	69	271.408	104.507	6.033	1.00 91.70	MS13
ATOM	46282	CB	GLU	M	69	272.495	105.499	6.456	1.00143.77	MS13
ATOM	46283	CG	GLU	M	69	272.725	105.567	7.959	1.00143.77	MS13
ATOM	46284	CD	GLU	M	69	273.891	106.468	8.334	1.00143.77	MS13
ATOM	46285	OE1	GLU	M	69	275.006	106.251	7.818	1.00143.77	MS13
ATOM	46286	OE2	GLU	M	69	273.699	107.393	9.150	1.00143.77	MS13
ATOM	46287	C	GLU	M	69	270.060	104.956	6.586	1.00 91.70	MS13
ATOM	46288	O	GLU	M	69	269.626	104.486	7.638	1.00 91.70	MS13
ATOM	46289	N	LEU	M	70	269.409	105.864	5.864	1.00 84.58	MS13
ATOM	46290	CA	LEU	M	70	268.100	106.397	6.241	1.00 84.58	MS13
ATOM	46291	CB	LEU	M	70	267.791	107.640	5.417	1.00 46.09	MS13
ATOM	46292	CG	LEU	M	70	267.479	108.908	6.200	1.00 46.09	MS13
ATOM	46293	CD1	LEU	M	70	266.928	109.965	5.235	1.00 46.09	MS13
ATOM	46294	CD2	LEU	M	70	266.488	108.594	7.317	1.00 46.09	MS13
ATOM	46295	C	LEU	M	70	266.989	105.373	6.008	1.00 84.58	MS13
ATOM	46296	O	LEU	M	70	266.420	104.833	6.957	1.00 84.58	MS13
ATOM	46297	N	ARG	M	71	266.680	105.136	4.734	1.00 70.09	MS13
ATOM	46298	CA	ARG	M	71	265.658	104.174	4.327	1.00 70.09	MS13
ATOM	46299	CB	ARG	M	71	265.930	103.692	2.903	1.00 65.76	MS13
ATOM	46300	CG	ARG	M	71	266.008	104.796	1.876	1.00 65.76	MS13
ATOM	46301	CD	ARG	M	71	266.377	104.235	0.519	1.00 65.76	MS13
ATOM	46302	NE	ARG	M	71	266.471	105.275	-0.501	1.00 65.76	MS13
ATOM	46303	CZ	ARG	M	71	265.433	105.969	-0.957	1.00 65.76	MS13
ATOM	46304	NH1	ARG	M	71	264.210	105.738	-0.487	1.00 65.76	MS13
ATOM	46305	NH2	ARG	M	71	265.621	106.898	-1.885	1.00 65.76	MS13
ATOM	46306	C	ARG	M	71	265.707	102.982	5.261	1.00 70.09	MS13
ATOM	46307	O	ARG	M	71	264.680	102.408	5.622	1.00 70.09	MS13
ATOM	46308	N	ALA	M	72	266.927	102.614	5.636	1.00 76.83	MS13
ATOM	46309	CA	ALA	M	72	267.162	101.501	6.536	1.00 76.83	MS13
ATOM	46310	CB	ALA	M	72	268.657	101.278	6.708	1.00140.73	MS13
ATOM	46311	C	ALA	M	72	266.527	101.815	7.879	1.00 76.83	MS13
ATOM	46312	O	ALA	M	72	265.669	101.073	8.362	1.00 76.83	MS13
ATOM	46313	N	GLU	M	73	266.960	102.923	8.473	1.00 75.75	MS13
ATOM	46314	CA	GLU	M	73	266.449	103.357	9.767	1.00 75.75	MS13
ATOM	46315	CB	GLU	M	73	266.960	104.760	10.095	1.00144.14	MS13
ATOM	46316	CG	GLU	M	73	266.395	105.336	11.383	1.00144.14	MS13
ATOM	46317	CD	GLU	M	73	267.011	106.676	11.733	1.00144.14	MS13
ATOM	46318	OE1	GLU	M	73	267.015	107.572	10.864	1.00144.14	MS13
ATOM	46319	OE2	GLU	M	73	267.489	106.836	12.877	1.00144.14	MS13
ATOM	46320	C	GLU	M	73	264.932	103.357	9.769	1.00 75.75	MS13
ATOM	46321	O	GLU	M	73	264.300	102.541	10.443	1.00 75.75	MS13
ATOM	46322	N	VAL	M	74	264.355	104.280	9.009	1.00 70.59	MS13
ATOM	46323	CA	VAL	M	74	262.911	104.396	8.910	1.00 70.59	MS13
ATOM	46324	CB	VAL	M	74	262.504	105.143	7.627	1.00 50.41	MS13
ATOM	46325	CG1	VAL	M	74	260.993	105.212	7.522	1.00 50.41	MS13
ATOM	46326	CG2	VAL	M	74	263.080	106.542	7.642	1.00 50.41	MS13
ATOM	46327	C	VAL	M	74	262.273	103.013	8.906	1.00 70.59	MS13
ATOM	46328	O	VAL	M	74	261.713	102.584	9.912	1.00 70.59	MS13
ATOM	46329	N	ALA	M	75	262.373	102.313	7.780	1.00 65.89	MS13
ATOM	46330	CA	ALA	M	75	261.795	100.979	7.659	1.00 65.89	MS13
ATOM	46331	CB	ALA	M	75	262.429	100.238	6.480	1.00106.64	MS13
ATOM	46332	C	ALA	M	75	261.999	100.191	8.952	1.00 65.89	MS13
ATOM	46333	O	ALA	M	75	261.086	99.515	9.430	1.00 65.89	MS13
ATOM	46334	N	ALA	M	76	263.198	100.294	9.518	1.00 94.07	MS13



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ATOM	46335	CA	ALA	M	76	263.520	99.589	10.749	1.00	94.07	MS13
ATOM	46336	CB	ALA	M	76	264.969	99.839	11.133	1.00	110.20	MS13
ATOM	46337	C	ALA	M	76	262.590	100.010	11.880	1.00	94.07	MS13
ATOM	46338	O	ALA	M	76	262.164	99.164	12.668	1.00	94.07	MS13
ATOM	46339	N	ASN	M	77	262.283	101.309	11.960	1.00	80.08	MS13
ATOM	46340	CA	ASN	M	77	261.379	101.841	12.992	1.00	80.08	MS13
ATOM	46341	CB	ASN	M	77	261.222	103.364	12.868	1.00	87.81	MS13
ATOM	46342	CG	ASN	M	77	262.496	104.117	13.193	1.00	87.81	MS13
ATOM	46343	OD1	ASN	M	77	263.140	103.863	14.210	1.00	87.81	MS13
ATOM	46344	ND2	ASN	M	77	262.857	105.065	12.335	1.00	87.81	MS13
ATOM	46345	C	ASN	M	77	259.999	101.203	12.835	1.00	80.08	MS13
ATOM	46346	O	ASN	M	77	259.469	100.587	13.759	1.00	80.08	MS13
ATOM	46347	N	ILE	M	78	259.424	101.365	11.650	1.00	71.96	MS13
ATOM	46348	CA	ILE	M	78	258.116	100.807	11.329	1.00	71.96	MS13
ATOM	46349	CB	ILE	M	78	257.874	100.891	9.805	1.00	54.98	MS13
ATOM	46350	CG2	ILE	M	78	256.450	100.494	9.475	1.00	54.98	MS13
ATOM	46351	CG1	ILE	M	78	258.131	102.323	9.331	1.00	54.98	MS13
ATOM	46352	CD1	ILE	M	78	258.289	102.459	7.831	1.00	54.98	MS13
ATOM	46353	C	ILE	M	78	258.002	99.348	11.800	1.00	71.96	MS13
ATOM	46354	O	ILE	M	78	256.968	98.924	12.313	1.00	71.96	MS13
ATOM	46355	N	LYS	M	79	259.076	98.585	11.636	1.00	71.29	MS13
ATOM	46356	CA	LYS	M	79	259.071	97.191	12.048	1.00	71.29	MS13
ATOM	46357	CB	LYS	M	79	260.326	96.478	11.533	1.00	85.88	MS13
ATOM	46358	CG	LYS	M	79	260.167	94.965	11.394	1.00	85.88	MS13
ATOM	46359	CD	LYS	M	79	260.935	94.205	12.458	1.00	85.88	MS13
ATOM	46360	CE	LYS	M	79	260.718	92.702	12.329	1.00	85.88	MS13
ATOM	46361	NZ	LYS	M	79	261.539	91.935	13.314	1.00	85.88	MS13
ATOM	46362	C	LYS	M	79	259.016	97.122	13.567	1.00	71.29	MS13
ATOM	46363	O	LYS	M	79	258.463	96.182	14.133	1.00	71.29	MS13
ATOM	46364	N	ARG	M	80	259.580	98.131	14.222	1.00	78.82	MS13
ATOM	46365	CA	ARG	M	80	259.595	98.188	15.680	1.00	78.82	MS13
ATOM	46366	CB	ARG	M	80	260.334	99.447	16.154	1.00	119.11	MS13
ATOM	46367	CG	ARG	M	80	260.343	99.636	17.661	1.00	119.11	MS13
ATOM	46368	CD	ARG	M	80	260.525	101.098	18.041	1.00	119.11	MS13
ATOM	46369	NE	ARG	M	80	260.095	101.335	19.418	1.00	119.11	MS13
ATOM	46370	CZ	ARG	M	80	259.861	102.536	19.943	1.00	119.11	MS13
ATOM	46371	NH1	ARG	M	80	260.015	103.631	19.207	1.00	119.11	MS13
ATOM	46372	NH2	ARG	M	80	259.465	102.640	21.205	1.00	119.11	MS13
ATOM	46373	C	ARG	M	80	258.172	98.182	16.246	1.00	78.82	MS13
ATOM	46374	O	ARG	M	80	257.720	97.187	16.834	1.00	78.82	MS13
ATOM	46375	N	LEU	M	81	257.470	99.298	16.066	1.00	93.32	MS13
ATOM	46376	CA	LEU	M	81	256.105	99.426	16.561	1.00	93.32	MS13
ATOM	46377	CB	LEU	M	81	255.555	100.843	16.297	1.00	40.56	MS13
ATOM	46378	CG	LEU	M	81	255.569	101.485	14.909	1.00	40.56	MS13
ATOM	46379	CD1	LEU	M	81	255.735	103.015	15.046	1.00	40.56	MS13
ATOM	46380	CD2	LEU	M	81	256.707	100.921	14.111	1.00	40.56	MS13
ATOM	46381	C	LEU	M	81	255.226	98.373	15.925	1.00	93.32	MS13
ATOM	46382	O	LEU	M	81	254.160	98.043	16.442	1.00	93.32	MS13
ATOM	46383	N	MET	M	82	255.690	97.828	14.808	1.00	65.91	MS13
ATOM	46384	CA	MET	M	82	254.942	96.790	14.119	1.00	65.91	MS13
ATOM	46385	CB	MET	M	82	255.392	96.677	12.670	1.00	110.47	MS13
ATOM	46386	CG	MET	M	82	254.514	95.765	11.848	1.00	110.47	MS13
ATOM	46387	SD	MET	M	82	255.000	95.789	10.135	1.00	110.47	MS13
ATOM	46388	CE	MET	M	82	254.910	97.545	9.794	1.00	110.47	MS13
ATOM	46389	C	MET	M	82	255.117	95.440	14.807	1.00	65.91	MS13
ATOM	46390	O	MET	M	82	254.376	94.497	14.533	1.00	65.91	MS13
ATOM	46391	N	ASP	M	83	256.108	95.344	15.686	1.00	105.43	MS13
ATOM	46392	CA	ASP	M	83	256.350	94.105	16.408	1.00	105.43	MS13
ATOM	46393	CB	ASP	M	83	257.838	93.854	16.557	1.00	98.76	MS13
ATOM	46394	CG	ASP	M	83	258.487	93.516	15.246	1.00	98.76	MS13
ATOM	46395	OD1	ASP	M	83	258.068	92.525	14.616	1.00	98.76	MS13
ATOM	46396	OD2	ASP	M	83	259.411	94.240	14.837	1.00	98.76	MS13
ATOM	46397	C	ASP	M	83	255.708	94.214	17.761	1.00	105.43	MS13
ATOM	46398	O	ASP	M	83	254.956	93.335	18.174	1.00	105.43	MS13
ATOM	46399	N	ILE	M	84	256.011	95.300	18.458	1.00	90.23	MS13
ATOM	46400	CA	ILE	M	84	255.412	95.520	19.756	1.00	90.23	MS13
ATOM	46401	CB	ILE	M	84	256.052	96.742	20.455	1.00	59.11	MS13
ATOM	46402	CG2	ILE	M	84	257.529	96.783	20.122	1.00	59.11	MS13
ATOM	46403	CG1	ILE	M	84	255.439	98.054	19.965	1.00	59.11	MS13
ATOM	46404	CD1	ILE	M	84	256.055	99.294	20.607	1.00	59.11	MS13
ATOM	46405	C	ILE	M	84	253.936	95.756	19.426	1.00	90.23	MS13
ATOM	46406	O	ILE	M	84	253.614	96.449	18.456	1.00	90.23	MS13
ATOM	46407	N	GLY	M	85	253.050	95.149	20.210	1.00	84.17	MS13
ATOM	46408	CA	GLY	M	85	251.616	95.270	19.975	1.00	84.17	MS13
ATOM	46409	C	GLY	M	85	251.071	96.607	19.499	1.00	84.17	MS13
ATOM	46410	O	GLY	M	85	249.981	96.663	18.930	1.00	84.17	MS13
ATOM	46411	N	CYS	M	86	251.830	97.673	19.736	1.00	67.38	MS13



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ATOM	46412	CA	CYS	M	86	251.446	99.025	19.364	1.00	67.38	MS13
ATOM	46413	CB	CYS	M	86	252.667	99.799	18.867	1.00	100.36	MS13
ATOM	46414	SG	CYS	M	86	252.311	101.498	18.347	1.00	100.36	MS13
ATOM	46415	C	CYS	M	86	250.356	99.079	18.310	1.00	67.38	MS13
ATOM	46416	O	CYS	M	86	250.491	98.492	17.237	1.00	67.38	MS13
ATOM	46417	N	TYR	M	87	249.271	99.777	18.635	1.00	73.68	MS13
ATOM	46418	CA	TYR	M	87	248.142	99.947	17.723	1.00	73.68	MS13
ATOM	46419	CB	TYR	M	87	247.119	100.909	18.338	1.00	79.69	MS13
ATOM	46420	CG	TYR	M	87	246.145	101.525	17.350	1.00	79.69	MS13
ATOM	46421	CD1	TYR	M	87	245.167	100.750	16.718	1.00	79.69	MS13
ATOM	46422	CE1	TYR	M	87	244.266	101.318	15.817	1.00	79.69	MS13
ATOM	46423	CD2	TYR	M	87	246.200	102.887	17.051	1.00	79.69	MS13
ATOM	46424	CE2	TYR	M	87	245.308	103.463	16.150	1.00	79.69	MS13
ATOM	46425	CZ	TYR	M	87	244.344	102.676	15.540	1.00	79.69	MS13
ATOM	46426	OH	TYR	M	87	243.451	103.255	14.669	1.00	79.69	MS13
ATOM	46427	C	TYR	M	87	248.688	100.544	16.439	1.00	73.68	MS13
ATOM	46428	O	TYR	M	87	248.502	100.008	15.345	1.00	73.68	MS13
ATOM	46429	N	ARG	M	88	249.365	101.672	16.601	1.00	69.35	MS13
ATOM	46430	CA	ARG	M	88	249.969	102.384	15.492	1.00	69.35	MS13
ATOM	46431	CB	ARG	M	88	250.982	103.384	16.035	1.00	94.44	MS13
ATOM	46432	CG	ARG	M	88	251.568	104.297	15.004	1.00	94.44	MS13
ATOM	46433	CD	ARG	M	88	252.764	104.994	15.567	1.00	94.44	MS13
ATOM	46434	NE	ARG	M	88	253.124	106.142	14.757	1.00	94.44	MS13
ATOM	46435	CZ	ARG	M	88	254.240	106.838	14.918	1.00	94.44	MS13
ATOM	46436	NH1	ARG	M	88	255.104	106.487	15.862	1.00	94.44	MS13
ATOM	46437	NH2	ARG	M	88	254.486	107.895	14.148	1.00	94.44	MS13
ATOM	46438	C	ARG	M	88	250.667	101.390	14.572	1.00	69.35	MS13
ATOM	46439	O	ARG	M	88	250.700	101.564	13.352	1.00	69.35	MS13
ATOM	46440	N	GLY	M	89	251.233	100.347	15.168	1.00	71.29	MS13
ATOM	46441	CA	GLY	M	89	251.916	99.343	14.379	1.00	71.29	MS13
ATOM	46442	C	GLY	M	89	250.919	98.585	13.532	1.00	71.29	MS13
ATOM	46443	O	GLY	M	89	251.052	98.514	12.309	1.00	71.29	MS13
ATOM	46444	N	LEU	M	90	249.913	98.023	14.192	1.00	58.39	MS13
ATOM	46445	CA	LEU	M	90	248.867	97.263	13.520	1.00	58.39	MS13
ATOM	46446	CB	LEU	M	90	247.668	97.081	14.452	1.00	85.58	MS13
ATOM	46447	CG	LEU	M	90	247.992	96.531	15.843	1.00	85.58	MS13
ATOM	46448	CD1	LEU	M	90	246.707	96.412	16.662	1.00	85.58	MS13
ATOM	46449	CD2	LEU	M	90	248.690	95.181	15.708	1.00	85.58	MS13
ATOM	46450	C	LEU	M	90	248.426	97.992	12.259	1.00	58.39	MS13
ATOM	46451	O	LEU	M	90	248.220	97.373	11.218	1.00	58.39	MS13
ATOM	46452	N	ARG	M	91	248.290	99.310	12.359	1.00	59.96	MS13
ATOM	46453	CA	ARG	M	91	247.881	100.117	11.220	1.00	59.96	MS13
ATOM	46454	CB	ARG	M	91	247.876	101.595	11.601	1.00	72.81	MS13
ATOM	46455	CG	ARG	M	91	247.026	101.891	12.815	1.00	72.81	MS13
ATOM	46456	CD	ARG	M	91	245.605	101.422	12.595	1.00	72.81	MS13
ATOM	46457	NE	ARG	M	91	244.908	102.224	11.596	1.00	72.81	MS13
ATOM	46458	CZ	ARG	M	91	243.687	101.947	11.148	1.00	72.81	MS13
ATOM	46459	NH1	ARG	M	91	243.033	100.886	11.610	1.00	72.81	MS13
ATOM	46460	NH2	ARG	M	91	243.117	102.734	10.243	1.00	72.81	MS13
ATOM	46461	C	ARG	M	91	248.796	99.889	10.014	1.00	59.96	MS13
ATOM	46462	O	ARG	M	91	248.330	99.746	8.883	1.00	59.96	MS13
ATOM	46463	N	HIS	M	92	250.100	99.863	10.242	1.00	64.33	MS13
ATOM	46464	CA	HIS	M	92	250.998	99.630	9.133	1.00	64.33	MS13
ATOM	46465	CB	HIS	M	92	252.443	99.761	9.592	1.00	57.34	MS13
ATOM	46466	CG	HIS	M	92	252.904	101.180	9.694	1.00	57.34	MS13
ATOM	46467	CD2	HIS	M	92	253.104	101.980	10.769	1.00	57.34	MS13
ATOM	46468	ND1	HIS	M	92	253.173	101.954	8.585	1.00	57.34	MS13
ATOM	46469	CE1	HIS	M	92	253.518	103.170	8.972	1.00	57.34	MS13
ATOM	46470	NE2	HIS	M	92	253.485	103.212	10.292	1.00	57.34	MS13
ATOM	46471	C	HIS	M	92	250.722	98.249	8.550	1.00	64.33	MS13
ATOM	46472	O	HIS	M	92	250.573	98.115	7.335	1.00	64.33	MS13
ATOM	46473	N	ARG	M	93	250.625	97.235	9.413	1.00	72.06	MS13
ATOM	46474	CA	ARG	M	93	250.354	95.858	8.977	1.00	72.06	MS13
ATOM	46475	CB	ARG	M	93	250.126	94.936	10.171	1.00	121.06	MS13
ATOM	46476	CG	ARG	M	93	251.277	94.783	11.120	1.00	121.06	MS13
ATOM	46477	CD	ARG	M	93	250.804	93.962	12.293	1.00	121.06	MS13
ATOM	46478	NE	ARG	M	93	251.833	93.756	13.302	1.00	121.06	MS13
ATOM	46479	CZ	ARG	M	93	251.619	93.116	14.447	1.00	121.06	MS13
ATOM	46480	NH1	ARG	M	93	250.414	92.628	14.716	1.00	121.06	MS13
ATOM	46481	NH2	ARG	M	93	252.605	92.958	15.322	1.00	121.06	MS13
ATOM	46482	C	ARG	M	93	249.102	95.800	8.114	1.00	72.06	MS13
ATOM	46483	O	ARG	M	93	249.132	95.298	6.991	1.00	72.06	MS13
ATOM	46484	N	ARG	M	94	247.997	96.298	8.666	1.00	65.10	MS13
ATOM	46485	CA	ARG	M	94	246.719	96.313	7.971	1.00	65.10	MS13
ATOM	46486	CB	ARG	M	94	245.625	96.880	8.881	1.00	122.54	MS13
ATOM	46487	CG	ARG	M	94	245.157	95.926	9.970	1.00	122.54	MS13
ATOM	46488	CD	ARG	M	94	244.471	94.726	9.352	1.00	122.54	MS13



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ATOM	46489	NE	ARG	M	94	243.962	93.789	10.348	1.00122.54	MS13
ATOM	46490	CZ	ARG	M	94	243.333	92.652	10.050	1.00122.54	MS13
ATOM	46491	NH1	ARG	M	94	243.133	92.309	8.782	1.00122.54	MS13
ATOM	46492	NH2	ARG	M	94	242.904	91.853	11.020	1.00122.54	MS13
ATOM	46493	C	ARG	M	94	246.839	97.157	6.719	1.00 65.10	MS13
ATOM	46494	O	ARG	M	94	246.097	96.968	5.760	1.00 65.10	MS13
ATOM	46495	N	GLY	M	95	247.791	98.081	6.731	1.00 53.23	MS13
ATOM	46496	CA	GLY	M	95	247.987	98.945	5.587	1.00 53.23	MS13
ATOM	46497	C	GLY	M	95	246.977	100.075	5.560	1.00 53.23	MS13
ATOM	46498	O	GLY	M	95	246.701	100.633	4.501	1.00 53.23	MS13
ATOM	46499	N	LEU	M	96	246.411	100.405	6.720	1.00 61.92	MS13
ATOM	46500	CA	LEU	M	96	245.439	101.494	6.827	1.00 61.92	MS13
ATOM	46501	CB	LEU	M	96	244.294	101.095	7.739	1.00 58.98	MS13
ATOM	46502	CG	LEU	M	96	243.469	99.900	7.291	1.00 58.98	MS13
ATOM	46503	CD1	LEU	M	96	242.434	99.584	8.359	1.00 58.98	MS13
ATOM	46504	CD2	LEU	M	96	242.800	100.214	5.963	1.00 58.98	MS13
ATOM	46505	C	LEU	M	96	246.117	102.723	7.413	1.00 61.92	MS13
ATOM	46506	O	LEU	M	96	247.005	102.599	8.255	1.00 61.92	MS13
ATOM	46507	N	PRO	M	97	245.696	103.928	6.994	1.00 53.17	MS13
ATOM	46508	CD	PRO	M	97	244.409	104.223	6.348	1.00 55.31	MS13
ATOM	46509	CA	PRO	M	97	246.308	105.157	7.518	1.00 53.17	MS13
ATOM	46510	CB	PRO	M	97	245.295	106.239	7.154	1.00 55.31	MS13
ATOM	46511	CG	PRO	M	97	243.994	105.477	7.068	1.00 55.31	MS13
ATOM	46512	C	PRO	M	97	246.572	105.074	9.019	1.00 53.17	MS13
ATOM	46513	O	PRO	M	97	245.740	104.593	9.799	1.00 53.17	MS13
ATOM	46514	N	VAL	M	98	247.749	105.536	9.413	1.00 83.68	MS13
ATOM	46515	CA	VAL	M	98	248.157	105.487	10.804	1.00 83.68	MS13
ATOM	46516	CB	VAL	M	98	249.680	105.359	10.908	1.00 98.23	MS13
ATOM	46517	CG1	VAL	M	98	250.076	105.143	12.348	1.00 98.23	MS13
ATOM	46518	CG2	VAL	M	98	250.169	104.217	10.026	1.00 98.23	MS13
ATOM	46519	C	VAL	M	98	247.733	106.705	11.600	1.00 83.68	MS13
ATOM	46520	O	VAL	M	98	247.110	106.581	12.650	1.00 83.68	MS13
ATOM	46521	N	ARG	M	99	248.069	107.880	11.082	1.00 54.37	MS13
ATOM	46522	CA	ARG	M	99	247.772	109.150	11.741	1.00 54.37	MS13
ATOM	46523	CB	ARG	M	99	248.489	110.268	10.994	1.00 78.84	MS13
ATOM	46524	CG	ARG	M	99	249.904	109.873	10.671	1.00 78.84	MS13
ATOM	46525	CD	ARG	M	99	250.795	111.048	10.398	1.00 78.84	MS13
ATOM	46526	NE	ARG	M	99	252.166	110.572	10.316	1.00 78.84	MS13
ATOM	46527	CZ	ARG	M	99	253.218	111.339	10.077	1.00 78.84	MS13
ATOM	46528	NH1	ARG	M	99	253.066	112.646	9.893	1.00 78.84	MS13
ATOM	46529	NH2	ARG	M	99	254.422	110.790	10.019	1.00 78.84	MS13
ATOM	46530	C	ARG	M	99	246.307	109.524	11.961	1.00 54.37	MS13
ATOM	46531	O	ARG	M	99	245.856	110.590	11.536	1.00 54.37	MS13
ATOM	46532	N	GLY	M	100	245.592	108.639	12.650	1.00 79.41	MS13
ATOM	46533	CA	GLY	M	100	244.190	108.838	12.981	1.00 79.41	MS13
ATOM	46534	C	GLY	M	100	243.301	109.633	12.043	1.00 79.41	MS13
ATOM	46535	O	GLY	M	100	243.000	110.798	12.300	1.00 79.41	MS13
ATOM	46536	N	GLN	M	101	242.867	109.007	10.957	1.00 77.60	MS13
ATOM	46537	CA	GLN	M	101	241.986	109.680	10.021	1.00 77.60	MS13
ATOM	46538	CB	GLN	M	101	242.703	109.929	8.696	1.00 59.39	MS13
ATOM	46539	CG	GLN	M	101	243.970	110.755	8.836	1.00 59.39	MS13
ATOM	46540	CD	GLN	M	101	245.238	109.981	8.486	1.00 59.39	MS13
ATOM	46541	OE1	GLN	M	101	245.493	108.894	9.022	1.00 59.39	MS13
ATOM	46542	NE2	GLN	M	101	246.045	110.545	7.585	1.00 59.39	MS13
ATOM	46543	C	GLN	M	101	240.751	108.815	9.806	1.00 77.60	MS13
ATOM	46544	O	GLN	M	101	240.475	107.889	10.591	1.00 77.60	MS13
ATOM	46545	N	ARG	M	102	240.002	109.125	8.754	1.00 75.54	MS13
ATOM	46546	CA	ARG	M	102	238.794	108.372	8.443	1.00 75.54	MS13
ATOM	46547	CB	ARG	M	102	237.731	109.292	7.848	1.00 82.97	MS13
ATOM	46548	CG	ARG	M	102	238.255	110.195	6.752	1.00 82.97	MS13
ATOM	46549	CD	ARG	M	102	237.117	110.767	5.917	1.00 82.97	MS13
ATOM	46550	NE	ARG	M	102	236.057	111.384	6.715	1.00 82.97	MS13
ATOM	46551	CZ	ARG	M	102	234.837	110.874	6.874	1.00 82.97	MS13
ATOM	46552	NH1	ARG	M	102	234.506	109.725	6.294	1.00 82.97	MS13
ATOM	46553	NH2	ARG	M	102	233.939	111.526	7.602	1.00 82.97	MS13
ATOM	46554	C	ARG	M	102	239.112	107.289	7.444	1.00 75.54	MS13
ATOM	46555	O	ARG	M	102	239.855	107.528	6.501	1.00 75.54	MS13
ATOM	46556	N	THR	M	103	238.561	106.098	7.644	1.00 56.82	MS13
ATOM	46557	CA	THR	M	103	238.807	105.021	6.700	1.00 56.82	MS13
ATOM	46558	CB	THR	M	103	239.490	103.815	7.368	1.00 86.47	MS13
ATOM	46559	OG1	THR	M	103	238.584	103.199	8.288	1.00 86.47	MS13
ATOM	46560	CG2	THR	M	103	240.741	104.257	8.106	1.00 86.47	MS13
ATOM	46561	C	THR	M	103	237.485	104.575	6.083	1.00 56.82	MS13
ATOM	46562	O	THR	M	103	237.337	103.425	5.634	1.00 56.82	MS13
ATOM	46563	N	ARG	M	104	236.526	105.497	6.066	1.00 43.96	MS13
ATOM	46564	CA	ARG	M	104	235.214	105.212	5.508	1.00 43.96	MS13
ATOM	46565	CB	ARG	M	104	234.120	105.885	6.321	1.00 78.42	MS13



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ATOM	46566	CG	ARG	M	104	232.751	105.706	5.711	1.00	78.42	MS13
ATOM	46567	CD	ARG	M	104	231.667	106.163	6.654	1.00	78.42	MS13
ATOM	46568	NE	ARG	M	104	230.353	106.070	6.036	1.00	78.42	MS13
ATOM	46569	CZ	ARG	M	104	229.220	106.371	6.655	1.00	78.42	MS13
ATOM	46570	NH1	ARG	M	104	229.246	106.783	7.917	1.00	78.42	MS13
ATOM	46571	NH2	ARG	M	104	228.064	106.268	6.012	1.00	78.42	MS13
ATOM	46572	C	ARG	M	104	235.158	105.718	4.092	1.00	43.96	MS13
ATOM	46573	O	ARG	M	104	234.417	105.204	3.264	1.00	43.96	MS13
ATOM	46574	N	THR	M	105	235.929	106.756	3.829	1.00	69.95	MS13
ATOM	46575	CA	THR	M	105	236.003	107.331	2.503	1.00	69.95	MS13
ATOM	46576	CB	THR	M	105	234.945	108.465	2.298	1.00	50.11	MS13
ATOM	46577	OG1	THR	M	105	235.032	109.422	3.357	1.00	50.11	MS13
ATOM	46578	CG2	THR	M	105	233.534	107.882	2.291	1.00	50.11	MS13
ATOM	46579	C	THR	M	105	237.427	107.850	2.404	1.00	69.95	MS13
ATOM	46580	O	THR	M	105	238.112	107.957	3.414	1.00	69.95	MS13
ATOM	46581	N	ASN	M	106	237.888	108.145	1.198	1.00	67.56	MS13
ATOM	46582	CA	ASN	M	106	239.253	108.616	1.023	1.00	67.56	MS13
ATOM	46583	CB	ASN	M	106	239.444	109.939	1.751	1.00	53.10	MS13
ATOM	46584	CG	ASN	M	106	238.348	110.925	1.435	1.00	53.10	MS13
ATOM	46585	OD1	ASN	M	106	237.801	110.934	0.331	1.00	53.10	MS13
ATOM	46586	ND2	ASN	M	106	238.026	111.774	2.398	1.00	53.10	MS13
ATOM	46587	C	ASN	M	106	240.196	107.556	1.586	1.00	67.56	MS13
ATOM	46588	O	ASN	M	106	239.795	106.409	1.778	1.00	67.56	MS13
ATOM	46589	N	ALA	M	107	241.440	107.939	1.851	1.00	47.95	MS13
ATOM	46590	CA	ALA	M	107	242.440	107.013	2.383	1.00	47.95	MS13
ATOM	46591	CB	ALA	M	107	241.838	106.157	3.502	1.00	25.58	MS13
ATOM	46592	C	ALA	M	107	242.932	106.122	1.258	1.00	47.95	MS13
ATOM	46593	O	ALA	M	107	243.450	105.028	1.486	1.00	47.95	MS13
ATOM	46594	N	ARG	M	108	242.756	106.606	0.036	1.00	80.38	MS13
ATOM	46595	CA	ARG	M	108	243.169	105.865	-1.142	1.00	80.38	MS13
ATOM	46596	CB	ARG	M	108	242.658	106.557	-2.411	1.00	47.59	MS13
ATOM	46597	CG	ARG	M	108	241.130	106.691	-2.505	1.00	47.59	MS13
ATOM	46598	CD	ARG	M	108	240.337	105.445	-2.043	1.00	47.59	MS13
ATOM	46599	NE	ARG	M	108	241.033	104.173	-2.234	1.00	47.59	MS13
ATOM	46600	CZ	ARG	M	108	240.489	102.981	-1.995	1.00	47.59	MS13
ATOM	46601	NH1	ARG	M	108	239.234	102.893	-1.566	1.00	47.59	MS13
ATOM	46602	NH2	ARG	M	108	241.202	101.875	-2.162	1.00	47.59	MS13
ATOM	46603	C	ARG	M	108	244.685	105.737	-1.196	1.00	80.38	MS13
ATOM	46604	O	ARG	M	108	245.216	104.668	-1.485	1.00	80.38	MS13
ATOM	46605	N	THR	M	109	245.374	106.837	-0.913	1.00	45.37	MS13
ATOM	46606	CA	THR	M	109	246.829	106.850	-0.925	1.00	45.37	MS13
ATOM	46607	CB	THR	M	109	247.369	108.188	-0.383	1.00	40.52	MS13
ATOM	46608	OG1	THR	M	109	247.300	109.181	-1.411	1.00	40.52	MS13
ATOM	46609	CG2	THR	M	109	248.795	108.055	0.049	1.00	40.52	MS13
ATOM	46610	C	THR	M	109	247.373	105.704	-0.093	1.00	45.37	MS13
ATOM	46611	O	THR	M	109	248.312	105.018	-0.487	1.00	45.37	MS13
ATOM	46612	N	ARG	M	110	246.769	105.483	1.063	1.00	55.44	MS13
ATOM	46613	CA	ARG	M	110	247.224	104.410	1.922	1.00	55.44	MS13
ATOM	46614	CB	ARG	M	110	246.893	104.734	3.380	1.00	65.71	MS13
ATOM	46615	CG	ARG	M	110	247.767	103.994	4.364	1.00	65.71	MS13
ATOM	46616	CD	ARG	M	110	249.022	104.783	4.705	1.00	65.71	MS13
ATOM	46617	NE	ARG	M	110	250.093	103.947	5.248	1.00	65.71	MS13
ATOM	46618	CZ	ARG	M	110	249.913	102.899	6.053	1.00	65.71	MS13
ATOM	46619	NH1	ARG	M	110	248.699	102.526	6.423	1.00	65.71	MS13
ATOM	46620	NH2	ARG	M	110	250.957	102.219	6.510	1.00	65.71	MS13
ATOM	46621	C	ARG	M	110	246.594	103.071	1.528	1.00	55.44	MS13
ATOM	46622	O	ARG	M	110	247.156	102.025	1.816	1.00	55.44	MS13
ATOM	46623	N	LYS	M	111	245.442	103.105	0.857	1.00	67.24	MS13
ATOM	46624	CA	LYS	M	111	244.739	101.879	0.458	1.00	67.24	MS13
ATOM	46625	CB	LYS	M	111	243.225	102.058	0.650	1.00	60.50	MS13
ATOM	46626	CG	LYS	M	111	242.776	102.207	2.100	1.00	60.50	MS13
ATOM	46627	CD	LYS	M	111	241.536	101.345	2.415	1.00	60.50	MS13
ATOM	46628	CE	LYS	M	111	240.288	101.781	1.650	1.00	60.50	MS13
ATOM	46629	NZ	LYS	M	111	239.063	101.076	2.122	1.00	60.50	MS13
ATOM	46630	C	LYS	M	111	244.996	101.361	-0.966	1.00	67.24	MS13
ATOM	46631	O	LYS	M	111	244.792	100.181	-1.255	1.00	67.24	MS13
ATOM	46632	N	GLY	M	112	245.436	102.230	-1.861	1.00	59.37	MS13
ATOM	46633	CA	GLY	M	112	245.686	101.788	-3.220	1.00	59.37	MS13
ATOM	46634	C	GLY	M	112	244.510	102.169	-4.086	1.00	59.37	MS13
ATOM	46635	O	GLY	M	112	243.838	103.153	-3.784	1.00	59.37	MS13
ATOM	46636	N	PRO	M	113	244.234	101.424	-5.169	1.00	76.90	MS13
ATOM	46637	CD	PRO	M	113	245.178	100.492	-5.799	1.00	88.39	MS13
ATOM	46638	CA	PRO	M	113	243.110	101.706	-6.076	1.00	76.90	MS13
ATOM	46639	CB	PRO	M	113	243.527	101.011	-7.371	1.00	88.39	MS13
ATOM	46640	CG	PRO	M	113	245.032	100.862	-7.236	1.00	88.39	MS13
ATOM	46641	C	PRO	M	113	241.796	101.145	-5.528	1.00	76.90	MS13
ATOM	46642	O	PRO	M	113	241.806	100.192	-4.742	1.00	76.90	MS13



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ATOM	46643	N	ARG	M	114	240.669	101.721	-5.943	1.00	76.23	MS13
ATOM	46644	CA	ARG	M	114	239.375	101.247	-5.459	1.00	76.23	MS13
ATOM	46645	CB	ARG	M	114	238.243	102.159	-5.933	1.00	74.01	MS13
ATOM	46646	CG	ARG	M	114	238.041	103.386	-5.072	1.00	74.01	MS13
ATOM	46647	CD	ARG	M	114	236.809	104.162	-5.498	1.00	74.01	MS13
ATOM	46648	NE	ARG	M	114	237.125	105.575	-5.673	1.00	74.01	MS13
ATOM	46649	CZ	ARG	M	114	237.408	106.413	-4.679	1.00	74.01	MS13
ATOM	46650	NH1	ARG	M	114	237.400	105.981	-3.421	1.00	74.01	MS13
ATOM	46651	NH2	ARG	M	114	237.731	107.677	-4.951	1.00	74.01	MS13
ATOM	46652	C	ARG	M	114	239.082	99.819	-5.885	1.00	76.23	MS13
ATOM	46653	O	ARG	M	114	239.113	99.493	-7.068	1.00	76.23	MS13
ATOM	46654	N	LYS	M	115	238.788	98.973	-4.907	1.00	57.47	MS13
ATOM	46655	CA	LYS	M	115	238.494	97.571	-5.161	1.00	57.47	MS13
ATOM	46656	CB	LYS	M	115	239.190	96.719	-4.109	1.00	87.23	MS13
ATOM	46657	CG	LYS	M	115	240.626	97.133	-3.857	1.00	87.23	MS13
ATOM	46658	CD	LYS	M	115	241.102	96.687	-2.484	1.00	87.23	MS13
ATOM	46659	CE	LYS	M	115	240.922	95.195	-2.310	1.00	87.23	MS13
ATOM	46660	NZ	LYS	M	115	241.504	94.462	-3.472	1.00	87.23	MS13
ATOM	46661	C	LYS	M	115	236.989	97.337	-5.090	1.00	57.47	MS13
ATOM	46662	O	LYS	M	115	236.516	96.605	-4.216	1.00	57.47	MS13
ATOM	46663	N	THR	M	116	236.246	97.954	-6.010	1.00	58.11	MS13
ATOM	46664	CA	THR	M	116	234.783	97.846	-6.065	1.00	58.11	MS13
ATOM	46665	CB	THR	M	116	234.268	98.295	-7.429	1.00	80.28	MS13
ATOM	46666	OG1	THR	M	116	234.655	99.659	-7.649	1.00	80.28	MS13
ATOM	46667	CG2	THR	M	116	232.752	98.181	-7.488	1.00	80.28	MS13
ATOM	46668	C	THR	M	116	234.218	96.459	-5.770	1.00	58.11	MS13
ATOM	46669	O	THR	M	116	234.816	95.450	-6.132	1.00	58.11	MS13
ATOM	46670	N	VAL	M	117	233.059	96.420	-5.116	1.00	71.05	MS13
ATOM	46671	CA	VAL	M	117	232.394	95.164	-4.747	1.00	71.05	MS13
ATOM	46672	CB	VAL	M	117	232.394	94.970	-3.201	1.00	61.44	MS13
ATOM	46673	CG1	VAL	M	117	231.848	93.593	-2.836	1.00	61.44	MS13
ATOM	46674	CG2	VAL	M	117	233.804	95.165	-2.645	1.00	61.44	MS13
ATOM	46675	C	VAL	M	117	230.939	95.193	-5.220	1.00	71.05	MS13
ATOM	46676	O	VAL	M	117	230.550	96.066	-5.994	1.00	71.05	MS13
ATOM	46677	N	ALA	M	118	230.143	94.235	-4.758	1.00	118.19	MS13
ATOM	46678	CA	ALA	M	118	228.727	94.185	-5.095	1.00	118.19	MS13
ATOM	46679	CB	ALA	M	118	228.203	92.786	-4.893	1.00	55.20	MS13
ATOM	46680	C	ALA	M	118	228.053	95.154	-4.121	1.00	118.19	MS13
ATOM	46681	O	ALA	M	118	228.741	95.791	-3.319	1.00	118.19	MS13
ATOM	46682	N	GLY	M	119	226.727	95.276	-4.169	1.00	102.13	MS13
ATOM	46683	CA	GLY	M	119	226.076	96.195	-3.248	1.00	102.13	MS13
ATOM	46684	C	GLY	M	119	224.559	96.197	-3.191	1.00	102.13	MS13
ATOM	46685	O	GLY	M	119	223.897	95.337	-3.769	1.00	102.13	MS13
ATOM	46686	N	LYS	M	120	224.012	97.178	-2.478	1.00	197.98	MS13
ATOM	46687	CA	LYS	M	120	222.568	97.332	-2.326	1.00	197.98	MS13
ATOM	46688	CB	LYS	M	120	222.198	97.320	-0.841	1.00	137.63	MS13
ATOM	46689	CG	LYS	M	120	220.722	97.580	-0.570	1.00	137.63	MS13
ATOM	46690	CD	LYS	M	120	220.464	97.880	0.901	1.00	137.63	MS13
ATOM	46691	CE	LYS	M	120	219.003	98.229	1.152	1.00	137.63	MS13
ATOM	46692	NZ	LYS	M	120	218.774	98.681	2.554	1.00	137.63	MS13
ATOM	46693	C	LYS	M	120	222.124	98.657	-2.956	1.00	197.98	MS13
ATOM	46694	O	LYS	M	120	222.313	99.725	-2.362	1.00	197.98	MS13
ATOM	46695	N	LYS	M	121	221.534	98.585	-4.151	1.00	197.98	MS13
ATOM	46696	CA	LYS	M	121	221.076	99.781	-4.868	1.00	197.98	MS13
ATOM	46697	CB	LYS	M	121	220.653	99.441	-6.312	1.00	117.59	MS13
ATOM	46698	CG	LYS	M	121	221.779	99.037	-7.269	1.00	117.59	MS13
ATOM	46699	CD	LYS	M	121	222.213	97.595	-7.063	1.00	117.59	MS13
ATOM	46700	CE	LYS	M	121	223.270	97.185	-8.073	1.00	117.59	MS13
ATOM	46701	NZ	LYS	M	121	223.734	95.789	-7.835	1.00	117.59	MS13
ATOM	46702	C	LYS	M	121	219.926	100.525	-4.183	1.00	197.98	MS13
ATOM	46703	O	LYS	M	121	220.127	101.619	-3.654	1.00	197.98	MS13
ATOM	46704	N	LYS	M	122	218.727	99.938	-4.200	1.00	197.60	MS13
ATOM	46705	CA	LYS	M	122	217.557	100.573	-3.592	1.00	197.60	MS13
ATOM	46706	CB	LYS	M	122	216.292	99.739	-3.823	1.00	125.99	MS13
ATOM	46707	CG	LYS	M	122	215.026	100.436	-3.336	1.00	125.99	MS13
ATOM	46708	CD	LYS	M	122	214.938	101.846	-3.909	1.00	125.99	MS13
ATOM	46709	CE	LYS	M	122	213.808	102.641	-3.284	1.00	125.99	MS13
ATOM	46710	NZ	LYS	M	122	213.805	104.049	-3.769	1.00	125.99	MS13
ATOM	46711	C	LYS	M	122	217.733	100.840	-2.102	1.00	197.60	MS13
ATOM	46712	O	LYS	M	122	217.208	100.124	-1.245	1.00	197.60	MS13
ATOM	46713	N	ALA	M	123	218.482	101.901	-1.827	1.00	197.98	MS13
ATOM	46714	CA	ALA	M	123	218.804	102.374	-0.488	1.00	197.98	MS13
ATOM	46715	CB	ALA	M	123	219.589	101.310	0.287	1.00	84.98	MS13
ATOM	46716	C	ALA	M	123	219.686	103.586	-0.766	1.00	197.98	MS13
ATOM	46717	O	ALA	M	123	220.913	103.485	-0.714	1.00	197.98	MS13
ATOM	46718	N	PRO	M	124	219.067	104.745	-1.080	1.00	197.59	MS13
ATOM	46719	CD	PRO	M	124	217.618	104.992	-0.924	1.00	189.84	MS13



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ATOM	46720	CA	PRO	M	124	219.765	105.999	-1.384	1.00197.59	MS13
ATOM	46721	CB	PRO	M	124	218.763	107.057	-0.934	1.00189.84	MS13
ATOM	46722	CG	PRO	M	124	217.470	106.447	-1.369	1.00189.84	MS13
ATOM	46723	C	PRO	M	124	221.143	106.163	-0.742	1.00197.59	MS13
ATOM	46724	O	PRO	M	124	221.313	106.919	0.221	1.00197.59	MS13
ATOM	46725	N	ARG	M	125	222.126	105.448	-1.293	1.00197.98	MS13
ATOM	46726	CA	ARG	M	125	223.493	105.516	-0.794	1.00197.98	MS13
ATOM	46727	CB	ARG	M	125	224.349	104.356	-1.355	1.00118.20	MS13
ATOM	46728	CG	ARG	M	125	224.242	104.104	-2.856	1.00118.20	MS13
ATOM	46729	CD	ARG	M	125	224.891	105.211	-3.676	1.00118.20	MS13
ATOM	46730	NE	ARG	M	125	224.763	104.975	-5.112	1.00118.20	MS13
ATOM	46731	CZ	ARG	M	125	223.616	105.018	-5.784	1.00118.20	MS13
ATOM	46732	NH1	ARG	M	125	222.483	105.294	-5.153	1.00118.20	MS13
ATOM	46733	NH2	ARG	M	125	223.602	104.777	-7.088	1.00118.20	MS13
ATOM	46734	C	ARG	M	125	224.094	106.873	-1.144	1.00197.98	MS13
ATOM	46735	O	ARG	M	125	225.298	107.094	-1.002	1.00197.98	MS13
ATOM	46736	N	LYS	M	126	223.233	107.779	-1.604	1.00185.15	MS13
ATOM	46737	CA	LYS	M	126	223.653	109.126	-1.954	1.00185.15	MS13
ATOM	46738	CB	LYS	M	126	222.484	109.948	-2.511	1.00111.93	MS13
ATOM	46739	CG	LYS	M	126	221.950	109.508	-3.873	1.00111.93	MS13
ATOM	46740	CD	LYS	M	126	220.982	110.561	-4.428	1.00111.93	MS13
ATOM	46741	CE	LYS	M	126	220.475	110.220	-5.828	1.00111.93	MS13
ATOM	46742	NZ	LYS	M	126	219.568	111.281	-6.372	1.00111.93	MS13
ATOM	46743	C	LYS	M	126	224.160	109.776	-0.680	1.00185.15	MS13
ATOM	46744	O	LYS	M	126	224.911	110.761	-0.793	1.00185.15	MS13
ATOM	46745	OXT	LYS	M	126	223.776	109.306	0.414	1.00140.90	MS13
TER	46745	LYS	M	126						MS13
ATOM	46746	CB	ALA	N	2	216.232	118.857	27.966	1.00 53.44	NS14
ATOM	46747	C	ALA	N	2	216.298	116.850	29.495	1.00 93.13	NS14
ATOM	46748	O	ALA	N	2	215.105	117.048	29.748	1.00 93.13	NS14
ATOM	46749	N	ALA	N	2	217.096	116.656	27.189	1.00 93.13	NS14
ATOM	46750	CA	ALA	N	2	216.999	117.573	28.353	1.00 93.13	NS14
ATOM	46751	N	ARG	N	3	217.050	115.985	30.161	1.00 96.71	NS14
ATOM	46752	CA	ARG	N	3	216.535	115.240	31.294	1.00 96.71	NS14
ATOM	46753	CB	ARG	N	3	217.168	113.855	31.343	1.00 92.14	NS14
ATOM	46754	CG	ARG	N	3	216.878	113.014	30.121	1.00 92.14	NS14
ATOM	46755	CD	ARG	N	3	218.161	112.582	29.442	1.00 92.14	NS14
ATOM	46756	NE	ARG	N	3	219.082	111.943	30.379	1.00 92.14	NS14
ATOM	46757	CZ	ARG	N	3	220.286	111.484	30.048	1.00 92.14	NS14
ATOM	46758	NH1	ARG	N	3	220.720	111.587	28.794	1.00 92.14	NS14
ATOM	46759	NH2	ARG	N	3	221.062	110.933	30.973	1.00 92.14	NS14
ATOM	46760	C	ARG	N	3	216.903	116.018	32.549	1.00 96.71	NS14
ATOM	46761	O	ARG	N	3	218.003	116.569	32.637	1.00 96.71	NS14
ATOM	46762	N	LYS	N	4	215.987	116.084	33.512	1.00102.28	NS14
ATOM	46763	CA	LYS	N	4	216.266	116.803	34.747	1.00102.28	NS14
ATOM	46764	CB	LYS	N	4	215.272	116.402	35.844	1.00109.06	NS14
ATOM	46765	CG	LYS	N	4	214.113	117.377	36.065	1.00109.06	NS14
ATOM	46766	CD	LYS	N	4	213.290	116.974	37.298	1.00109.06	NS14
ATOM	46767	CE	LYS	N	4	212.207	117.999	37.654	1.00109.06	NS14
ATOM	46768	NZ	LYS	N	4	211.379	117.597	38.842	1.00109.06	NS14
ATOM	46769	C	LYS	N	4	217.684	116.450	35.179	1.00102.28	NS14
ATOM	46770	O	LYS	N	4	218.528	117.330	35.364	1.00102.28	NS14
ATOM	46771	N	ALA	N	5	217.942	115.151	35.306	1.00 74.54	NS14
ATOM	46772	CA	ALA	N	5	219.253	114.663	35.719	1.00 74.54	NS14
ATOM	46773	CB	ALA	N	5	219.319	113.135	35.582	1.00 48.91	NS14
ATOM	46774	C	ALA	N	5	220.398	115.305	34.940	1.00 74.54	NS14
ATOM	46775	O	ALA	N	5	221.436	115.619	35.519	1.00 74.54	NS14
ATOM	46776	N	LEU	N	6	220.221	115.499	33.635	1.00118.55	NS14
ATOM	46777	CA	LEU	N	6	221.280	116.098	32.828	1.00118.55	NS14
ATOM	46778	CB	LEU	N	6	221.100	115.794	31.343	1.00 77.10	NS14
ATOM	46779	CG	LEU	N	6	221.669	114.449	30.900	1.00 77.10	NS14
ATOM	46780	CD1	LEU	N	6	221.752	114.447	29.392	1.00 77.10	NS14
ATOM	46781	CD2	LEU	N	6	223.055	114.223	31.501	1.00 77.10	NS14
ATOM	46782	C	LEU	N	6	221.419	117.588	33.013	1.00118.55	NS14
ATOM	46783	O	LEU	N	6	222.199	118.237	32.317	1.00118.55	NS14
ATOM	46784	N	ILE	N	7	220.645	118.145	33.932	1.00100.78	NS14
ATOM	46785	CA	ILE	N	7	220.777	119.558	34.204	1.00100.78	NS14
ATOM	46786	CB	ILE	N	7	219.424	120.272	34.190	1.00 54.10	NS14
ATOM	46787	CG2	ILE	N	7	219.644	121.783	34.186	1.00 54.10	NS14
ATOM	46788	CG1	ILE	N	7	218.664	119.897	32.916	1.00 54.10	NS14
ATOM	46789	CD1	ILE	N	7	217.517	120.826	32.591	1.00 54.10	NS14
ATOM	46790	C	ILE	N	7	221.461	119.618	35.569	1.00100.78	NS14
ATOM	46791	O	ILE	N	7	220.981	120.216	36.537	1.00100.78	NS14
ATOM	46792	N	GLU	N	8	222.597	118.929	35.601	1.00112.78	NS14
ATOM	46793	CA	GLU	N	8	223.480	118.819	36.749	1.00112.78	NS14
ATOM	46794	CB	GLU	N	8	224.060	117.411	36.818	1.00102.81	NS14
ATOM	46795	CG	GLU	N	8	225.135	117.176	35.753	1.00102.81	NS14



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ATOM	46796	CD	GLU	N	8	225.235	115.731	35.298	1.00102.81	NS14
ATOM	46797	OE1	GLU	N	8	225.430	114.840	36.154	1.00102.81	NS14
ATOM	46798	OE2	GLU	N	8	225.124	115.486	34.075	1.00102.81	NS14
ATOM	46799	C	GLU	N	8	224.597	119.784	36.386	1.00112.78	NS14
ATOM	46800	O	GLU	N	8	225.617	119.859	37.058	1.00112.78	NS14
ATOM	46801	N	LYS	N	9	224.400	120.494	35.283	1.00112.78	NS14
ATOM	46802	CA	LYS	N	9	225.380	121.451	34.803	1.00112.78	NS14
ATOM	46803	CB	LYS	N	9	224.856	122.133	33.536	1.00 78.52	NS14
ATOM	46804	CG	LYS	N	9	225.894	122.972	32.791	1.00 78.52	NS14
ATOM	46805	CD	LYS	N	9	226.250	124.267	33.514	1.00 78.52	NS14
ATOM	46806	CE	LYS	N	9	227.463	124.927	32.881	1.00 78.52	NS14
ATOM	46807	NZ	LYS	N	9	227.843	126.163	33.601	1.00 78.52	NS14
ATOM	46808	C	LYS	N	9	225.662	122.490	35.883	1.00112.78	NS14
ATOM	46809	O	LYS	N	9	226.819	122.763	36.219	1.00112.78	NS14
ATOM	46810	N	ALA	N	10	224.594	123.065	36.425	1.00137.36	NS14
ATOM	46811	CA	ALA	N	10	224.709	124.081	37.461	1.00137.36	NS14
ATOM	46812	CB	ALA	N	10	223.338	124.685	37.741	1.00 85.05	NS14
ATOM	46813	C	ALA	N	10	225.309	123.517	38.748	1.00137.36	NS14
ATOM	46814	O	ALA	N	10	225.427	124.228	39.749	1.00137.36	NS14
ATOM	46815	N	LYS	N	11	225.685	122.241	38.715	1.00177.85	NS14
ATOM	46816	CA	LYS	N	11	226.269	121.574	39.876	1.00177.85	NS14
ATOM	46817	CB	LYS	N	11	226.250	120.047	39.669	1.00 79.94	NS14
ATOM	46818	CG	LYS	N	11	226.955	119.222	40.748	1.00 79.94	NS14
ATOM	46819	CD	LYS	N	11	226.798	117.714	40.530	1.00 79.94	NS14
ATOM	46820	CE	LYS	N	11	225.393	117.233	40.886	1.00 79.94	NS14
ATOM	46821	NZ	LYS	N	11	225.230	115.752	40.723	1.00 79.94	NS14
ATOM	46822	C	LYS	N	11	227.695	122.047	40.145	1.00177.85	NS14
ATOM	46823	O	LYS	N	11	228.352	121.549	41.059	1.00177.85	NS14
ATOM	46824	N	ARG	N	12	228.165	123.026	39.374	1.00133.57	NS14
ATOM	46825	CA	ARG	N	12	229.527	123.521	39.547	1.00133.57	NS14
ATOM	46826	CB	ARG	N	12	229.692	124.196	40.912	1.00163.54	NS14
ATOM	46827	CG	ARG	N	12	229.068	125.570	40.997	1.00163.54	NS14
ATOM	46828	CD	ARG	N	12	229.751	126.508	40.022	1.00163.54	NS14
ATOM	46829	NE	ARG	N	12	229.153	127.840	40.019	1.00163.54	NS14
ATOM	46830	CZ	ARG	N	12	229.567	128.841	39.247	1.00163.54	NS14
ATOM	46831	NH1	ARG	N	12	230.583	128.665	38.411	1.00163.54	NS14
ATOM	46832	NH2	ARG	N	12	228.965	130.021	39.309	1.00163.54	NS14
ATOM	46833	C	ARG	N	12	230.430	122.304	39.464	1.00133.57	NS14
ATOM	46834	O	ARG	N	12	230.914	121.956	38.388	1.00133.57	NS14
ATOM	46835	N	THR	N	13	230.627	121.665	40.614	1.00129.34	NS14
ATOM	46836	CA	THR	N	13	231.432	120.455	40.757	1.00129.34	NS14
ATOM	46837	CB	THR	N	13	230.654	119.376	41.538	1.00161.72	NS14
ATOM	46838	OG1	THR	N	13	230.114	119.948	42.737	1.00161.72	NS14
ATOM	46839	CG2	THR	N	13	231.569	118.208	41.895	1.00161.72	NS14
ATOM	46840	C	THR	N	13	231.836	119.858	39.417	1.00129.34	NS14
ATOM	46841	O	THR	N	13	231.341	118.804	39.017	1.00129.34	NS14
ATOM	46842	N	PRO	N	14	232.751	120.518	38.703	1.00159.33	NS14
ATOM	46843	CD	PRO	N	14	233.507	121.752	38.987	1.00127.36	NS14
ATOM	46844	CA	PRO	N	14	233.140	119.952	37.418	1.00159.33	NS14
ATOM	46845	CB	PRO	N	14	233.776	121.140	36.720	1.00127.36	NS14
ATOM	46846	CG	PRO	N	14	234.514	121.793	37.850	1.00127.36	NS14
ATOM	46847	C	PRO	N	14	234.123	118.815	37.629	1.00159.33	NS14
ATOM	46848	O	PRO	N	14	234.317	117.976	36.751	1.00159.33	NS14
ATOM	46849	N	LYS	N	15	234.731	118.791	38.811	1.00 97.49	NS14
ATOM	46850	CA	LYS	N	15	235.728	117.789	39.144	1.00 97.49	NS14
ATOM	46851	CB	LYS	N	15	235.210	116.388	38.810	1.00 96.02	NS14
ATOM	46852	CG	LYS	N	15	235.960	115.262	39.500	1.00 96.02	NS14
ATOM	46853	CD	LYS	N	15	235.209	113.942	39.348	1.00 96.02	NS14
ATOM	46854	CE	LYS	N	15	235.865	112.805	40.131	1.00 96.02	NS14
ATOM	46855	NZ	LYS	N	15	237.231	112.478	39.628	1.00 96.02	NS14
ATOM	46856	C	LYS	N	15	236.962	118.153	38.306	1.00 97.49	NS14
ATOM	46857	O	LYS	N	15	238.094	117.892	38.702	1.00 97.49	NS14
ATOM	46858	N	PHE	N	16	236.718	118.766	37.149	1.00 64.71	NS14
ATOM	46859	CA	PHE	N	16	237.750	119.248	36.220	1.00 64.71	NS14
ATOM	46860	CB	PHE	N	16	238.242	118.149	35.275	1.00 66.68	NS14
ATOM	46861	CG	PHE	N	16	238.665	116.878	35.967	1.00 66.68	NS14
ATOM	46862	CD1	PHE	N	16	237.735	115.870	36.235	1.00 66.68	NS14
ATOM	46863	CD2	PHE	N	16	239.998	116.670	36.317	1.00 66.68	NS14
ATOM	46864	CE1	PHE	N	16	238.124	114.672	36.835	1.00 66.68	NS14
ATOM	46865	CE2	PHE	N	16	240.400	115.478	36.917	1.00 66.68	NS14
ATOM	46866	CZ	PHE	N	16	239.459	114.476	37.175	1.00 66.68	NS14
ATOM	46867	C	PHE	N	16	236.985	120.293	35.416	1.00 64.71	NS14
ATOM	46868	O	PHE	N	16	236.005	119.960	34.757	1.00 64.71	NS14
ATOM	46869	N	LYS	N	17	237.423	121.545	35.462	1.00 91.23	NS14
ATOM	46870	CA	LYS	N	17	236.710	122.625	34.781	1.00 91.23	NS14
ATOM	46871	CB	LYS	N	17	237.407	123.964	35.055	1.00 85.85	NS14
ATOM	46872	CG	LYS	N	17	238.732	124.178	34.344	1.00 85.85	NS14



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ATOM	46873	CD	LYS	N	17	238.660	125.428	33.476	1.00	85.85	NS14
ATOM	46874	CE	LYS	N	17	238.092	126.618	34.253	1.00	85.85	NS14
ATOM	46875	NZ	LYS	N	17	237.858	127.816	33.393	1.00	85.85	NS14
ATOM	46876	C	LYS	N	17	236.395	122.513	33.284	1.00	91.23	NS14
ATOM	46877	O	LYS	N	17	235.643	123.335	32.755	1.00	91.23	NS14
ATOM	46878	N	VAL	N	18	236.941	121.516	32.595	1.00	107.27	NS14
ATOM	46879	CA	VAL	N	18	236.657	121.373	31.166	1.00	107.27	NS14
ATOM	46880	CB	VAL	N	18	237.773	120.610	30.428	1.00	56.14	NS14
ATOM	46881	CG1	VAL	N	18	238.965	121.536	30.198	1.00	56.14	NS14
ATOM	46882	CG2	VAL	N	18	238.181	119.373	31.233	1.00	56.14	NS14
ATOM	46883	C	VAL	N	18	235.333	120.669	30.896	1.00	107.27	NS14
ATOM	46884	O	VAL	N	18	234.857	120.635	29.759	1.00	107.27	NS14
ATOM	46885	N	ARG	N	19	234.742	120.106	31.944	1.00	68.80	NS14
ATOM	46886	CA	ARG	N	19	233.467	119.418	31.813	1.00	68.80	NS14
ATOM	46887	CB	ARG	N	19	233.376	118.283	32.831	1.00	52.37	NS14
ATOM	46888	CG	ARG	N	19	234.501	117.280	32.725	1.00	52.37	NS14
ATOM	46889	CD	ARG	N	19	234.203	116.053	33.566	1.00	52.37	NS14
ATOM	46890	NE	ARG	N	19	235.194	115.003	33.355	1.00	52.37	NS14
ATOM	46891	CZ	ARG	N	19	235.145	113.780	33.887	1.00	52.37	NS14
ATOM	46892	NH1	ARG	N	19	234.143	113.416	34.688	1.00	52.37	NS14
ATOM	46893	NH2	ARG	N	19	236.107	112.907	33.604	1.00	52.37	NS14
ATOM	46894	C	ARG	N	19	232.295	120.392	31.994	1.00	68.80	NS14
ATOM	46895	O	ARG	N	19	231.167	119.979	32.247	1.00	68.80	NS14
ATOM	46896	N	ALA	N	20	232.573	121.686	31.861	1.00	100.85	NS14
ATOM	46897	CA	ALA	N	20	231.549	122.719	31.993	1.00	100.85	NS14
ATOM	46898	CB	ALA	N	20	232.198	124.038	32.353	1.00	52.42	NS14
ATOM	46899	C	ALA	N	20	230.847	122.840	30.651	1.00	100.85	NS14
ATOM	46900	O	ALA	N	20	231.495	122.674	29.616	1.00	100.85	NS14
ATOM	46901	N	TYR	N	21	229.542	123.120	30.641	1.00	69.40	NS14
ATOM	46902	CA	TYR	N	21	228.859	123.240	29.353	1.00	69.40	NS14
ATOM	46903	CB	TYR	N	21	228.684	121.860	28.716	1.00	71.98	NS14
ATOM	46904	CG	TYR	N	21	227.687	120.934	29.369	1.00	71.98	NS14
ATOM	46905	CD1	TYR	N	21	228.076	120.053	30.370	1.00	71.98	NS14
ATOM	46906	CE1	TYR	N	21	227.188	119.117	30.881	1.00	71.98	NS14
ATOM	46907	CD2	TYR	N	21	226.373	120.869	28.905	1.00	71.98	NS14
ATOM	46908	CE2	TYR	N	21	225.478	119.946	29.406	1.00	71.98	NS14
ATOM	46909	CZ	TYR	N	21	225.888	119.064	30.389	1.00	71.98	NS14
ATOM	46910	OH	TYR	N	21	225.013	118.093	30.832	1.00	71.98	NS14
ATOM	46911	C	TYR	N	21	227.542	123.994	29.230	1.00	69.40	NS14
ATOM	46912	O	TYR	N	21	226.466	123.432	29.398	1.00	69.40	NS14
ATOM	46913	N	THR	N	22	227.651	125.271	28.888	1.00	93.08	NS14
ATOM	46914	CA	THR	N	22	226.505	126.148	28.693	1.00	93.08	NS14
ATOM	46915	CB	THR	N	22	226.453	126.609	27.227	1.00	78.52	NS14
ATOM	46916	OG1	THR	N	22	226.594	125.470	26.361	1.00	78.52	NS14
ATOM	46917	CG2	THR	N	22	227.560	127.609	26.948	1.00	78.52	NS14
ATOM	46918	C	THR	N	22	225.095	125.666	29.103	1.00	93.08	NS14
ATOM	46919	O	THR	N	22	224.681	125.874	30.251	1.00	93.08	NS14
ATOM	46920	N	ARG	N	23	224.364	125.037	28.175	1.00	69.95	NS14
ATOM	46921	CA	ARG	N	23	222.983	124.579	28.422	1.00	69.95	NS14
ATOM	46922	CB	ARG	N	23	222.824	123.953	29.803	1.00	69.73	NS14
ATOM	46923	CG	ARG	N	23	223.246	122.523	29.897	1.00	69.73	NS14
ATOM	46924	CD	ARG	N	23	222.235	121.600	29.275	1.00	69.73	NS14
ATOM	46925	NE	ARG	N	23	222.628	120.230	29.555	1.00	69.73	NS14
ATOM	46926	CZ	ARG	N	23	222.167	119.173	28.905	1.00	69.73	NS14
ATOM	46927	NH1	ARG	N	23	221.280	119.338	27.926	1.00	69.73	NS14
ATOM	46928	NH2	ARG	N	23	222.606	117.956	29.223	1.00	69.73	NS14
ATOM	46929	C	ARG	N	23	222.034	125.768	28.350	1.00	69.95	NS14
ATOM	46930	O	ARG	N	23	222.401	126.887	28.720	1.00	69.95	NS14
ATOM	46931	N	CYS	N	24	220.809	125.535	27.892	1.00	85.43	NS14
ATOM	46932	CA	CYS	N	24	219.853	126.630	27.801	1.00	85.43	NS14
ATOM	46933	CB	CYS	N	24	218.761	126.332	26.774	1.00	73.59	NS14
ATOM	46934	SG	CYS	N	24	217.794	127.789	26.343	1.00	73.59	NS14
ATOM	46935	C	CYS	N	24	219.226	126.874	29.162	1.00	85.43	NS14
ATOM	46936	O	CYS	N	24	218.816	125.941	29.859	1.00	85.43	NS14
ATOM	46937	N	VAL	N	25	219.169	128.144	29.536	1.00	74.82	NS14
ATOM	46938	CA	VAL	N	25	218.604	128.537	30.813	1.00	74.82	NS14
ATOM	46939	CB	VAL	N	25	218.983	129.983	31.158	1.00	80.46	NS14
ATOM	46940	CG1	VAL	N	25	218.263	130.951	30.228	1.00	80.46	NS14
ATOM	46941	CG2	VAL	N	25	218.643	130.264	32.594	1.00	80.46	NS14
ATOM	46942	C	VAL	N	25	217.089	128.434	30.765	1.00	74.82	NS14
ATOM	46943	O	VAL	N	25	216.432	128.394	31.801	1.00	74.82	NS14
ATOM	46944	N	ARG	N	26	216.534	128.387	29.558	1.00	71.44	NS14
ATOM	46945	CA	ARG	N	26	215.086	128.297	29.398	1.00	71.44	NS14
ATOM	46946	CB	ARG	N	26	214.598	129.398	28.468	1.00	60.73	NS14
ATOM	46947	CG	ARG	N	26	213.153	129.243	28.088	1.00	60.73	NS14
ATOM	46948	CD	ARG	N	26	212.690	130.423	27.275	1.00	60.73	NS14
ATOM	46949	NE	ARG	N	26	211.464	130.094	26.566	1.00	60.73	NS14



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ATOM	46950	CZ	ARG	N	26	210.796	130.943	25.800	1.00	60.73	NS14
ATOM	46951	NH1	ARG	N	26	211.237	132.182	25.643	1.00	60.73	NS14
ATOM	46952	NH2	ARG	N	26	209.686	130.548	25.192	1.00	60.73	NS14
ATOM	46953	C	ARG	N	26	214.557	126.959	28.896	1.00	71.44	NS14
ATOM	46954	O	ARG	N	26	213.604	126.423	29.462	1.00	71.44	NS14
ATOM	46955	N	CYS	N	27	215.163	126.432	27.831	1.00	54.33	NS14
ATOM	46956	CA	CYS	N	27	214.733	125.156	27.256	1.00	54.33	NS14
ATOM	46957	CB	CYS	N	27	214.668	125.252	25.726	1.00	33.33	NS14
ATOM	46958	SG	CYS	N	27	216.276	125.320	24.918	1.00	33.33	NS14
ATOM	46959	C	CYS	N	27	215.638	123.989	27.656	1.00	54.33	NS14
ATOM	46960	O	CYS	N	27	215.216	122.832	27.619	1.00	54.33	NS14
ATOM	46961	N	GLY	N	28	216.875	124.296	28.041	1.00	66.23	NS14
ATOM	46962	CA	GLY	N	28	217.808	123.253	28.445	1.00	66.23	NS14
ATOM	46963	C	GLY	N	28	218.617	122.716	27.275	1.00	66.23	NS14
ATOM	46964	O	GLY	N	28	219.456	121.813	27.418	1.00	66.23	NS14
ATOM	46965	N	ARG	N	29	218.357	123.294	26.106	1.00	141.74	NS14
ATOM	46966	CA	ARG	N	29	219.025	122.905	24.876	1.00	141.74	NS14
ATOM	46967	CB	ARG	N	29	218.591	123.815	23.731	1.00	83.11	NS14
ATOM	46968	CG	ARG	N	29	219.060	123.343	22.386	1.00	83.11	NS14
ATOM	46969	CD	ARG	N	29	218.319	122.080	21.993	1.00	83.11	NS14
ATOM	46970	NE	ARG	N	29	218.852	121.480	20.772	1.00	83.11	NS14
ATOM	46971	CZ	ARG	N	29	218.965	122.108	19.603	1.00	83.11	NS14
ATOM	46972	NH1	ARG	N	29	218.585	123.372	19.468	1.00	83.11	NS14
ATOM	46973	NH2	ARG	N	29	219.461	121.458	18.562	1.00	83.11	NS14
ATOM	46974	C	ARG	N	29	220.535	122.969	25.008	1.00	141.74	NS14
ATOM	46975	O	ARG	N	29	221.136	124.032	24.868	1.00	141.74	NS14
ATOM	46976	N	ALA	N	30	221.143	121.823	25.275	1.00	80.09	NS14
ATOM	46977	CA	ALA	N	30	222.593	121.737	25.410	1.00	80.09	NS14
ATOM	46978	CB	ALA	N	30	223.009	120.284	25.745	1.00	56.82	NS14
ATOM	46979	C	ALA	N	30	223.294	122.192	24.128	1.00	80.09	NS14
ATOM	46980	O	ALA	N	30	224.479	122.529	24.150	1.00	80.09	NS14
ATOM	46981	N	ARG	N	31	222.555	122.215	23.019	1.00	90.26	NS14
ATOM	46982	CA	ARG	N	31	223.128	122.586	21.733	1.00	90.26	NS14
ATOM	46983	CB	ARG	N	31	222.201	122.196	20.586	1.00	66.83	NS14
ATOM	46984	CG	ARG	N	31	222.920	121.394	19.496	1.00	66.83	NS14
ATOM	46985	CD	ARG	N	31	223.008	119.900	19.835	1.00	66.83	NS14
ATOM	46986	NE	ARG	N	31	224.151	119.250	19.192	1.00	66.83	NS14
ATOM	46987	CZ	ARG	N	31	224.379	117.939	19.195	1.00	66.83	NS14
ATOM	46988	NH1	ARG	N	31	223.537	117.108	19.801	1.00	66.83	NS14
ATOM	46989	NH2	ARG	N	31	225.469	117.462	18.611	1.00	66.83	NS14
ATOM	46990	C	ARG	N	31	223.533	124.032	21.560	1.00	90.26	NS14
ATOM	46991	O	ARG	N	31	224.069	124.642	22.473	1.00	90.26	NS14
ATOM	46992	N	SER	N	32	223.261	124.578	20.381	1.00	52.21	NS14
ATOM	46993	CA	SER	N	32	223.673	125.942	20.057	1.00	52.21	NS14
ATOM	46994	CB	SER	N	32	223.255	126.294	18.615	1.00	65.57	NS14
ATOM	46995	OG	SER	N	32	221.854	126.344	18.450	1.00	65.57	NS14
ATOM	46996	C	SER	N	32	223.264	127.072	21.011	1.00	52.21	NS14
ATOM	46997	O	SER	N	32	222.425	127.901	20.667	1.00	52.21	NS14
ATOM	46998	N	VAL	N	33	223.894	127.123	22.188	1.00	83.82	NS14
ATOM	46999	CA	VAL	N	33	223.617	128.155	23.195	1.00	83.82	NS14
ATOM	47000	CB	VAL	N	33	223.880	127.661	24.641	1.00	67.18	NS14
ATOM	47001	CG1	VAL	N	33	222.586	127.639	25.429	1.00	67.18	NS14
ATOM	47002	CG2	VAL	N	33	224.527	126.289	24.623	1.00	67.18	NS14
ATOM	47003	C	VAL	N	33	224.488	129.388	23.012	1.00	83.82	NS14
ATOM	47004	O	VAL	N	33	225.715	129.288	22.996	1.00	83.82	NS14
ATOM	47005	N	TYR	N	34	223.855	130.550	22.894	1.00	74.50	NS14
ATOM	47006	CA	TYR	N	34	224.582	131.803	22.734	1.00	74.50	NS14
ATOM	47007	CB	TYR	N	34	223.732	132.809	21.972	1.00	80.22	NS14
ATOM	47008	CG	TYR	N	34	223.703	132.632	20.476	1.00	80.22	NS14
ATOM	47009	CD1	TYR	N	34	223.060	131.548	19.879	1.00	80.22	NS14
ATOM	47010	CE1	TYR	N	34	222.975	131.445	18.482	1.00	80.22	NS14
ATOM	47011	CD2	TYR	N	34	224.266	133.596	19.651	1.00	80.22	NS14
ATOM	47012	CE2	TYR	N	34	224.189	133.505	18.267	1.00	80.22	NS14
ATOM	47013	CZ	TYR	N	34	223.544	132.437	17.686	1.00	80.22	NS14
ATOM	47014	OH	TYR	N	34	223.457	132.411	16.311	1.00	80.22	NS14
ATOM	47015	C	TYR	N	34	224.954	132.411	24.091	1.00	74.50	NS14
ATOM	47016	O	TYR	N	34	224.074	132.798	24.853	1.00	74.50	NS14
ATOM	47017	N	ARG	N	35	226.251	132.506	24.381	1.00	72.16	NS14
ATOM	47018	CA	ARG	N	35	226.739	133.071	25.644	1.00	72.16	NS14
ATOM	47019	CB	ARG	N	35	228.219	133.418	25.520	1.00	84.96	NS14
ATOM	47020	CG	ARG	N	35	229.164	132.238	25.451	1.00	84.96	NS14
ATOM	47021	CD	ARG	N	35	230.574	132.734	25.188	1.00	84.96	NS14
ATOM	47022	NE	ARG	N	35	231.562	131.665	25.233	1.00	84.96	NS14
ATOM	47023	CZ	ARG	N	35	232.771	131.753	24.684	1.00	84.96	NS14
ATOM	47024	NH1	ARG	N	35	233.124	132.866	24.051	1.00	84.96	NS14
ATOM	47025	NH2	ARG	N	35	233.625	130.734	24.763	1.00	84.96	NS14
ATOM	47026	C	ARG	N	35	226.003	134.330	26.105	1.00	72.16	NS14



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ATOM	47027	O	ARG	N	35	225.386	134.362	27.171	1.00	72.16	NS14
ATOM	47028	N	PHE	N	36	226.090	135.371	25.289	1.00	53.66	NS14
ATOM	47029	CA	PHE	N	36	225.474	136.659	25.583	1.00	53.66	NS14
ATOM	47030	CB	PHE	N	36	225.528	137.528	24.328	1.00	51.15	NS14
ATOM	47031	CG	PHE	N	36	225.201	138.977	24.559	1.00	51.15	NS14
ATOM	47032	CD1	PHE	N	36	223.891	139.435	24.476	1.00	51.15	NS14
ATOM	47033	CD2	PHE	N	36	226.221	139.906	24.759	1.00	51.15	NS14
ATOM	47034	CE1	PHE	N	36	223.595	140.808	24.573	1.00	51.15	NS14
ATOM	47035	CE2	PHE	N	36	225.948	141.279	24.859	1.00	51.15	NS14
ATOM	47036	CZ	PHE	N	36	224.628	141.730	24.761	1.00	51.15	NS14
ATOM	47037	C	PHE	N	36	224.051	136.637	26.135	1.00	53.66	NS14
ATOM	47038	O	PHE	N	36	223.590	137.658	26.630	1.00	53.66	NS14
ATOM	47039	N	PHE	N	37	223.354	135.503	26.049	1.00	57.02	NS14
ATOM	47040	CA	PHE	N	37	221.983	135.413	26.562	1.00	57.02	NS14
ATOM	47041	CB	PHE	N	37	220.949	135.299	25.451	1.00	50.78	NS14
ATOM	47042	CG	PHE	N	37	220.992	136.387	24.454	1.00	50.78	NS14
ATOM	47043	CD1	PHE	N	37	222.006	136.441	23.512	1.00	50.78	NS14
ATOM	47044	CD2	PHE	N	37	219.974	137.321	24.396	1.00	50.78	NS14
ATOM	47045	CE1	PHE	N	37	221.999	137.409	22.513	1.00	50.78	NS14
ATOM	47046	CE2	PHE	N	37	219.953	138.298	23.402	1.00	50.78	NS14
ATOM	47047	CZ	PHE	N	37	220.967	138.342	22.457	1.00	50.78	NS14
ATOM	47048	C	PHE	N	37	221.736	134.205	27.435	1.00	57.02	NS14
ATOM	47049	O	PHE	N	37	220.744	134.161	28.156	1.00	57.02	NS14
ATOM	47050	N	GLY	N	38	222.605	133.208	27.351	1.00	59.58	NS14
ATOM	47051	CA	GLY	N	38	222.386	132.000	28.127	1.00	59.58	NS14
ATOM	47052	C	GLY	N	38	221.214	131.260	27.502	1.00	59.58	NS14
ATOM	47053	O	GLY	N	38	220.580	130.418	28.134	1.00	59.58	NS14
ATOM	47054	N	LEU	N	39	220.939	131.570	26.238	1.00	85.99	NS14
ATOM	47055	CA	LEU	N	39	219.837	130.952	25.514	1.00	85.99	NS14
ATOM	47056	CB	LEU	N	39	218.854	132.036	25.087	1.00	52.77	NS14
ATOM	47057	CG	LEU	N	39	218.039	132.651	26.219	1.00	52.77	NS14
ATOM	47058	CD1	LEU	N	39	217.007	133.625	25.614	1.00	52.77	NS14
ATOM	47059	CD2	LEU	N	39	217.348	131.534	27.028	1.00	52.77	NS14
ATOM	47060	C	LEU	N	39	220.197	130.100	24.285	1.00	85.99	NS14
ATOM	47061	O	LEU	N	39	221.222	130.328	23.632	1.00	85.99	NS14
ATOM	47062	N	CYS	N	40	219.327	129.128	23.983	1.00	90.58	NS14
ATOM	47063	CA	CYS	N	40	219.472	128.228	22.832	1.00	90.58	NS14
ATOM	47064	CB	CYS	N	40	218.541	127.036	22.966	1.00	65.48	NS14
ATOM	47065	SG	CYS	N	40	216.868	127.455	22.416	1.00	65.48	NS14
ATOM	47066	C	CYS	N	40	219.045	129.012	21.590	1.00	90.58	NS14
ATOM	47067	O	CYS	N	40	218.316	130.003	21.698	1.00	90.58	NS14
ATOM	47068	N	ARG	N	41	219.460	128.551	20.414	1.00	59.50	NS14
ATOM	47069	CA	ARG	N	41	219.132	129.259	19.177	1.00	59.50	NS14
ATOM	47070	CB	ARG	N	41	219.650	128.488	17.943	1.00	65.70	NS14
ATOM	47071	CG	ARG	N	41	218.822	127.261	17.514	1.00	65.70	NS14
ATOM	47072	CD	ARG	N	41	218.359	127.368	16.042	1.00	65.70	NS14
ATOM	47073	NE	ARG	N	41	217.495	126.261	15.631	1.00	65.70	NS14
ATOM	47074	CZ	ARG	N	41	217.878	124.986	15.596	1.00	65.70	NS14
ATOM	47075	NH1	ARG	N	41	219.114	124.657	15.946	1.00	65.70	NS14
ATOM	47076	NH2	ARG	N	41	217.025	124.038	15.219	1.00	65.70	NS14
ATOM	47077	C	ARG	N	41	217.638	129.524	19.029	1.00	59.50	NS14
ATOM	47078	O	ARG	N	41	217.233	130.589	18.561	1.00	59.50	NS14
ATOM	47079	N	ILE	N	42	216.826	128.557	19.446	1.00	50.05	NS14
ATOM	47080	CA	ILE	N	42	215.376	128.665	19.335	1.00	50.05	NS14
ATOM	47081	CB	ILE	N	42	214.702	127.353	19.722	1.00	45.84	NS14
ATOM	47082	CG2	ILE	N	42	213.201	127.473	19.539	1.00	45.84	NS14
ATOM	47083	CG1	ILE	N	42	215.244	126.216	18.857	1.00	45.84	NS14
ATOM	47084	CD1	ILE	N	42	214.755	124.839	19.296	1.00	45.84	NS14
ATOM	47085	C	ILE	N	42	214.796	129.751	20.223	1.00	50.05	NS14
ATOM	47086	O	ILE	N	42	214.219	130.740	19.744	1.00	50.05	NS14
ATOM	47087	N	CYS	N	43	214.936	129.539	21.529	1.00	48.45	NS14
ATOM	47088	CA	CYS	N	43	214.435	130.474	22.521	1.00	48.45	NS14
ATOM	47089	CB	CYS	N	43	214.991	130.062	23.879	1.00	51.59	NS14
ATOM	47090	SG	CYS	N	43	214.316	128.412	24.348	1.00	51.59	NS14
ATOM	47091	C	CYS	N	43	214.814	131.897	22.113	1.00	48.45	NS14
ATOM	47092	O	CYS	N	43	213.969	132.797	22.094	1.00	48.45	NS14
ATOM	47093	N	LEU	N	44	216.078	132.076	21.744	1.00	52.03	NS14
ATOM	47094	CA	LEU	N	44	216.576	133.364	21.279	1.00	52.03	NS14
ATOM	47095	CB	LEU	N	44	217.919	133.168	20.554	1.00	56.13	NS14
ATOM	47096	CG	LEU	N	44	218.776	134.344	20.039	1.00	56.13	NS14
ATOM	47097	CD1	LEU	N	44	217.965	135.273	19.128	1.00	56.13	NS14
ATOM	47098	CD2	LEU	N	44	219.333	135.120	21.224	1.00	56.13	NS14
ATOM	47099	C	LEU	N	44	215.539	133.955	20.313	1.00	52.03	NS14
ATOM	47100	O	LEU	N	44	215.046	135.060	20.518	1.00	52.03	NS14
ATOM	47101	N	ARG	N	45	215.210	133.202	19.264	1.00	70.20	NS14
ATOM	47102	CA	ARG	N	45	214.249	133.641	18.248	1.00	70.20	NS14
ATOM	47103	CB	ARG	N	45	214.212	132.624	17.097	1.00	54.57	NS14



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ATOM	47104	CG	ARG	N	45	213.163	132.860	16.003	1.00	54.57	NS14
ATOM	47105	CD	ARG	N	45	212.983	131.582	15.157	1.00	54.57	NS14
ATOM	47106	NE	ARG	N	45	211.875	131.668	14.207	1.00	54.57	NS14
ATOM	47107	CZ	ARG	N	45	211.749	132.638	13.303	1.00	54.57	NS14
ATOM	47108	NH1	ARG	N	45	212.660	133.599	13.234	1.00	54.57	NS14
ATOM	47109	NH2	ARG	N	45	210.720	132.648	12.462	1.00	54.57	NS14
ATOM	47110	C	ARG	N	45	212.855	133.819	18.837	1.00	70.20	NS14
ATOM	47111	O	ARG	N	45	212.186	134.817	18.567	1.00	70.20	NS14
ATOM	47112	N	GLU	N	46	212.421	132.852	19.640	1.00	99.13	NS14
ATOM	47113	CA	GLU	N	46	211.105	132.928	20.264	1.00	99.13	NS14
ATOM	47114	CB	GLU	N	46	210.887	131.734	21.204	1.00	94.54	NS14
ATOM	47115	CG	GLU	N	46	210.984	130.363	20.521	1.00	94.54	NS14
ATOM	47116	CD	GLU	N	46	210.497	129.214	21.407	1.00	94.54	NS14
ATOM	47117	OE1	GLU	N	46	210.891	129.167	22.593	1.00	94.54	NS14
ATOM	47118	OE2	GLU	N	46	209.728	128.352	20.917	1.00	94.54	NS14
ATOM	47119	C	GLU	N	46	210.997	134.239	21.044	1.00	99.13	NS14
ATOM	47120	O	GLU	N	46	210.198	135.114	20.703	1.00	99.13	NS14
ATOM	47121	N	LEU	N	47	211.816	134.374	22.082	1.00	65.04	NS14
ATOM	47122	CA	LEU	N	47	211.816	135.578	22.899	1.00	65.04	NS14
ATOM	47123	CB	LEU	N	47	212.880	135.474	23.980	1.00	69.15	NS14
ATOM	47124	CG	LEU	N	47	212.434	134.591	25.136	1.00	69.15	NS14
ATOM	47125	CD1	LEU	N	47	213.600	134.286	26.060	1.00	69.15	NS14
ATOM	47126	CD2	LEU	N	47	211.309	135.295	25.877	1.00	69.15	NS14
ATOM	47127	C	LEU	N	47	212.031	136.862	22.110	1.00	65.04	NS14
ATOM	47128	O	LEU	N	47	211.311	137.841	22.303	1.00	65.04	NS14
ATOM	47129	N	ALA	N	48	213.024	136.865	21.227	1.00	60.09	NS14
ATOM	47130	CA	ALA	N	48	213.311	138.051	20.427	1.00	60.09	NS14
ATOM	47131	CB	ALA	N	48	214.378	137.745	19.389	1.00	55.78	NS14
ATOM	47132	C	ALA	N	48	212.045	138.537	19.743	1.00	60.09	NS14
ATOM	47133	O	ALA	N	48	211.855	139.737	19.555	1.00	60.09	NS14
ATOM	47134	N	HIS	N	49	211.176	137.601	19.381	1.00	82.42	NS14
ATOM	47135	CA	HIS	N	49	209.931	137.956	18.724	1.00	82.42	NS14
ATOM	47136	CB	HIS	N	49	209.299	136.728	18.068	1.00	94.56	NS14
ATOM	47137	CG	HIS	N	49	209.965	136.311	16.794	1.00	94.56	NS14
ATOM	47138	CD2	HIS	N	49	210.322	135.090	16.332	1.00	94.56	NS14
ATOM	47139	ND1	HIS	N	49	210.306	137.210	15.807	1.00	94.56	NS14
ATOM	47140	CE1	HIS	N	49	210.846	136.561	14.791	1.00	94.56	NS14
ATOM	47141	NE2	HIS	N	49	210.867	135.274	15.084	1.00	94.56	NS14
ATOM	47142	C	HIS	N	49	208.937	138.591	19.689	1.00	82.42	NS14
ATOM	47143	O	HIS	N	49	208.188	139.491	19.308	1.00	82.42	NS14
ATOM	47144	N	LYS	N	50	208.921	138.125	20.933	1.00	95.93	NS14
ATOM	47145	CA	LYS	N	50	208.004	138.686	21.918	1.00	95.93	NS14
ATOM	47146	CB	LYS	N	50	207.963	137.824	23.175	1.00	62.71	NS14
ATOM	47147	CG	LYS	N	50	207.111	136.580	23.063	1.00	62.71	NS14
ATOM	47148	CD	LYS	N	50	207.165	135.825	24.379	1.00	62.71	NS14
ATOM	47149	CE	LYS	N	50	206.214	134.642	24.426	1.00	62.71	NS14
ATOM	47150	NZ	LYS	N	50	206.386	133.892	25.716	1.00	62.71	NS14
ATOM	47151	C	LYS	N	50	208.392	140.106	22.305	1.00	95.93	NS14
ATOM	47152	O	LYS	N	50	207.547	140.885	22.737	1.00	95.93	NS14
ATOM	47153	N	GLY	N	51	209.671	140.437	22.157	1.00	94.00	NS14
ATOM	47154	CA	GLY	N	51	210.129	141.774	22.499	1.00	94.00	NS14
ATOM	47155	C	GLY	N	51	210.801	141.847	23.860	1.00	94.00	NS14
ATOM	47156	O	GLY	N	51	211.147	142.929	24.340	1.00	94.00	NS14
ATOM	47157	N	GLN	N	52	210.992	140.689	24.481	1.00	79.17	NS14
ATOM	47158	CA	GLN	N	52	211.620	140.614	25.790	1.00	79.17	NS14
ATOM	47159	CB	GLN	N	52	211.189	139.333	26.475	1.00	62.85	NS14
ATOM	47160	CG	GLN	N	52	209.703	139.260	26.618	1.00	62.85	NS14
ATOM	47161	CD	GLN	N	52	209.264	137.961	27.217	1.00	62.85	NS14
ATOM	47162	OE1	GLN	N	52	209.920	137.426	28.116	1.00	62.85	NS14
ATOM	47163	NE2	GLN	N	52	208.140	137.440	26.738	1.00	62.85	NS14
ATOM	47164	C	GLN	N	52	213.140	140.687	25.717	1.00	79.17	NS14
ATOM	47165	O	GLN	N	52	213.839	140.513	26.721	1.00	79.17	NS14
ATOM	47166	N	LEU	N	53	213.656	140.924	24.518	1.00	62.59	NS14
ATOM	47167	CA	LEU	N	53	215.090	141.052	24.352	1.00	62.59	NS14
ATOM	47168	CB	LEU	N	53	215.609	140.134	23.245	1.00	70.51	NS14
ATOM	47169	CG	LEU	N	53	215.620	138.638	23.580	1.00	70.51	NS14
ATOM	47170	CD1	LEU	N	53	216.575	137.954	22.629	1.00	70.51	NS14
ATOM	47171	CD2	LEU	N	53	216.070	138.394	25.021	1.00	70.51	NS14
ATOM	47172	C	LEU	N	53	215.333	142.506	24.018	1.00	62.59	NS14
ATOM	47173	O	LEU	N	53	215.245	142.925	22.862	1.00	62.59	NS14
ATOM	47174	N	PRO	N	54	215.630	143.301	25.053	1.00	64.71	NS14
ATOM	47175	CD	PRO	N	54	215.963	142.778	26.391	1.00	51.80	NS14
ATOM	47176	CA	PRO	N	54	215.894	144.742	24.972	1.00	64.71	NS14
ATOM	47177	CB	PRO	N	54	216.411	145.081	26.372	1.00	51.80	NS14
ATOM	47178	CG	PRO	N	54	216.977	143.770	26.868	1.00	51.80	NS14
ATOM	47179	C	PRO	N	54	216.862	145.146	23.875	1.00	64.71	NS14
ATOM	47180	O	PRO	N	54	217.976	144.632	23.798	1.00	64.71	NS14



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ATOM	47181	N	GLY	N	55	216.421	146.067	23.026	1.00117.49	NS14
ATOM	47182	CA	GLY	N	55	217.259	146.543	21.943	1.00117.49	NS14
ATOM	47183	C	GLY	N	55	217.590	145.503	20.887	1.00117.49	NS14
ATOM	47184	O	GLY	N	55	218.249	145.825	19.897	1.00117.49	NS14
ATOM	47185	N	VAL	N	56	217.149	144.262	21.088	1.00 74.90	NS14
ATOM	47186	CA	VAL	N	56	217.413	143.199	20.123	1.00 74.90	NS14
ATOM	47187	CB	VAL	N	56	217.387	141.810	20.777	1.00 81.60	NS14
ATOM	47188	CG1	VAL	N	56	217.939	140.781	19.812	1.00 81.60	NS14
ATOM	47189	CG2	VAL	N	56	218.190	141.822	22.057	1.00 81.60	NS14
ATOM	47190	C	VAL	N	56	216.327	143.242	19.068	1.00 74.90	NS14
ATOM	47191	O	VAL	N	56	215.283	142.626	19.224	1.00 74.90	NS14
ATOM	47192	N	ARG	N	57	216.579	143.983	17.997	1.00 80.13	NS14
ATOM	47193	CA	ARG	N	57	215.621	144.131	16.909	1.00 80.13	NS14
ATOM	47194	CB	ARG	N	57	215.702	145.563	16.377	1.00 93.06	NS14
ATOM	47195	CG	ARG	N	57	214.532	146.008	15.539	1.00 93.06	NS14
ATOM	47196	CD	ARG	N	57	214.695	147.466	15.136	1.00 93.06	NS14
ATOM	47197	NE	ARG	N	57	213.670	147.893	14.181	1.00 93.06	NS14
ATOM	47198	CZ	ARG	N	57	213.665	149.072	13.561	1.00 93.06	NS14
ATOM	47199	NH1	ARG	N	57	214.633	149.948	13.797	1.00 93.06	NS14
ATOM	47200	NH2	ARG	N	57	212.696	149.375	12.702	1.00 93.06	NS14
ATOM	47201	C	ARG	N	57	215.961	143.120	15.808	1.00 80.13	NS14
ATOM	47202	O	ARG	N	57	216.900	142.332	15.953	1.00 80.13	NS14
ATOM	47203	N	LYS	N	58	215.192	143.122	14.722	1.00 55.53	NS14
ATOM	47204	CA	LYS	N	58	215.454	142.206	13.615	1.00 55.53	NS14
ATOM	47205	CB	LYS	N	58	214.161	141.839	12.869	1.00 86.25	NS14
ATOM	47206	CG	LYS	N	58	213.223	140.858	13.586	1.00 86.25	NS14
ATOM	47207	CD	LYS	N	58	212.706	139.783	12.621	1.00 86.25	NS14
ATOM	47208	CE	LYS	N	58	212.103	140.390	11.363	1.00 86.25	NS14
ATOM	47209	NZ	LYS	N	58	211.889	139.361	10.318	1.00 86.25	NS14
ATOM	47210	C	LYS	N	58	216.410	142.876	12.639	1.00 55.53	NS14
ATOM	47211	O	LYS	N	58	216.202	144.027	12.245	1.00 55.53	NS14
ATOM	47212	N	ALA	N	59	217.450	142.147	12.242	1.00 68.74	NS14
ATOM	47213	CA	ALA	N	59	218.448	142.666	11.311	1.00 68.74	NS14
ATOM	47214	CB	ALA	N	59	219.661	141.757	11.320	1.00 78.53	NS14
ATOM	47215	C	ALA	N	59	217.919	142.813	9.884	1.00 68.74	NS14
ATOM	47216	O	ALA	N	59	216.980	142.133	9.492	1.00 68.74	NS14
ATOM	47217	N	SER	N	60	218.528	143.703	9.111	1.00 64.68	NS14
ATOM	47218	CA	SER	N	60	218.121	143.912	7.723	1.00 64.68	NS14
ATOM	47219	CB	SER	N	60	216.661	144.365	7.667	1.00 78.99	NS14
ATOM	47220	OG	SER	N	60	216.264	144.616	6.329	1.00 78.99	NS14
ATOM	47221	C	SER	N	60	219.006	144.947	7.017	1.00 64.68	NS14
ATOM	47222	O	SER	N	60	219.158	146.072	7.499	1.00 64.68	NS14
ATOM	47223	N	TRP	N	61	219.588	144.576	5.877	1.00102.30	NS14
ATOM	47224	CA	TRP	N	61	220.450	145.505	5.151	1.00102.30	NS14
ATOM	47225	CB	TRP	N	61	221.721	145.777	5.964	1.00 63.48	NS14
ATOM	47226	CG	TRP	N	61	222.686	144.623	6.158	1.00 63.48	NS14
ATOM	47227	CD2	TRP	N	61	222.471	143.393	6.885	1.00 63.48	NS14
ATOM	47228	CE2	TRP	N	61	223.697	142.688	6.885	1.00 63.48	NS14
ATOM	47229	CE3	TRP	N	61	221.372	142.822	7.533	1.00 63.48	NS14
ATOM	47230	CD1	TRP	N	61	223.989	144.597	5.760	1.00 63.48	NS14
ATOM	47231	NE1	TRP	N	61	224.604	143.445	6.193	1.00 63.48	NS14
ATOM	47232	CZ2	TRP	N	61	223.853	141.439	7.512	1.00 63.48	NS14
ATOM	47233	CZ3	TRP	N	61	221.534	141.571	8.159	1.00 63.48	NS14
ATOM	47234	CH2	TRP	N	61	222.765	140.901	8.140	1.00 63.48	NS14
ATOM	47235	C	TRP	N	61	220.809	145.124	3.709	1.00102.30	NS14
ATOM	47236	O	TRP	N	61	221.005	146.063	2.902	1.00102.30	NS14
ATOM	47237	OXT	TRP	N	61	220.900	143.911	3.397	1.00 79.80	NS14
TER	47237		TRP	N	61					NS14
ATOM	47238	CB	PRO	O	2	154.092	110.349	-72.337	1.00 72.23	OS15
ATOM	47239	CG	PRO	O	2	155.501	110.454	-72.931	1.00 72.23	OS15
ATOM	47240	C	PRO	O	2	152.355	108.697	-72.992	1.00121.04	OS15
ATOM	47241	O	PRO	O	2	152.089	107.901	-73.897	1.00121.04	OS15
ATOM	47242	N	PRO	O	2	154.728	108.320	-73.499	1.00121.04	OS15
ATOM	47243	CD	PRO	O	2	155.558	109.406	-74.047	1.00 72.23	OS15
ATOM	47244	CA	PRO	O	2	153.783	108.868	-72.499	1.00121.04	OS15
ATOM	47245	N	ILE	O	3	151.441	109.457	-72.395	1.00 60.19	OS15
ATOM	47246	CA	ILE	O	3	150.035	109.408	-72.781	1.00 60.19	OS15
ATOM	47247	CB	ILE	O	3	149.111	109.087	-71.572	1.00 61.54	OS15
ATOM	47248	CG2	ILE	O	3	147.950	108.214	-72.028	1.00 61.54	OS15
ATOM	47249	CG1	ILE	O	3	149.883	108.327	-70.491	1.00 61.54	OS15
ATOM	47250	CD1	ILE	O	3	149.121	108.179	-69.192	1.00 61.54	OS15
ATOM	47251	C	ILE	O	3	149.667	110.787	-73.325	1.00 60.19	OS15
ATOM	47252	O	ILE	O	3	149.566	111.749	-72.568	1.00 60.19	OS15
ATOM	47253	N	THR	O	4	149.482	110.876	-74.638	1.00103.30	OS15
ATOM	47254	CA	THR	O	4	149.135	112.136	-75.294	1.00103.30	OS15
ATOM	47255	CB	THR	O	4	148.925	111.921	-76.797	1.00101.48	OS15
ATOM	47256	OG1	THR	O	4	148.022	110.824	-76.994	1.00101.48	OS15



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ATOM	47257	CG2	THR	O	4	150.246	111.621	-77.481	1.00101.48	OS15
ATOM	47258	C	THR	O	4	147.863	112.765	-74.732	1.00103.30	OS15
ATOM	47259	O	THR	O	4	146.990	112.062	-74.222	1.00103.30	OS15
ATOM	47260	N	LYS	O	5	147.755	114.088	-74.829	1.00 78.90	OS15
ATOM	47261	CA	LYS	O	5	146.569	114.781	-74.339	1.00 78.90	OS15
ATOM	47262	CB	LYS	O	5	146.641	116.269	-74.669	1.00 93.74	OS15
ATOM	47263	CG	LYS	O	5	147.900	116.954	-74.178	1.00 93.74	OS15
ATOM	47264	CD	LYS	O	5	147.850	118.437	-74.505	1.00 93.74	OS15
ATOM	47265	CE	LYS	O	5	149.150	119.149	-74.153	1.00 93.74	OS15
ATOM	47266	NZ	LYS	O	5	149.084	120.620	-74.435	1.00 93.74	OS15
ATOM	47267	C	LYS	O	5	145.357	114.162	-75.027	1.00 78.90	OS15
ATOM	47268	O	LYS	O	5	144.280	114.040	-74.431	1.00 78.90	OS15
ATOM	47269	N	GLU	O	6	145.555	113.768	-76.287	1.00 83.13	OS15
ATOM	47270	CA	GLU	O	6	144.512	113.139	-77.098	1.00 83.13	OS15
ATOM	47271	CB	GLU	O	6	145.053	112.736	-78.476	1.00160.22	OS15
ATOM	47272	CG	GLU	O	6	146.219	113.565	-78.987	1.00160.22	OS15
ATOM	47273	CD	GLU	O	6	145.893	115.037	-79.081	1.00160.22	OS15
ATOM	47274	OE1	GLU	O	6	144.899	115.383	-79.756	1.00160.22	OS15
ATOM	47275	OE2	GLU	O	6	146.633	115.847	-78.483	1.00160.22	OS15
ATOM	47276	C	GLU	O	6	144.084	111.880	-76.369	1.00 83.13	OS15
ATOM	47277	O	GLU	O	6	142.946	111.768	-75.909	1.00 83.13	OS15
ATOM	47278	N	GLU	O	7	145.021	110.938	-76.275	1.00 76.29	OS15
ATOM	47279	CA	GLU	O	7	144.799	109.661	-75.596	1.00 76.29	OS15
ATOM	47280	CB	GLU	O	7	146.138	108.957	-75.344	1.00157.76	OS15
ATOM	47281	CG	GLU	O	7	146.545	107.981	-76.432	1.00157.76	OS15
ATOM	47282	CD	GLU	O	7	145.651	106.748	-76.474	1.00157.76	OS15
ATOM	47283	OE1	GLU	O	7	144.412	106.901	-76.571	1.00157.76	OS15
ATOM	47284	OE2	GLU	O	7	146.192	105.622	-76.413	1.00157.76	OS15
ATOM	47285	C	GLU	O	7	144.080	109.867	-74.271	1.00 76.29	OS15
ATOM	47286	O	GLU	O	7	143.224	109.074	-73.877	1.00 76.29	OS15
ATOM	47287	N	LYS	O	8	144.429	110.947	-73.588	1.00 67.67	OS15
ATOM	47288	CA	LYS	O	8	143.816	111.231	-72.316	1.00 67.67	OS15
ATOM	47289	CB	LYS	O	8	144.569	112.344	-71.600	1.00 52.25	OS15
ATOM	47290	CG	LYS	O	8	144.423	112.225	-70.106	1.00 52.25	OS15
ATOM	47291	CD	LYS	O	8	145.063	113.362	-69.361	1.00 52.25	OS15
ATOM	47292	CE	LYS	O	8	144.826	113.167	-67.882	1.00 52.25	OS15
ATOM	47293	NZ	LYS	O	8	145.340	114.306	-67.105	1.00 52.25	OS15
ATOM	47294	C	LYS	O	8	142.353	111.615	-72.481	1.00 67.67	OS15
ATOM	47295	O	LYS	O	8	141.463	110.795	-72.242	1.00 67.67	OS15
ATOM	47296	N	GLN	O	9	142.103	112.855	-72.898	1.00 71.71	OS15
ATOM	47297	CA	GLN	O	9	140.732	113.323	-73.065	1.00 71.71	OS15
ATOM	47298	CB	GLN	O	9	140.721	114.667	-73.775	1.00137.19	OS15
ATOM	47299	CG	GLN	O	9	141.258	115.759	-72.889	1.00137.19	OS15
ATOM	47300	CD	GLN	O	9	141.091	117.125	-73.495	1.00137.19	OS15
ATOM	47301	OE1	GLN	O	9	139.989	117.509	-73.889	1.00137.19	OS15
ATOM	47302	NE2	GLN	O	9	142.184	117.879	-73.569	1.00137.19	OS15
ATOM	47303	C	GLN	O	9	139.826	112.328	-73.775	1.00 71.71	OS15
ATOM	47304	O	GLN	O	9	138.649	112.201	-73.428	1.00 71.71	OS15
ATOM	47305	N	LYS	O	10	140.371	111.618	-74.759	1.00 73.46	OS15
ATOM	47306	CA	LYS	O	10	139.595	110.615	-75.477	1.00 73.46	OS15
ATOM	47307	CB	LYS	O	10	140.499	109.818	-76.430	1.00108.31	OS15
ATOM	47308	CG	LYS	O	10	140.012	108.401	-76.730	1.00108.31	OS15
ATOM	47309	CD	LYS	O	10	138.572	108.384	-77.224	1.00108.31	OS15
ATOM	47310	CE	LYS	O	10	137.953	107.000	-77.076	1.00108.31	OS15
ATOM	47311	NZ	LYS	O	10	136.478	107.016	-77.298	1.00108.31	OS15
ATOM	47312	C	LYS	O	10	138.966	109.683	-74.441	1.00 73.46	OS15
ATOM	47313	O	LYS	O	10	137.822	109.233	-74.583	1.00 73.46	OS15
ATOM	47314	N	VAL	O	11	139.724	109.406	-73.388	1.00 68.24	OS15
ATOM	47315	CA	VAL	O	11	139.248	108.542	-72.328	1.00 68.24	OS15
ATOM	47316	CB	VAL	O	11	140.415	107.993	-71.512	1.00 70.57	OS15
ATOM	47317	CG1	VAL	O	11	139.898	107.131	-70.374	1.00 70.57	OS15
ATOM	47318	CG2	VAL	O	11	141.317	107.187	-72.415	1.00 70.57	OS15
ATOM	47319	C	VAL	O	11	138.298	109.295	-71.413	1.00 68.24	OS15
ATOM	47320	O	VAL	O	11	137.241	108.776	-71.057	1.00 68.24	OS15
ATOM	47321	N	ILE	O	12	138.663	110.517	-71.041	1.00 63.27	OS15
ATOM	47322	CA	ILE	O	12	137.806	111.303	-70.166	1.00 63.27	OS15
ATOM	47323	CB	ILE	O	12	138.322	112.729	-69.979	1.00 44.28	OS15
ATOM	47324	CG2	ILE	O	12	137.417	113.467	-69.009	1.00 44.28	OS15
ATOM	47325	CG1	ILE	O	12	139.754	112.714	-69.445	1.00 44.28	OS15
ATOM	47326	CD1	ILE	O	12	140.368	114.115	-69.320	1.00 44.28	OS15
ATOM	47327	C	ILE	O	12	136.393	111.392	-70.742	1.00 63.27	OS15
ATOM	47328	O	ILE	O	12	135.405	111.148	-70.042	1.00 63.27	OS15
ATOM	47329	N	GLN	O	13	136.291	111.754	-72.016	1.00 67.12	OS15
ATOM	47330	CA	GLN	O	13	134.985	111.842	-72.651	1.00 67.12	OS15
ATOM	47331	CB	GLN	O	13	135.120	112.319	-74.090	1.00118.53	OS15
ATOM	47332	CG	GLN	O	13	135.498	113.765	-74.237	1.00118.53	OS15
ATOM	47333	CD	GLN	O	13	135.689	114.142	-75.684	1.00118.53	OS15



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ATOM	47334	OE1	GLN	O	13	135.770	115.321	-76.023	1.00118.53	OS15
ATOM	47335	NE2	GLN	O	13	135.770	113.137	-76.551	1.00118.53	OS15
ATOM	47336	C	GLN	O	13	134.362	110.460	-72.659	1.00 67.12	OS15
ATOM	47337	O	GLN	O	13	133.216	110.276	-72.268	1.00 67.12	OS15
ATOM	47338	N	GLU	O	14	135.144	109.486	-73.105	1.00 58.72	OS15
ATOM	47339	CA	GLU	O	14	134.691	108.105	-73.197	1.00 58.72	OS15
ATOM	47340	CB	GLU	O	14	135.874	107.196	-73.530	1.00162.23	OS15
ATOM	47341	CG	GLU	O	14	135.515	105.728	-73.489	1.00162.23	OS15
ATOM	47342	CD	GLU	O	14	134.317	105.411	-74.357	1.00162.23	OS15
ATOM	47343	OE1	GLU	O	14	133.668	104.370	-74.122	1.00162.23	OS15
ATOM	47344	OE2	GLU	O	14	134.026	106.202	-75.279	1.00162.23	OS15
ATOM	47345	C	GLU	O	14	133.963	107.549	-71.971	1.00 58.72	OS15
ATOM	47346	O	GLU	O	14	133.081	106.697	-72.105	1.00 58.72	OS15
ATOM	47347	N	PHE	O	15	134.330	108.024	-70.784	1.00 82.03	OS15
ATOM	47348	CA	PHE	O	15	133.714	107.540	-69.553	1.00 82.03	OS15
ATOM	47349	CB	PHE	O	15	134.785	107.011	-68.602	1.00 57.32	OS15
ATOM	47350	CG	PHE	O	15	135.328	105.677	-68.993	1.00 57.32	OS15
ATOM	47351	CD1	PHE	O	15	136.110	105.538	-70.130	1.00 57.32	OS15
ATOM	47352	CD2	PHE	O	15	135.014	104.545	-68.246	1.00 57.32	OS15
ATOM	47353	CE1	PHE	O	15	136.569	104.284	-70.524	1.00 57.32	OS15
ATOM	47354	CE2	PHE	O	15	135.465	103.283	-68.627	1.00 57.32	OS15
ATOM	47355	CZ	PHE	O	15	136.245	103.151	-69.771	1.00 57.32	OS15
ATOM	47356	C	PHE	O	15	132.860	108.543	-68.803	1.00 82.03	OS15
ATOM	47357	O	PHE	O	15	131.931	108.146	-68.100	1.00 82.03	OS15
ATOM	47358	N	ALA	O	16	133.177	109.829	-68.936	1.00 61.92	OS15
ATOM	47359	CA	ALA	O	16	132.430	110.887	-68.250	1.00 61.92	OS15
ATOM	47360	CB	ALA	O	16	132.661	112.217	-68.946	1.00 30.61	OS15
ATOM	47361	C	ALA	O	16	130.928	110.599	-68.152	1.00 61.92	OS15
ATOM	47362	O	ALA	O	16	130.329	110.052	-69.080	1.00 61.92	OS15
ATOM	47363	N	ARG	O	17	130.333	110.974	-67.020	1.00 77.90	OS15
ATOM	47364	CA	ARG	O	17	128.909	110.760	-66.753	1.00 77.90	OS15
ATOM	47365	CB	ARG	O	17	128.631	110.933	-65.257	1.00 86.54	OS15
ATOM	47366	CG	ARG	O	17	129.433	110.013	-64.350	1.00 86.54	OS15
ATOM	47367	CD	ARG	O	17	128.800	108.636	-64.214	1.00 86.54	OS15
ATOM	47368	NE	ARG	O	17	127.499	108.669	-63.542	1.00 86.54	OS15
ATOM	47369	CZ	ARG	O	17	127.263	109.243	-62.360	1.00 86.54	OS15
ATOM	47370	NH1	ARG	O	17	128.235	109.853	-61.693	1.00 86.54	OS15
ATOM	47371	NH2	ARG	O	17	126.046	109.196	-61.835	1.00 86.54	OS15
ATOM	47372	C	ARG	O	17	128.010	111.718	-67.536	1.00 77.90	OS15
ATOM	47373	O	ARG	O	17	126.826	111.446	-67.750	1.00 77.90	OS15
ATOM	47374	N	PHE	O	18	128.582	112.836	-67.961	1.00 67.09	OS15
ATOM	47375	CA	PHE	O	18	127.843	113.848	-68.700	1.00 67.09	OS15
ATOM	47376	CB	PHE	O	18	126.850	114.526	-67.768	1.00 78.43	OS15
ATOM	47377	CG	PHE	O	18	127.471	115.008	-66.489	1.00 78.43	OS15
ATOM	47378	CD1	PHE	O	18	128.286	116.139	-66.475	1.00 78.43	OS15
ATOM	47379	CD2	PHE	O	18	127.267	114.311	-65.297	1.00 78.43	OS15
ATOM	47380	CE1	PHE	O	18	128.891	116.569	-65.293	1.00 78.43	OS15
ATOM	47381	CE2	PHE	O	18	127.867	114.733	-64.111	1.00 78.43	OS15
ATOM	47382	CZ	PHE	O	18	128.681	115.864	-64.110	1.00 78.43	OS15
ATOM	47383	C	PHE	O	18	128.840	114.873	-69.214	1.00 67.09	OS15
ATOM	47384	O	PHE	O	18	129.941	114.998	-68.677	1.00 67.09	OS15
ATOM	47385	N	PRO	O	19	128.470	115.623	-70.258	1.00103.93	OS15
ATOM	47386	CD	PRO	O	19	127.184	115.676	-70.973	1.00 96.16	OS15
ATOM	47387	CA	PRO	O	19	129.401	116.622	-70.783	1.00103.93	OS15
ATOM	47388	CB	PRO	O	19	128.536	117.411	-71.757	1.00 96.16	OS15
ATOM	47389	CG	PRO	O	19	127.567	116.378	-72.248	1.00 96.16	OS15
ATOM	47390	C	PRO	O	19	129.915	117.485	-69.637	1.00103.93	OS15
ATOM	47391	O	PRO	O	19	129.123	118.093	-68.916	1.00103.93	OS15
ATOM	47392	N	GLY	O	20	131.235	117.515	-69.459	1.00 72.44	OS15
ATOM	47393	CA	GLY	O	20	131.823	118.315	-68.394	1.00 72.44	OS15
ATOM	47394	C	GLY	O	20	132.371	117.496	-67.239	1.00 72.44	OS15
ATOM	47395	O	GLY	O	20	133.180	117.979	-66.443	1.00 72.44	OS15
ATOM	47396	N	ASP	O	21	131.920	116.251	-67.143	1.00 78.03	OS15
ATOM	47397	CA	ASP	O	21	132.372	115.364	-66.086	1.00 78.03	OS15
ATOM	47398	CB	ASP	O	21	131.609	114.044	-66.140	1.00 78.69	OS15
ATOM	47399	CG	ASP	O	21	132.168	113.019	-65.178	1.00 78.69	OS15
ATOM	47400	OD1	ASP	O	21	131.811	111.827	-65.287	1.00 78.69	OS15
ATOM	47401	OD2	ASP	O	21	132.968	113.409	-64.304	1.00 78.69	OS15
ATOM	47402	C	ASP	O	21	133.857	115.082	-66.251	1.00 78.03	OS15
ATOM	47403	O	ASP	O	21	134.249	114.261	-67.079	1.00 78.03	OS15
ATOM	47404	N	THR	O	22	134.687	115.759	-65.468	1.00 60.48	OS15
ATOM	47405	CA	THR	O	22	136.118	115.531	-65.565	1.00 60.48	OS15
ATOM	47406	CB	THR	O	22	136.923	116.855	-65.487	1.00 69.95	OS15
ATOM	47407	OG1	THR	O	22	136.812	117.420	-64.176	1.00 69.95	OS15
ATOM	47408	CG2	THR	O	22	136.396	117.854	-66.491	1.00 69.95	OS15
ATOM	47409	C	THR	O	22	136.604	114.591	-64.465	1.00 60.48	OS15
ATOM	47410	O	THR	O	22	137.536	113.832	-64.681	1.00 60.48	OS15



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ATOM	47411	N	GLY	O	23	135.964	114.620	-63.296	1.00	49.61	OS15
ATOM	47412	CA	GLY	O	23	136.404	113.761	-62.204	1.00	49.61	OS15
ATOM	47413	C	GLY	O	23	135.406	112.853	-61.489	1.00	49.61	OS15
ATOM	47414	O	GLY	O	23	135.401	112.777	-60.261	1.00	49.61	OS15
ATOM	47415	N	SER	O	24	134.552	112.161	-62.231	1.00	51.86	OS15
ATOM	47416	CA	SER	O	24	133.608	111.252	-61.598	1.00	51.86	OS15
ATOM	47417	CB	SER	O	24	132.528	110.811	-62.581	1.00	93.90	OS15
ATOM	47418	OG	SER	O	24	131.636	111.869	-62.851	1.00	93.90	OS15
ATOM	47419	C	SER	O	24	134.409	110.044	-61.180	1.00	51.86	OS15
ATOM	47420	O	SER	O	24	135.535	109.849	-61.631	1.00	51.86	OS15
ATOM	47421	N	THR	O	25	133.838	109.220	-60.320	1.00	61.53	OS15
ATOM	47422	CA	THR	O	25	134.549	108.035	-59.892	1.00	61.53	OS15
ATOM	47423	CB	THR	O	25	133.718	107.227	-58.905	1.00	58.38	OS15
ATOM	47424	OG1	THR	O	25	133.508	108.012	-57.724	1.00	58.38	OS15
ATOM	47425	CG2	THR	O	25	134.427	105.932	-58.543	1.00	58.38	OS15
ATOM	47426	C	THR	O	25	134.892	107.167	-61.096	1.00	61.53	OS15
ATOM	47427	O	THR	O	25	135.921	106.503	-61.099	1.00	61.53	OS15
ATOM	47428	N	GLU	O	26	134.040	107.178	-62.120	1.00	57.10	OS15
ATOM	47429	CA	GLU	O	26	134.295	106.374	-63.316	1.00	57.10	OS15
ATOM	47430	CB	GLU	O	26	133.069	106.320	-64.232	1.00	72.30	OS15
ATOM	47431	CG	GLU	O	26	131.930	105.425	-63.763	1.00	72.30	OS15
ATOM	47432	CD	GLU	O	26	130.978	106.111	-62.784	1.00	72.30	OS15
ATOM	47433	OE1	GLU	O	26	129.909	105.525	-62.497	1.00	72.30	OS15
ATOM	47434	OE2	GLU	O	26	131.292	107.225	-62.301	1.00	72.30	OS15
ATOM	47435	C	GLU	O	26	135.468	106.928	-64.107	1.00	57.10	OS15
ATOM	47436	O	GLU	O	26	136.427	106.213	-64.383	1.00	57.10	OS15
ATOM	47437	N	VAL	O	27	135.392	108.203	-64.473	1.00	53.80	OS15
ATOM	47438	CA	VAL	O	27	136.463	108.829	-65.246	1.00	53.80	OS15
ATOM	47439	CB	VAL	O	27	136.298	110.358	-65.322	1.00	46.50	OS15
ATOM	47440	CG1	VAL	O	27	137.295	110.938	-66.302	1.00	46.50	OS15
ATOM	47441	CG2	VAL	O	27	134.878	110.705	-65.737	1.00	46.50	OS15
ATOM	47442	C	VAL	O	27	137.811	108.539	-64.607	1.00	53.80	OS15
ATOM	47443	O	VAL	O	27	138.758	108.128	-65.285	1.00	53.80	OS15
ATOM	47444	N	GLN	O	28	137.888	108.755	-63.298	1.00	53.77	OS15
ATOM	47445	CA	GLN	O	28	139.117	108.520	-62.565	1.00	53.77	OS15
ATOM	47446	CB	GLN	O	28	138.931	108.885	-61.106	1.00	59.45	OS15
ATOM	47447	CG	GLN	O	28	139.140	110.356	-60.862	1.00	59.45	OS15
ATOM	47448	CD	GLN	O	28	138.976	110.728	-59.414	1.00	59.45	OS15
ATOM	47449	OE1	GLN	O	28	139.306	109.946	-58.520	1.00	59.45	OS15
ATOM	47450	NE2	GLN	O	28	138.476	111.933	-59.168	1.00	59.45	OS15
ATOM	47451	C	GLN	O	28	139.588	107.089	-62.686	1.00	53.77	OS15
ATOM	47452	O	GLN	O	28	140.714	106.835	-63.106	1.00	53.77	OS15
ATOM	47453	N	VAL	O	29	138.728	106.152	-62.318	1.00	49.58	OS15
ATOM	47454	CA	VAL	O	29	139.087	104.748	-62.411	1.00	49.58	OS15
ATOM	47455	CB	VAL	O	29	137.916	103.846	-61.949	1.00	32.60	OS15
ATOM	47456	CG1	VAL	O	29	138.134	102.406	-62.382	1.00	32.60	OS15
ATOM	47457	CG2	VAL	O	29	137.813	103.921	-60.420	1.00	32.60	OS15
ATOM	47458	C	VAL	O	29	139.491	104.425	-63.842	1.00	49.58	OS15
ATOM	47459	O	VAL	O	29	140.306	103.531	-64.082	1.00	49.58	OS15
ATOM	47460	N	ALA	O	30	138.938	105.166	-64.794	1.00	47.43	OS15
ATOM	47461	CA	ALA	O	30	139.281	104.945	-66.190	1.00	47.43	OS15
ATOM	47462	CB	ALA	O	30	138.385	105.781	-67.099	1.00	64.85	OS15
ATOM	47463	C	ALA	O	30	140.739	105.345	-66.373	1.00	47.43	OS15
ATOM	47464	O	ALA	O	30	141.595	104.494	-66.614	1.00	47.43	OS15
ATOM	47465	N	LEU	O	31	141.013	106.641	-66.233	1.00	66.43	OS15
ATOM	47466	CA	LEU	O	31	142.362	107.185	-66.386	1.00	66.43	OS15
ATOM	47467	CB	LEU	O	31	142.395	108.646	-65.926	1.00	60.35	OS15
ATOM	47468	CG	LEU	O	31	141.966	109.705	-66.949	1.00	60.35	OS15
ATOM	47469	CD1	LEU	O	31	140.662	109.306	-67.598	1.00	60.35	OS15
ATOM	47470	CD2	LEU	O	31	141.818	111.050	-66.269	1.00	60.35	OS15
ATOM	47471	C	LEU	O	31	143.461	106.401	-65.670	1.00	66.43	OS15
ATOM	47472	O	LEU	O	31	144.563	106.256	-66.208	1.00	66.43	OS15
ATOM	47473	N	LEU	O	32	143.173	105.904	-64.463	1.00	70.28	OS15
ATOM	47474	CA	LEU	O	32	144.158	105.128	-63.701	1.00	70.28	OS15
ATOM	47475	CB	LEU	O	32	143.630	104.756	-62.313	1.00	57.46	OS15
ATOM	47476	CG	LEU	O	32	143.486	105.906	-61.309	1.00	57.46	OS15
ATOM	47477	CD1	LEU	O	32	143.324	105.346	-59.899	1.00	57.46	OS15
ATOM	47478	CD2	LEU	O	32	144.721	106.792	-61.364	1.00	57.46	OS15
ATOM	47479	C	LEU	O	32	144.492	103.860	-64.452	1.00	70.28	OS15
ATOM	47480	O	LEU	O	32	145.658	103.553	-64.698	1.00	70.28	OS15
ATOM	47481	N	THR	O	33	143.453	103.124	-64.815	1.00	52.05	OS15
ATOM	47482	CA	THR	O	33	143.626	101.892	-65.559	1.00	52.05	OS15
ATOM	47483	CB	THR	O	33	142.295	101.390	-66.040	1.00	47.86	OS15
ATOM	47484	OG1	THR	O	33	141.376	101.446	-64.943	1.00	47.86	OS15
ATOM	47485	CG2	THR	O	33	142.419	99.948	-66.557	1.00	47.86	OS15
ATOM	47486	C	THR	O	33	144.522	102.125	-66.759	1.00	52.05	OS15
ATOM	47487	O	THR	O	33	145.287	101.247	-67.155	1.00	52.05	OS15



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ATOM	47488	N	LEU	O	34	144.426	103.315	-67.338	1.00	61.48	OS15
ATOM	47489	CA	LEU	O	34	145.254	103.644	-68.484	1.00	61.48	OS15
ATOM	47490	CB	LEU	O	34	144.856	105.000	-69.062	1.00	46.65	OS15
ATOM	47491	CG	LEU	O	34	145.431	105.298	-70.450	1.00	46.65	OS15
ATOM	47492	CD1	LEU	O	34	144.815	106.586	-70.976	1.00	46.65	OS15
ATOM	47493	CD2	LEU	O	34	146.956	105.406	-70.387	1.00	46.65	OS15
ATOM	47494	C	LEU	O	34	146.706	103.685	-68.023	1.00	61.48	OS15
ATOM	47495	O	LEU	O	34	147.526	102.862	-68.445	1.00	61.48	OS15
ATOM	47496	N	ARG	O	35	147.017	104.643	-67.154	1.00	51.44	OS15
ATOM	47497	CA	ARG	O	35	148.373	104.791	-66.631	1.00	51.44	OS15
ATOM	47498	CB	ARG	O	35	148.398	105.843	-65.526	1.00	76.95	OS15
ATOM	47499	CG	ARG	O	35	148.015	107.230	-65.996	1.00	76.95	OS15
ATOM	47500	CD	ARG	O	35	148.065	108.197	-64.842	1.00	76.95	OS15
ATOM	47501	NE	ARG	O	35	149.378	108.170	-64.211	1.00	76.95	OS15
ATOM	47502	CZ	ARG	O	35	149.586	108.428	-62.925	1.00	76.95	OS15
ATOM	47503	NH1	ARG	O	35	148.555	108.731	-62.140	1.00	76.95	OS15
ATOM	47504	NH2	ARG	O	35	150.818	108.377	-62.425	1.00	76.95	OS15
ATOM	47505	C	ARG	O	35	148.907	103.462	-66.095	1.00	51.44	OS15
ATOM	47506	O	ARG	O	35	150.042	103.072	-66.387	1.00	51.44	OS15
ATOM	47507	N	ILE	O	36	148.086	102.771	-65.311	1.00	46.05	OS15
ATOM	47508	CA	ILE	O	36	148.485	101.490	-64.765	1.00	46.05	OS15
ATOM	47509	CB	ILE	O	36	147.337	100.807	-64.020	1.00	33.93	OS15
ATOM	47510	CG2	ILE	O	36	147.582	99.309	-63.943	1.00	33.93	OS15
ATOM	47511	CG1	ILE	O	36	147.202	101.406	-62.625	1.00	33.93	OS15
ATOM	47512	CD1	ILE	O	36	146.033	100.840	-61.847	1.00	33.93	OS15
ATOM	47513	C	ILE	O	36	148.940	100.550	-65.868	1.00	46.05	OS15
ATOM	47514	O	ILE	O	36	150.038	99.999	-65.810	1.00	46.05	OS15
ATOM	47515	N	ASN	O	37	148.105	100.360	-66.880	1.00	47.05	OS15
ATOM	47516	CA	ASN	O	37	148.478	99.448	-67.939	1.00	47.05	OS15
ATOM	47517	CB	ASN	O	37	147.291	99.233	-68.861	1.00	51.64	OS15
ATOM	47518	CG	ASN	O	37	146.229	98.379	-68.204	1.00	51.64	OS15
ATOM	47519	OD1	ASN	O	37	145.143	98.183	-68.736	1.00	51.64	OS15
ATOM	47520	ND2	ASN	O	37	146.550	97.857	-67.025	1.00	51.64	OS15
ATOM	47521	C	ASN	O	37	149.732	99.869	-68.680	1.00	47.05	OS15
ATOM	47522	O	ASN	O	37	150.605	99.034	-68.937	1.00	47.05	OS15
ATOM	47523	N	ARG	O	38	149.853	101.153	-68.999	1.00	56.51	OS15
ATOM	47524	CA	ARG	O	38	151.060	101.612	-69.671	1.00	56.51	OS15
ATOM	47525	CB	ARG	O	38	151.039	103.126	-69.855	1.00	84.43	OS15
ATOM	47526	CG	ARG	O	38	149.952	103.630	-70.770	1.00	84.43	OS15
ATOM	47527	CD	ARG	O	38	150.140	103.152	-72.205	1.00	84.43	OS15
ATOM	47528	NE	ARG	O	38	149.617	104.132	-73.160	1.00	84.43	OS15
ATOM	47529	CZ	ARG	O	38	150.154	105.336	-73.367	1.00	84.43	OS15
ATOM	47530	NH1	ARG	O	38	151.235	105.709	-72.690	1.00	84.43	OS15
ATOM	47531	NH2	ARG	O	38	149.604	106.176	-74.239	1.00	84.43	OS15
ATOM	47532	C	ARG	O	38	152.258	101.229	-68.793	1.00	56.51	OS15
ATOM	47533	O	ARG	O	38	153.238	100.639	-69.265	1.00	56.51	OS15
ATOM	47534	N	LEU	O	39	152.159	101.557	-67.505	1.00	48.45	OS15
ATOM	47535	CA	LEU	O	39	153.227	101.276	-66.549	1.00	48.45	OS15
ATOM	47536	CB	LEU	O	39	152.917	101.949	-65.209	1.00	50.90	OS15
ATOM	47537	CG	LEU	O	39	154.076	102.170	-64.232	1.00	50.90	OS15
ATOM	47538	CD1	LEU	O	39	153.571	102.946	-63.025	1.00	50.90	OS15
ATOM	47539	CD2	LEU	O	39	154.669	100.836	-63.804	1.00	50.90	OS15
ATOM	47540	C	LEU	O	39	153.422	99.776	-66.358	1.00	48.45	OS15
ATOM	47541	O	LEU	O	39	154.546	99.285	-66.418	1.00	48.45	OS15
ATOM	47542	N	SER	O	40	152.334	99.051	-66.117	1.00	54.26	OS15
ATOM	47543	CA	SER	O	40	152.422	97.606	-65.945	1.00	54.26	OS15
ATOM	47544	CB	SER	O	40	151.030	96.971	-65.941	1.00	112.05	OS15
ATOM	47545	OG	SER	O	40	150.251	97.442	-64.858	1.00	112.05	OS15
ATOM	47546	C	SER	O	40	153.205	97.080	-67.137	1.00	54.26	OS15
ATOM	47547	O	SER	O	40	153.962	96.109	-67.025	1.00	54.26	OS15
ATOM	47548	N	GLU	O	41	153.015	97.747	-68.274	1.00	66.31	OS15
ATOM	47549	CA	GLU	O	41	153.687	97.385	-69.509	1.00	66.31	OS15
ATOM	47550	CB	GLU	O	41	153.123	98.198	-70.668	1.00	104.13	OS15
ATOM	47551	CG	GLU	O	41	153.483	97.618	-71.998	1.00	104.13	OS15
ATOM	47552	CD	GLU	O	41	153.092	96.153	-72.092	1.00	104.13	OS15
ATOM	47553	OE1	GLU	O	41	153.396	95.517	-73.124	1.00	104.13	OS15
ATOM	47554	OE2	GLU	O	41	152.478	95.633	-71.132	1.00	104.13	OS15
ATOM	47555	C	GLU	O	41	155.182	97.643	-69.382	1.00	66.31	OS15
ATOM	47556	O	GLU	O	41	156.001	96.724	-69.507	1.00	66.31	OS15
ATOM	47557	N	HIS	O	42	155.522	98.906	-69.136	1.00	64.84	OS15
ATOM	47558	CA	HIS	O	42	156.902	99.350	-68.961	1.00	64.84	OS15
ATOM	47559	CB	HIS	O	42	156.915	100.754	-68.364	1.00	68.72	OS15
ATOM	47560	CG	HIS	O	42	158.218	101.142	-67.735	1.00	68.72	OS15
ATOM	47561	CD2	HIS	O	42	158.577	101.260	-66.434	1.00	68.72	OS15
ATOM	47562	ND1	HIS	O	42	159.325	101.507	-68.471	1.00	68.72	OS15
ATOM	47563	CE1	HIS	O	42	160.307	101.839	-67.652	1.00	68.72	OS15
ATOM	47564	NE2	HIS	O	42	159.879	101.699	-66.410	1.00	68.72	OS15



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ATOM	47565	C	HIS	O	42	157.682	98.424	-68.049	1.00	64.84	OS15
ATOM	47566	O	HIS	O	42	158.845	98.152	-68.294	1.00	64.84	OS15
ATOM	47567	N	LEU	O	43	157.044	97.942	-66.992	1.00	42.67	OS15
ATOM	47568	CA	LEU	O	43	157.722	97.057	-66.063	1.00	42.67	OS15
ATOM	47569	CB	LEU	O	43	157.038	97.109	-64.697	1.00	41.44	OS15
ATOM	47570	CG	LEU	O	43	157.156	98.437	-63.949	1.00	41.44	OS15
ATOM	47571	CD1	LEU	O	43	156.475	98.329	-62.603	1.00	41.44	OS15
ATOM	47572	CD2	LEU	O	43	158.610	98.783	-63.762	1.00	41.44	OS15
ATOM	47573	C	LEU	O	43	157.842	95.606	-66.535	1.00	42.67	OS15
ATOM	47574	O	LEU	O	43	158.573	94.820	-65.916	1.00	42.67	OS15
ATOM	47575	N	LYS	O	44	157.133	95.235	-67.607	1.00	61.55	OS15
ATOM	47576	CA	LYS	O	44	157.240	93.868	-68.118	1.00	61.55	OS15
ATOM	47577	CB	LYS	O	44	156.318	93.627	-69.307	1.00	90.80	OS15
ATOM	47578	CG	LYS	O	44	154.902	93.288	-68.897	1.00	90.80	OS15
ATOM	47579	CD	LYS	O	44	154.216	92.415	-69.931	1.00	90.80	OS15
ATOM	47580	CE	LYS	O	44	152.854	91.963	-69.439	1.00	90.80	OS15
ATOM	47581	NZ	LYS	O	44	152.236	91.003	-70.385	1.00	90.80	OS15
ATOM	47582	C	LYS	O	44	158.673	93.776	-68.549	1.00	61.55	OS15
ATOM	47583	O	LYS	O	44	159.271	92.712	-68.561	1.00	61.55	OS15
ATOM	47584	N	VAL	O	45	159.204	94.937	-68.900	1.00	79.33	OS15
ATOM	47585	CA	VAL	O	45	160.591	95.108	-69.285	1.00	79.33	OS15
ATOM	47586	CB	VAL	O	45	160.708	95.949	-70.542	1.00	41.58	OS15
ATOM	47587	CG1	VAL	O	45	162.052	95.699	-71.207	1.00	41.58	OS15
ATOM	47588	CG2	VAL	O	45	159.550	95.655	-71.460	1.00	41.58	OS15
ATOM	47589	C	VAL	O	45	161.060	95.954	-68.112	1.00	79.33	OS15
ATOM	47590	O	VAL	O	45	160.231	96.391	-67.320	1.00	79.33	OS15
ATOM	47591	N	HIS	O	46	162.354	96.206	-67.976	1.00	73.01	OS15
ATOM	47592	CA	HIS	O	46	162.812	97.020	-66.847	1.00	73.01	OS15
ATOM	47593	CB	HIS	O	46	162.300	98.451	-66.991	1.00	53.35	OS15
ATOM	47594	CG	HIS	O	46	162.606	99.061	-68.315	1.00	53.35	OS15
ATOM	47595	CD2	HIS	O	46	163.358	100.135	-68.652	1.00	53.35	OS15
ATOM	47596	ND1	HIS	O	46	162.146	98.527	-69.497	1.00	53.35	OS15
ATOM	47597	CE1	HIS	O	46	162.604	99.244	-70.508	1.00	53.35	OS15
ATOM	47598	NE2	HIS	O	46	163.344	100.225	-70.023	1.00	53.35	OS15
ATOM	47599	C	HIS	O	46	162.323	96.465	-65.505	1.00	73.01	OS15
ATOM	47600	O	HIS	O	46	161.858	97.216	-64.646	1.00	73.01	OS15
ATOM	47601	N	LYS	O	47	162.421	95.153	-65.325	1.00	64.03	OS15
ATOM	47602	CA	LYS	O	47	161.977	94.553	-64.084	1.00	64.03	OS15
ATOM	47603	CB	LYS	O	47	162.082	93.041	-64.178	1.00	74.14	OS15
ATOM	47604	CG	LYS	O	47	161.283	92.484	-65.326	1.00	74.14	OS15
ATOM	47605	CD	LYS	O	47	161.431	90.984	-65.423	1.00	74.14	OS15
ATOM	47606	CE	LYS	O	47	160.628	90.423	-66.586	1.00	74.14	OS15
ATOM	47607	NZ	LYS	O	47	160.858	88.957	-66.745	1.00	74.14	OS15
ATOM	47608	C	LYS	O	47	162.831	95.078	-62.946	1.00	64.03	OS15
ATOM	47609	O	LYS	O	47	162.517	94.869	-61.779	1.00	64.03	OS15
ATOM	47610	N	LYS	O	48	163.913	95.771	-63.287	1.00	68.14	OS15
ATOM	47611	CA	LYS	O	48	164.793	96.323	-62.272	1.00	68.14	OS15
ATOM	47612	CB	LYS	O	48	166.256	96.216	-62.715	1.00	77.32	OS15
ATOM	47613	CG	LYS	O	48	166.871	94.825	-62.520	1.00	77.32	OS15
ATOM	47614	CD	LYS	O	48	168.385	94.830	-62.762	1.00	77.32	OS15
ATOM	47615	CE	LYS	O	48	168.731	95.201	-64.204	1.00	77.32	OS15
ATOM	47616	NZ	LYS	O	48	170.198	95.273	-64.464	1.00	77.32	OS15
ATOM	47617	C	LYS	O	48	164.454	97.770	-61.921	1.00	68.14	OS15
ATOM	47618	O	LYS	O	48	165.105	98.373	-61.075	1.00	68.14	OS15
ATOM	47619	N	ASP	O	49	163.437	98.330	-62.566	1.00	44.93	OS15
ATOM	47620	CA	ASP	O	49	163.028	99.701	-62.276	1.00	44.93	OS15
ATOM	47621	CB	ASP	O	49	162.355	100.326	-63.506	1.00	46.09	OS15
ATOM	47622	CG	ASP	O	49	161.796	101.723	-63.233	1.00	46.09	OS15
ATOM	47623	OD1	ASP	O	49	161.948	102.219	-62.095	1.00	46.09	OS15
ATOM	47624	OD2	ASP	O	49	161.202	102.325	-64.160	1.00	46.09	OS15
ATOM	47625	C	ASP	O	49	162.055	99.686	-61.098	1.00	44.93	OS15
ATOM	47626	O	ASP	O	49	160.882	100.029	-61.250	1.00	44.93	OS15
ATOM	47627	N	HIS	O	50	162.542	99.284	-59.926	1.00	53.83	OS15
ATOM	47628	CA	HIS	O	50	161.703	99.222	-58.732	1.00	53.83	OS15
ATOM	47629	CB	HIS	O	50	162.493	98.723	-57.533	1.00	57.79	OS15
ATOM	47630	CG	HIS	O	50	163.218	97.442	-57.773	1.00	57.79	OS15
ATOM	47631	CD2	HIS	O	50	164.489	97.073	-57.490	1.00	57.79	OS15
ATOM	47632	ND1	HIS	O	50	162.606	96.335	-58.314	1.00	57.79	OS15
ATOM	47633	CE1	HIS	O	50	163.469	95.335	-58.350	1.00	57.79	OS15
ATOM	47634	NE2	HIS	O	50	164.619	95.756	-57.855	1.00	57.79	OS15
ATOM	47635	C	HIS	O	50	161.121	100.573	-58.365	1.00	53.83	OS15
ATOM	47636	O	HIS	O	50	159.933	100.682	-58.087	1.00	53.83	OS15
ATOM	47637	N	HIS	O	51	161.962	101.601	-58.342	1.00	42.13	OS15
ATOM	47638	CA	HIS	O	51	161.481	102.924	-57.993	1.00	42.13	OS15
ATOM	47639	CB	HIS	O	51	162.541	103.966	-58.291	1.00	56.12	OS15
ATOM	47640	CG	HIS	O	51	163.599	104.049	-57.245	1.00	56.12	OS15
ATOM	47641	CD2	HIS	O	51	163.994	105.074	-56.454	1.00	56.12	OS15



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ATOM	47642	ND1	HIS	O	51	164.377	102.969	-56.893	1.00	56.12	OS15
ATOM	47643	CE1	HIS	O	51	165.207	103.325	-55.926	1.00	56.12	OS15
ATOM	47644	NE2	HIS	O	51	164.994	104.598	-55.641	1.00	56.12	OS15
ATOM	47645	C	HIS	O	51	160.188	103.295	-58.705	1.00	42.13	OS15
ATOM	47646	O	HIS	O	51	159.370	104.034	-58.156	1.00	42.13	OS15
ATOM	47647	N	SER	O	52	159.999	102.798	-59.924	1.00	45.98	OS15
ATOM	47648	CA	SER	O	52	158.780	103.089	-60.670	1.00	45.98	OS15
ATOM	47649	CB	SER	O	52	158.997	102.894	-62.169	1.00	34.18	OS15
ATOM	47650	OG	SER	O	52	159.641	104.018	-62.741	1.00	34.18	OS15
ATOM	47651	C	SER	O	52	157.665	102.168	-60.208	1.00	45.98	OS15
ATOM	47652	O	SER	O	52	156.493	102.539	-60.228	1.00	45.98	OS15
ATOM	47653	N	HIS	O	53	158.039	100.967	-59.786	1.00	48.65	OS15
ATOM	47654	CA	HIS	O	53	157.074	99.984	-59.327	1.00	48.65	OS15
ATOM	47655	CB	HIS	O	53	157.780	98.693	-58.929	1.00	52.02	OS15
ATOM	47656	CG	HIS	O	53	156.846	97.620	-58.469	1.00	52.02	OS15
ATOM	47657	CD2	HIS	O	53	156.459	96.463	-59.057	1.00	52.02	OS15
ATOM	47658	ND1	HIS	O	53	156.158	97.695	-57.279	1.00	52.02	OS15
ATOM	47659	CE1	HIS	O	53	155.385	96.632	-57.152	1.00	52.02	OS15
ATOM	47660	NE2	HIS	O	53	155.548	95.869	-58.218	1.00	52.02	OS15
ATOM	47661	C	HIS	O	53	156.242	100.486	-58.160	1.00	48.65	OS15
ATOM	47662	O	HIS	O	53	155.046	100.195	-58.086	1.00	48.65	OS15
ATOM	47663	N	ARG	O	54	156.866	101.221	-57.241	1.00	54.86	OS15
ATOM	47664	CA	ARG	O	54	156.132	101.763	-56.096	1.00	54.86	OS15
ATOM	47665	CB	ARG	O	54	157.017	102.681	-55.259	1.00	42.46	OS15
ATOM	47666	CG	ARG	O	54	156.280	103.367	-54.136	1.00	42.46	OS15
ATOM	47667	CD	ARG	O	54	157.183	104.346	-53.386	1.00	42.46	OS15
ATOM	47668	NE	ARG	O	54	156.419	105.142	-52.423	1.00	42.46	OS15
ATOM	47669	CZ	ARG	O	54	156.544	106.460	-52.268	1.00	42.46	OS15
ATOM	47670	NH1	ARG	O	54	157.410	107.142	-53.009	1.00	42.46	OS15
ATOM	47671	NH2	ARG	O	54	155.788	107.101	-51.387	1.00	42.46	OS15
ATOM	47672	C	ARG	O	54	154.976	102.573	-56.656	1.00	54.86	OS15
ATOM	47673	O	ARG	O	54	153.829	102.390	-56.265	1.00	54.86	OS15
ATOM	47674	N	GLY	O	55	155.301	103.465	-57.587	1.00	51.44	OS15
ATOM	47675	CA	GLY	O	55	154.294	104.292	-58.214	1.00	51.44	OS15
ATOM	47676	C	GLY	O	55	153.104	103.442	-58.585	1.00	51.44	OS15
ATOM	47677	O	GLY	O	55	151.970	103.768	-58.225	1.00	51.44	OS15
ATOM	47678	N	LEU	O	56	153.357	102.349	-59.301	1.00	36.48	OS15
ATOM	47679	CA	LEU	O	56	152.285	101.449	-59.709	1.00	36.48	OS15
ATOM	47680	CB	LEU	O	56	152.862	100.247	-60.452	1.00	26.93	OS15
ATOM	47681	CG	LEU	O	56	151.886	99.087	-60.647	1.00	26.93	OS15
ATOM	47682	CD1	LEU	O	56	150.930	99.382	-61.781	1.00	26.93	OS15
ATOM	47683	CD2	LEU	O	56	152.672	97.847	-60.957	1.00	26.93	OS15
ATOM	47684	C	LEU	O	56	151.527	100.974	-58.467	1.00	36.48	OS15
ATOM	47685	O	LEU	O	56	150.303	101.072	-58.390	1.00	36.48	OS15
ATOM	47686	N	LEU	O	57	152.272	100.471	-57.492	1.00	54.64	OS15
ATOM	47687	CA	LEU	O	57	151.703	99.985	-56.245	1.00	54.64	OS15
ATOM	47688	CB	LEU	O	57	152.834	99.683	-55.279	1.00	55.65	OS15
ATOM	47689	CG	LEU	O	57	152.680	98.355	-54.560	1.00	55.65	OS15
ATOM	47690	CD1	LEU	O	57	152.236	97.288	-55.550	1.00	55.65	OS15
ATOM	47691	CD2	LEU	O	57	154.012	97.986	-53.905	1.00	55.65	OS15
ATOM	47692	C	LEU	O	57	150.734	100.984	-55.607	1.00	54.64	OS15
ATOM	47693	O	LEU	O	57	149.794	100.606	-54.906	1.00	54.64	OS15
ATOM	47694	N	MET	O	58	150.973	102.263	-55.857	1.00	44.16	OS15
ATOM	47695	CA	MET	O	58	150.130	103.307	-55.317	1.00	44.16	OS15
ATOM	47696	CB	MET	O	58	150.927	104.589	-55.146	1.00	59.54	OS15
ATOM	47697	CG	MET	O	58	152.125	104.471	-54.230	1.00	59.54	OS15
ATOM	47698	SD	MET	O	58	152.926	106.088	-54.044	1.00	59.54	OS15
ATOM	47699	CE	MET	O	58	152.725	106.751	-55.762	1.00	59.54	OS15
ATOM	47700	C	MET	O	58	148.946	103.589	-56.228	1.00	44.16	OS15
ATOM	47701	O	MET	O	58	147.834	103.839	-55.757	1.00	44.16	OS15
ATOM	47702	N	MET	O	59	149.182	103.576	-57.534	1.00	52.43	OS15
ATOM	47703	CA	MET	O	59	148.102	103.838	-58.474	1.00	52.43	OS15
ATOM	47704	CB	MET	O	59	148.613	103.827	-59.903	1.00	60.78	OS15
ATOM	47705	CG	MET	O	59	149.723	104.823	-60.129	1.00	60.78	OS15
ATOM	47706	SD	MET	O	59	150.147	104.910	-61.859	1.00	60.78	OS15
ATOM	47707	CE	MET	O	59	150.017	103.152	-62.329	1.00	60.78	OS15
ATOM	47708	C	MET	O	59	147.042	102.779	-58.304	1.00	52.43	OS15
ATOM	47709	O	MET	O	59	145.851	103.068	-58.365	1.00	52.43	OS15
ATOM	47710	N	VAL	O	60	147.473	101.546	-58.083	1.00	47.59	OS15
ATOM	47711	CA	VAL	O	60	146.512	100.481	-57.891	1.00	47.59	OS15
ATOM	47712	CB	VAL	O	60	147.191	99.114	-57.703	1.00	29.67	OS15
ATOM	47713	CG1	VAL	O	60	146.190	98.108	-57.125	1.00	29.67	OS15
ATOM	47714	CG2	VAL	O	60	147.705	98.616	-59.049	1.00	29.67	OS15
ATOM	47715	C	VAL	O	60	145.687	100.802	-56.663	1.00	47.59	OS15
ATOM	47716	O	VAL	O	60	144.469	100.906	-56.747	1.00	47.59	OS15
ATOM	47717	N	GLY	O	61	146.358	100.967	-55.527	1.00	67.70	OS15
ATOM	47718	CA	GLY	O	61	145.656	101.279	-54.293	1.00	67.70	OS15



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ATOM	47719	C	GLY	O	61	144.605	102.344	-54.522	1.00	67.70	OS15
ATOM	47720	O	GLY	O	61	143.420	102.129	-54.256	1.00	67.70	OS15
ATOM	47721	N	GLN	O	62	145.036	103.494	-55.032	1.00	61.77	OS15
ATOM	47722	CA	GLN	O	62	144.116	104.584	-55.298	1.00	61.77	OS15
ATOM	47723	CB	GLN	O	62	144.824	105.687	-56.084	1.00	73.23	OS15
ATOM	47724	CG	GLN	O	62	143.986	106.950	-56.307	1.00	73.23	OS15
ATOM	47725	CD	GLN	O	62	143.454	107.544	-55.010	1.00	73.23	OS15
ATOM	47726	OE1	GLN	O	62	144.199	107.718	-54.046	1.00	73.23	OS15
ATOM	47727	NE2	GLN	O	62	142.161	107.864	-54.987	1.00	73.23	OS15
ATOM	47928	C	GLN	O	62	142.907	104.065	-56.081	1.00	61.77	OS15
ATOM	47729	O	GLN	O	62	141.770	104.434	-55.802	1.00	61.77	OS15
ATOM	47730	N	ARG	O	63	143.141	103.192	-57.050	1.00	41.11	OS15
ATOM	47731	CA	ARG	O	63	142.034	102.672	-57.830	1.00	41.11	OS15
ATOM	47732	CB	ARG	O	63	142.530	101.920	-59.061	1.00	52.90	OS15
ATOM	47733	CG	ARG	O	63	141.388	101.465	-59.949	1.00	52.90	OS15
ATOM	47734	CD	ARG	O	63	141.878	100.990	-61.306	1.00	52.90	OS15
ATOM	47735	NE	ARG	O	63	142.640	99.746	-61.218	1.00	52.90	OS15
ATOM	47736	CZ	ARG	O	63	143.058	99.073	-62.281	1.00	52.90	OS15
ATOM	47737	NH1	ARG	O	63	142.785	99.531	-63.490	1.00	52.90	OS15
ATOM	47738	NH2	ARG	O	63	143.734	97.947	-62.140	1.00	52.90	OS15
ATOM	47739	C	ARG	O	63	141.133	101.759	-57.024	1.00	41.11	OS15
ATOM	47740	O	ARG	O	63	139.962	102.061	-56.831	1.00	41.11	OS15
ATOM	47741	N	ARG	O	64	141.665	100.638	-56.551	1.00	48.02	OS15
ATOM	47742	CA	ARG	O	64	140.834	99.721	-55.789	1.00	48.02	OS15
ATOM	47743	CB	ARG	O	64	141.644	98.520	-55.281	1.00	121.78	OS15
ATOM	47744	CG	ARG	O	64	143.023	98.828	-54.756	1.00	121.78	OS15
ATOM	47745	CD	ARG	O	64	143.745	97.532	-54.421	1.00	121.78	OS15
ATOM	47746	NE	ARG	O	64	143.054	96.791	-53.369	1.00	121.78	OS15
ATOM	47747	CZ	ARG	O	64	143.019	97.162	-52.092	1.00	121.78	OS15
ATOM	47748	NH1	ARG	O	64	143.641	98.267	-51.699	1.00	121.78	OS15
ATOM	47749	NH2	ARG	O	64	142.357	96.429	-51.208	1.00	121.78	OS15
ATOM	47750	C	ARG	O	64	140.129	100.435	-54.647	1.00	48.02	OS15
ATOM	47751	O	ARG	O	64	139.058	100.022	-54.209	1.00	48.02	OS15
ATOM	47752	N	ARG	O	65	140.699	101.535	-54.182	1.00	48.46	OS15
ATOM	47753	CA	ARG	O	65	140.047	102.244	-53.106	1.00	48.46	OS15
ATOM	47754	CB	ARG	O	65	141.034	103.182	-52.428	1.00	55.80	OS15
ATOM	47755	CG	ARG	O	65	140.950	103.104	-50.928	1.00	55.80	OS15
ATOM	47756	CD	ARG	O	65	142.288	103.400	-50.315	1.00	55.80	OS15
ATOM	47757	NE	ARG	O	65	142.830	104.631	-50.859	1.00	55.80	OS15
ATOM	47758	CZ	ARG	O	65	144.005	104.712	-51.465	1.00	55.80	OS15
ATOM	47759	NH1	ARG	O	65	144.753	103.622	-51.591	1.00	55.80	OS15
ATOM	47760	NH2	ARG	O	65	144.424	105.874	-51.959	1.00	55.80	OS15
ATOM	47761	C	ARG	O	65	138.835	103.003	-53.657	1.00	48.46	OS15
ATOM	47762	O	ARG	O	65	137.773	103.046	-53.021	1.00	48.46	OS15
ATOM	47763	N	LEU	O	66	138.989	103.582	-54.849	1.00	49.48	OS15
ATOM	47764	CA	LEU	O	66	137.904	104.321	-55.498	1.00	49.48	OS15
ATOM	47765	CB	LEU	O	66	138.393	104.996	-56.775	1.00	30.48	OS15
ATOM	47766	CG	LEU	O	66	138.904	106.417	-56.571	1.00	30.48	OS15
ATOM	47767	CD1	LEU	O	66	139.439	106.969	-57.866	1.00	30.48	OS15
ATOM	47768	CD2	LEU	O	66	137.772	107.278	-56.082	1.00	30.48	OS15
ATOM	47769	C	LEU	O	66	136.758	103.395	-55.843	1.00	49.48	OS15
ATOM	47770	O	LEU	O	66	135.597	103.746	-55.677	1.00	49.48	OS15
ATOM	47771	N	LEU	O	67	137.092	102.211	-56.336	1.00	48.58	OS15
ATOM	47772	CA	LEU	O	67	136.077	101.238	-56.689	1.00	48.58	OS15
ATOM	47773	CB	LEU	O	67	136.718	100.041	-57.382	1.00	40.58	OS15
ATOM	47774	CG	LEU	O	67	137.343	100.490	-58.691	1.00	40.58	OS15
ATOM	47775	CD1	LEU	O	67	137.954	99.324	-59.411	1.00	40.58	OS15
ATOM	47776	CD2	LEU	O	67	136.263	101.126	-59.537	1.00	40.58	OS15
ATOM	47777	C	LEU	O	67	135.322	100.780	-55.454	1.00	48.58	OS15
ATOM	47778	O	LEU	O	67	134.099	100.648	-55.483	1.00	48.58	OS15
ATOM	47779	N	ARG	O	68	136.049	100.535	-54.368	1.00	57.98	OS15
ATOM	47780	CA	ARG	O	68	135.410	100.101	-53.137	1.00	57.98	OS15
ATOM	47781	CB	ARG	O	68	136.402	100.125	-51.982	1.00	89.61	OS15
ATOM	47782	CG	ARG	O	68	135.770	99.792	-50.649	1.00	89.61	OS15
ATOM	47783	CD	ARG	O	68	136.715	100.112	-49.517	1.00	89.61	OS15
ATOM	47784	NE	ARG	O	68	137.886	99.245	-49.530	1.00	89.61	OS15
ATOM	47785	CZ	ARG	O	68	139.127	99.659	-49.295	1.00	89.61	OS15
ATOM	47786	NH1	ARG	O	68	139.376	100.938	-49.031	1.00	89.61	OS15
ATOM	47787	NH2	ARG	O	68	140.123	98.786	-49.314	1.00	89.61	OS15
ATOM	47788	C	ARG	O	68	134.276	101.074	-52.856	1.00	57.98	OS15
ATOM	47789	O	ARG	O	68	133.137	100.673	-52.584	1.00	57.98	OS15
ATOM	47790	N	TYR	O	69	134.598	102.359	-52.938	1.00	55.57	OS15
ATOM	47791	CA	TYR	O	69	133.617	103.411	-52.705	1.00	55.57	OS15
ATOM	47792	CB	TYR	O	69	134.250	104.786	-52.882	1.00	50.40	OS15
ATOM	47793	CG	TYR	O	69	133.225	105.880	-53.031	1.00	50.40	OS15
ATOM	47794	CD1	TYR	O	69	132.539	106.370	-51.929	1.00	50.40	OS15
ATOM	47795	CE1	TYR	O	69	131.575	107.358	-52.068	1.00	50.40	OS15



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ATOM	47796	CD2	TYR	O	69	132.921	106.402	-54.283	1.00	50.40	OS15
ATOM	47797	CE2	TYR	O	69	131.959	107.388	-54.436	1.00	50.40	OS15
ATOM	47798	CZ	TYR	O	69	131.287	107.864	-53.327	1.00	50.40	OS15
ATOM	47799	OH	TYR	O	69	130.330	108.846	-53.473	1.00	50.40	OS15
ATOM	47800	C	TYR	O	69	132.446	103.309	-53.662	1.00	55.57	OS15
ATOM	47801	O	TYR	O	69	131.301	103.451	-53.258	1.00	55.57	OS15
ATOM	47802	N	LEU	O	70	132.749	103.094	-54.937	1.00	42.71	OS15
ATOM	47803	CA	LEU	O	70	131.719	102.990	-55.957	1.00	42.71	OS15
ATOM	47804	CB	LEU	O	70	132.358	102.799	-57.340	1.00	54.10	OS15
ATOM	47805	CG	LEU	O	70	131.546	103.068	-58.613	1.00	54.10	OS15
ATOM	47806	CD1	LEU	O	70	130.472	102.027	-58.766	1.00	54.10	OS15
ATOM	47807	CD2	LEU	O	70	130.942	104.463	-58.561	1.00	54.10	OS15
ATOM	47808	C	LEU	O	70	130.809	101.822	-55.627	1.00	42.71	OS15
ATOM	47809	O	LEU	O	70	129.602	101.992	-55.518	1.00	42.71	OS15
ATOM	47810	N	GLN	O	71	131.380	100.637	-55.451	1.00	57.99	OS15
ATOM	47811	CA	GLN	O	71	130.568	99.476	-55.132	1.00	57.99	OS15
ATOM	47812	CB	GLN	O	71	131.433	98.328	-54.662	1.00	124.63	OS15
ATOM	47813	CG	GLN	O	71	130.846	96.991	-54.993	1.00	124.63	OS15
ATOM	47814	CD	GLN	O	71	131.658	95.871	-54.403	1.00	124.63	OS15
ATOM	47815	OE1	GLN	O	71	132.757	96.091	-53.891	1.00	124.63	OS15
ATOM	47816	NE2	GLN	O	71	131.130	94.657	-54.472	1.00	124.63	OS15
ATOM	47817	C	GLN	O	71	129.599	99.858	-54.030	1.00	57.99	OS15
ATOM	47818	O	GLN	O	71	128.394	99.753	-54.208	1.00	57.99	OS15
ATOM	47819	N	ARG	O	72	130.131	100.322	-52.901	1.00	65.29	OS15
ATOM	47820	CA	ARG	O	72	129.309	100.737	-51.763	1.00	65.29	OS15
ATOM	47821	CB	ARG	O	72	130.206	101.343	-50.680	1.00	75.16	OS15
ATOM	47822	CG	ARG	O	72	129.499	102.193	-49.629	1.00	75.16	OS15
ATOM	47823	CD	ARG	O	72	130.386	102.314	-48.406	1.00	75.16	OS15
ATOM	47824	NE	ARG	O	72	131.803	102.388	-48.769	1.00	75.16	OS15
ATOM	47825	CZ	ARG	O	72	132.509	103.515	-48.824	1.00	75.16	OS15
ATOM	47826	NH1	ARG	O	72	131.931	104.679	-48.533	1.00	75.16	OS15
ATOM	47827	NH2	ARG	O	72	133.793	103.479	-49.168	1.00	75.16	OS15
ATOM	47828	C	ARG	O	72	128.172	101.709	-52.117	1.00	65.29	OS15
ATOM	47829	O	ARG	O	72	127.045	101.521	-51.666	1.00	65.29	OS15
ATOM	47830	N	GLU	O	73	128.454	102.742	-52.912	1.00	67.80	OS15
ATOM	47831	CA	GLU	O	73	127.416	103.698	-53.297	1.00	67.80	OS15
ATOM	47832	CB	GLU	O	73	128.024	104.996	-53.825	1.00	105.33	OS15
ATOM	47833	CG	GLU	O	73	128.685	105.815	-52.743	1.00	105.33	OS15
ATOM	47834	CD	GLU	O	73	127.895	105.786	-51.443	1.00	105.33	OS15
ATOM	47835	OE1	GLU	O	73	126.680	106.081	-51.483	1.00	105.33	OS15
ATOM	47836	OE2	GLU	O	73	128.487	105.466	-50.385	1.00	105.33	OS15
ATOM	47837	C	GLU	O	73	126.497	103.102	-54.344	1.00	67.80	OS15
ATOM	47838	O	GLU	O	73	125.449	102.557	-54.004	1.00	67.80	OS15
ATOM	47839	N	ASP	O	74	126.881	103.195	-55.613	1.00	62.10	OS15
ATOM	47840	CA	ASP	O	74	126.062	102.636	-56.685	1.00	62.10	OS15
ATOM	47841	CB	ASP	O	74	125.960	103.640	-57.832	1.00	105.25	OS15
ATOM	47842	CG	ASP	O	74	124.889	103.271	-58.830	1.00	105.25	OS15
ATOM	47843	OD1	ASP	O	74	124.934	102.148	-59.374	1.00	105.25	OS15
ATOM	47844	OD2	ASP	O	74	123.998	104.109	-59.070	1.00	105.25	OS15
ATOM	47845	C	ASP	O	74	126.628	101.306	-57.215	1.00	62.10	OS15
ATOM	47846	O	ASP	O	74	127.468	101.301	-58.118	1.00	62.10	OS15
ATOM	47847	N	PRO	O	75	126.168	100.159	-56.670	1.00	55.97	OS15
ATOM	47848	CD	PRO	O	75	125.027	99.984	-55.757	1.00	44.57	OS15
ATOM	47849	CA	PRO	O	75	126.664	98.853	-57.127	1.00	55.97	OS15
ATOM	47850	CB	PRO	O	75	125.892	97.862	-56.255	1.00	44.57	OS15
ATOM	47851	CG	PRO	O	75	124.596	98.553	-56.057	1.00	44.57	OS15
ATOM	47852	C	PRO	O	75	126.416	98.633	-58.617	1.00	55.97	OS15
ATOM	47853	O	PRO	O	75	127.143	97.886	-59.279	1.00	55.97	OS15
ATOM	47854	N	GLU	O	76	125.390	99.289	-59.147	1.00	95.64	OS15
ATOM	47855	CA	GLU	O	76	125.090	99.156	-60.561	1.00	95.64	OS15
ATOM	47856	CB	GLU	O	76	123.787	99.878	-60.904	1.00	155.17	OS15
ATOM	47857	CG	GLU	O	76	123.395	99.705	-62.354	1.00	155.17	OS15
ATOM	47858	CD	GLU	O	76	123.642	98.288	-62.838	1.00	155.17	OS15
ATOM	47859	OE1	GLU	O	76	123.033	97.354	-62.273	1.00	155.17	OS15
ATOM	47860	OE2	GLU	O	76	124.452	98.107	-63.774	1.00	155.17	OS15
ATOM	47861	C	GLU	O	76	126.245	99.724	-61.391	1.00	95.64	OS15
ATOM	47862	O	GLU	O	76	126.938	98.978	-62.091	1.00	95.64	OS15
ATOM	47863	N	ARG	O	77	126.450	101.038	-61.304	1.00	73.52	OS15
ATOM	47864	CA	ARG	O	77	127.525	101.693	-62.038	1.00	73.52	OS15
ATOM	47865	CB	ARG	O	77	127.764	103.104	-61.506	1.00	62.38	OS15
ATOM	47866	CG	ARG	O	77	126.675	104.095	-61.832	1.00	62.38	OS15
ATOM	47867	CD	ARG	O	77	127.161	105.525	-61.614	1.00	62.38	OS15
ATOM	47868	NE	ARG	O	77	127.178	105.921	-60.207	1.00	62.38	OS15
ATOM	47869	CZ	ARG	O	77	127.896	106.935	-59.727	1.00	62.38	OS15
ATOM	47870	NH1	ARG	O	77	128.660	107.645	-60.545	1.00	62.38	OS15
ATOM	47871	NH2	ARG	O	77	127.844	107.254	-58.434	1.00	62.38	OS15
ATOM	47872	C	ARG	O	77	128.818	100.896	-61.914	1.00	73.52	OS15



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ATOM	47873	O	ARG	O	77	129.642	100.886	-62.829	1.00	73.52	OS15
ATOM	47874	N	TYR	O	78	128.987	100.235	-60.773	1.00	52.31	OS15
ATOM	47875	CA	TYR	O	78	130.169	99.428	-60.497	1.00	52.31	OS15
ATOM	47876	CB	TYR	O	78	130.056	98.840	-59.094	1.00	61.31	OS15
ATOM	47877	CG	TYR	O	78	131.202	97.950	-58.704	1.00	61.31	OS15
ATOM	47878	CD1	TYR	O	78	132.480	98.465	-58.542	1.00	61.31	OS15
ATOM	47879	CE1	TYR	O	78	133.543	97.650	-58.188	1.00	61.31	OS15
ATOM	47880	CD2	TYR	O	78	131.008	96.592	-58.502	1.00	61.31	OS15
ATOM	47881	CE2	TYR	O	78	132.057	95.766	-58.149	1.00	61.31	OS15
ATOM	47882	CZ	TYR	O	78	133.325	96.299	-57.993	1.00	61.31	OS15
ATOM	47883	OH	TYR	O	78	134.380	95.475	-57.661	1.00	61.31	OS15
ATOM	47884	C	TYR	O	78	130.312	98.307	-61.520	1.00	52.31	OS15
ATOM	47885	O	TYR	O	78	131.222	98.322	-62.356	1.00	52.31	OS15
ATOM	47886	N	ARG	O	79	129.410	97.331	-61.440	1.00	80.04	OS15
ATOM	47887	CA	ARG	O	79	129.416	96.201	-62.361	1.00	80.04	OS15
ATOM	47888	CB	ARG	O	79	128.101	95.431	-62.251	1.00	163.84	OS15
ATOM	47889	CG	ARG	O	79	127.818	94.955	-60.840	1.00	163.84	OS15
ATOM	47890	CD	ARG	O	79	126.344	95.060	-60.498	1.00	163.84	OS15
ATOM	47891	NE	ARG	O	79	126.116	94.942	-59.059	1.00	163.84	OS15
ATOM	47892	CZ	ARG	O	79	124.931	95.093	-58.473	1.00	163.84	OS15
ATOM	47893	NH1	ARG	O	79	123.858	95.368	-59.202	1.00	163.84	OS15
ATOM	47894	NH2	ARG	O	79	124.821	94.975	-57.156	1.00	163.84	OS15
ATOM	47895	C	ARG	O	79	129.559	96.798	-63.742	1.00	80.04	OS15
ATOM	47896	O	ARG	O	79	130.321	96.316	-64.573	1.00	80.04	OS15
ATOM	47897	N	ALA	O	80	128.828	97.880	-63.959	1.00	74.93	OS15
ATOM	47898	CA	ALA	O	80	128.854	98.590	-65.222	1.00	74.93	OS15
ATOM	47899	CB	ALA	O	80	128.002	99.839	-65.114	1.00	76.42	OS15
ATOM	47900	C	ALA	O	80	130.275	98.972	-65.619	1.00	74.93	OS15
ATOM	47901	O	ALA	O	80	130.725	98.676	-66.728	1.00	74.93	OS15
ATOM	47902	N	LEU	O	81	130.977	99.627	-64.700	1.00	62.53	OS15
ATOM	47903	CA	LEU	O	81	132.337	100.085	-64.951	1.00	62.53	OS15
ATOM	47904	CB	LEU	O	81	132.815	100.982	-63.803	1.00	42.78	OS15
ATOM	47905	CG	LEU	O	81	133.930	101.983	-64.140	1.00	42.78	OS15
ATOM	47906	CD1	LEU	O	81	134.292	102.844	-62.926	1.00	42.78	OS15
ATOM	47907	CD2	LEU	O	81	135.136	101.222	-64.616	1.00	42.78	OS15
ATOM	47908	C	LEU	O	81	133.334	98.955	-65.152	1.00	62.53	OS15
ATOM	47909	O	LEU	O	81	134.001	98.885	-66.186	1.00	62.53	OS15
ATOM	47910	N	ILE	O	82	133.454	98.088	-64.154	1.00	80.17	OS15
ATOM	47911	CA	ILE	O	82	134.392	96.979	-64.239	1.00	80.17	OS15
ATOM	47912	CB	ILE	O	82	134.089	95.897	-63.199	1.00	74.81	OS15
ATOM	47913	CG2	ILE	O	82	134.988	94.686	-63.428	1.00	74.81	OS15
ATOM	47914	CG1	ILE	O	82	134.294	96.457	-61.798	1.00	74.81	OS15
ATOM	47915	CD1	ILE	O	82	134.164	95.413	-60.745	1.00	74.81	OS15
ATOM	47916	C	ILE	O	82	134.318	96.346	-65.612	1.00	80.17	OS15
ATOM	47917	O	ILE	O	82	135.243	96.476	-66.411	1.00	80.17	OS15
ATOM	47918	N	GLU	O	83	133.205	95.666	-65.872	1.00	105.98	OS15
ATOM	47919	CA	GLU	O	83	132.982	94.999	-67.144	1.00	105.98	OS15
ATOM	47920	CB	GLU	O	83	131.482	94.759	-67.345	1.00	179.29	OS15
ATOM	47921	CG	GLU	O	83	131.116	93.944	-68.577	1.00	179.29	OS15
ATOM	47922	CD	GLU	O	83	130.821	94.808	-69.790	1.00	179.29	OS15
ATOM	47923	OE1	GLU	O	83	131.731	95.524	-70.257	1.00	179.29	OS15
ATOM	47924	OE2	GLU	O	83	129.670	94.770	-70.277	1.00	179.29	OS15
ATOM	47925	C	GLU	O	83	133.548	95.841	-68.280	1.00	105.98	OS15
ATOM	47926	O	GLU	O	83	134.327	95.348	-69.101	1.00	105.98	OS15
ATOM	47927	N	LYS	O	84	133.173	97.117	-68.313	1.00	65.65	OS15
ATOM	47928	CA	LYS	O	84	133.655	98.022	-69.351	1.00	65.65	OS15
ATOM	47929	CB	LYS	O	84	133.035	99.405	-69.158	1.00	67.80	OS15
ATOM	47930	CG	LYS	O	84	133.251	100.349	-70.317	1.00	67.80	OS15
ATOM	47931	CD	LYS	O	84	132.479	101.633	-70.081	1.00	67.80	OS15
ATOM	47932	CE	LYS	O	84	132.704	102.650	-71.187	1.00	67.80	OS15
ATOM	47933	NZ	LYS	O	84	132.119	103.975	-70.831	1.00	67.80	OS15
ATOM	47934	C	LYS	O	84	135.187	98.104	-69.318	1.00	65.65	OS15
ATOM	47935	O	LYS	O	84	135.861	97.403	-70.076	1.00	65.65	OS15
ATOM	47936	N	LEU	O	85	135.733	98.942	-68.437	1.00	91.52	OS15
ATOM	47937	CA	LEU	O	85	137.186	99.092	-68.314	1.00	91.52	OS15
ATOM	47938	CB	LEU	O	85	137.571	99.604	-66.922	1.00	71.23	OS15
ATOM	47939	CG	LEU	O	85	137.600	101.103	-66.612	1.00	71.23	OS15
ATOM	47940	CD1	LEU	O	85	138.206	101.291	-65.239	1.00	71.23	OS15
ATOM	47941	CD2	LEU	O	85	138.432	101.864	-67.629	1.00	71.23	OS15
ATOM	47942	C	LEU	O	85	137.926	97.784	-68.552	1.00	91.52	OS15
ATOM	47943	O	LEU	O	85	138.989	97.769	-69.169	1.00	91.52	OS15
ATOM	47944	N	GLY	O	86	137.358	96.694	-68.047	1.00	89.87	OS15
ATOM	47945	CA	GLY	O	86	137.976	95.390	-68.195	1.00	89.87	OS15
ATOM	47946	C	GLY	O	86	138.819	95.033	-66.982	1.00	89.87	OS15
ATOM	47947	O	GLY	O	86	139.855	94.380	-67.118	1.00	89.87	OS15
ATOM	47948	N	ILE	O	87	138.364	95.454	-65.799	1.00	99.49	OS15
ATOM	47949	CA	ILE	O	87	139.064	95.210	-64.531	1.00	99.49	OS15



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ATOM	47950	CB	ILE	O	87	138.827	96.377	-63.536	1.00	66.56	OS15
ATOM	47951	CG2	ILE	O	87	139.165	95.952	-62.110	1.00	66.56	OS15
ATOM	47952	CG1	ILE	O	87	139.670	97.586	-63.957	1.00	66.56	OS15
ATOM	47953	CD1	ILE	O	87	139.553	98.798	-63.032	1.00	66.56	OS15
ATOM	47954	C	ILE	O	87	138.684	93.905	-63.836	1.00	99.49	OS15
ATOM	47955	O	ILE	O	87	137.651	93.305	-64.141	1.00	99.49	OS15
ATOM	47956	N	ARG	O	88	139.538	93.487	-62.900	1.00155.65	OS15	OS15
ATOM	47957	CA	ARG	O	88	139.362	92.269	-62.117	1.00155.65	OS15	OS15
ATOM	47958	CB	ARG	O	88	137.880	91.994	-61.885	1.00137.35	OS15	OS15
ATOM	47959	CG	ARG	O	88	137.194	93.044	-61.055	1.00137.35	OS15	OS15
ATOM	47960	CD	ARG	O	88	137.146	92.613	-59.617	1.00137.35	OS15	OS15
ATOM	47961	NE	ARG	O	88	135.801	92.777	-59.079	1.00137.35	OS15	OS15
ATOM	47962	CZ	ARG	O	88	135.354	92.173	-57.983	1.00137.35	OS15	OS15
ATOM	47963	NH1	ARG	O	88	136.150	91.356	-57.302	1.00137.35	OS15	OS15
ATOM	47964	NH2	ARG	O	88	134.109	92.384	-57.567	1.00137.35	OS15	OS15
ATOM	47965	C	ARG	O	88	140.005	91.086	-62.823	1.00155.65	OS15	OS15
ATOM	47966	O	ARG	O	88	141.148	91.172	-63.275	1.00155.65	OS15	OS15
ATOM	47967	N	GLY	O	89	139.269	89.983	-62.918	1.00197.98	OS15	OS15
ATOM	47968	CA	GLY	O	89	139.792	88.801	-63.576	1.00197.98	OS15	OS15
ATOM	47969	C	GLY	O	89	140.902	88.137	-62.785	1.00197.98	OS15	OS15
ATOM	47970	O	GLY	O	89	140.744	86.953	-62.419	1.00197.98	OS15	OS15
ATOM	47971	OXT	GLY	O	89	141.932	88.798	-62.531	1.00139.66	OS15	OS15
TER	47971		GLY	O	89						OS15
ATOM	47972	CB	MET	P	1	108.335	66.410	3.960	1.00	77.22	PS16
ATOM	47973	CG	MET	P	1	107.193	66.980	4.758	1.00	77.22	PS16
ATOM	47974	SD	MET	P	1	107.046	66.067	6.283	1.00	77.22	PS16
ATOM	47975	CE	MET	P	1	108.401	66.796	7.229	1.00	77.22	PS16
ATOM	47976	C	MET	P	1	109.380	68.634	3.883	1.00	65.87	PS16
ATOM	47977	O	MET	P	1	110.010	68.517	4.931	1.00	65.87	PS16
ATOM	47978	N	MET	P	1	110.264	66.831	2.470	1.00	65.87	PS16
ATOM	47979	CA	MET	P	1	109.024	67.419	3.058	1.00	65.87	PS16
ATOM	47980	N	VAL	P	2	108.945	69.798	3.416	1.00	55.74	PS16
ATOM	47981	CA	VAL	P	2	109.244	71.059	4.085	1.00	55.74	PS16
ATOM	47982	CB	VAL	P	2	108.657	72.234	3.294	1.00	72.38	PS16
ATOM	47983	CG1	VAL	P	2	107.190	71.968	3.003	1.00	72.38	PS16
ATOM	47984	CG2	VAL	P	2	108.841	73.526	4.075	1.00	72.38	PS16
ATOM	47985	C	VAL	P	2	108.744	71.125	5.517	1.00	55.74	PS16
ATOM	47986	O	VAL	P	2	107.648	70.677	5.830	1.00	55.74	PS16
ATOM	47987	N	LYS	P	3	109.557	71.691	6.392	1.00	57.26	PS16
ATOM	47988	CA	LYS	P	3	109.166	71.806	7.782	1.00	57.26	PS16
ATOM	47989	CB	LYS	P	3	110.050	70.918	8.650	1.00	55.55	PS16
ATOM	47990	CG	LYS	P	3	109.816	69.423	8.516	1.00	55.55	PS16
ATOM	47991	CD	LYS	P	3	110.414	68.753	9.738	1.00	55.55	PS16
ATOM	47992	CE	LYS	P	3	110.410	67.252	9.650	1.00	55.55	PS16
ATOM	47993	NZ	LYS	P	3	111.184	66.690	10.792	1.00	55.55	PS16
ATOM	47994	C	LYS	P	3	109.261	73.239	8.292	1.00	57.26	PS16
ATOM	47995	O	LYS	P	3	109.652	74.152	7.564	1.00	57.26	PS16
ATOM	47996	N	ILE	P	4	108.882	73.429	9.549	1.00	34.36	PS16
ATOM	47997	CA	ILE	P	4	108.957	74.734	10.196	1.00	34.36	PS16
ATOM	47998	CB	ILE	P	4	107.563	75.262	10.572	1.00	36.80	PS16
ATOM	47999	CG2	ILE	P	4	107.676	76.312	11.665	1.00	36.80	PS16
ATOM	48000	CG1	ILE	P	4	106.863	75.813	9.333	1.00	36.80	PS16
ATOM	48001	CD1	ILE	P	4	105.501	76.397	9.621	1.00	36.80	PS16
ATOM	48002	C	ILE	P	4	109.700	74.380	11.457	1.00	34.36	PS16
ATOM	48003	O	ILE	P	4	109.176	73.639	12.272	1.00	34.36	PS16
ATOM	48004	N	ARG	P	5	110.917	74.872	11.630	1.00	44.11	PS16
ATOM	48005	CA	ARG	P	5	111.651	74.489	12.823	1.00	44.11	PS16
ATOM	48006	CB	ARG	P	5	112.414	73.193	12.571	1.00	55.16	PS16
ATOM	48007	CG	ARG	P	5	113.573	73.351	11.631	1.00	55.16	PS16
ATOM	48008	CD	ARG	P	5	114.111	72.012	11.172	1.00	55.16	PS16
ATOM	48009	NE	ARG	P	5	115.229	72.206	10.253	1.00	55.16	PS16
ATOM	48010	CZ	ARG	P	5	115.613	71.335	9.324	1.00	55.16	PS16
ATOM	48011	NH1	ARG	P	5	114.980	70.175	9.164	1.00	55.16	PS16
ATOM	48012	NH2	ARG	P	5	116.627	71.646	8.531	1.00	55.16	PS16
ATOM	48013	C	ARG	P	5	112.626	75.530	13.282	1.00	44.11	PS16
ATOM	48014	O	ARG	P	5	112.680	76.629	12.742	1.00	44.11	PS16
ATOM	48015	N	LEU	P	6	113.411	75.159	14.283	1.00	45.87	PS16
ATOM	48016	CA	LEU	P	6	114.406	76.050	14.842	1.00	45.87	PS16
ATOM	48017	CB	LEU	P	6	114.471	75.859	16.354	1.00	38.34	PS16
ATOM	48018	CG	LEU	P	6	113.388	76.597	17.131	1.00	38.34	PS16
ATOM	48019	CD1	LEU	P	6	112.023	76.020	16.808	1.00	38.34	PS16
ATOM	48020	CD2	LEU	P	6	113.695	76.491	18.609	1.00	38.34	PS16
ATOM	48021	C	LEU	P	6	115.803	75.869	14.243	1.00	45.87	PS16
ATOM	48022	O	LEU	P	6	116.214	74.763	13.886	1.00	45.87	PS16
ATOM	48023	N	ALA	P	7	116.530	76.974	14.132	1.00	38.76	PS16
ATOM	48024	CA	ALA	P	7	117.881	76.942	13.601	1.00	38.76	PS16
ATOM	48025	CB	ALA	P	7	117.918	77.586	12.226	1.00	6.72	PS16



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ATOM	48026	C	ALA	P	7	118.758	77.706	14.584	1.00	38.76	PS16
ATOM	48027	O	ALA	P	7	118.516	78.880	14.878	1.00	38.76	PS16
ATOM	48028	N	ARG	P	8	119.761	77.017	15.110	1.00	58.60	PS16
ATOM	48029	CA	ARG	P	8	120.678	77.599	16.072	1.00	58.60	PS16
ATOM	48030	CB	ARG	P	8	121.662	76.548	16.535	1.00	49.52	PS16
ATOM	48031	CG	ARG	P	8	121.487	76.148	17.957	1.00	49.52	PS16
ATOM	48032	CD	ARG	P	8	122.585	76.720	18.786	1.00	49.52	PS16
ATOM	48033	NE	ARG	P	8	122.477	76.261	20.162	1.00	49.52	PS16
ATOM	48034	CZ	ARG	P	8	123.368	76.549	21.107	1.00	49.52	PS16
ATOM	48035	NH1	ARG	P	8	124.439	77.296	20.813	1.00	49.52	PS16
ATOM	48036	NH2	ARG	P	8	123.182	76.106	22.347	1.00	49.52	PS16
ATOM	48037	C	ARG	P	8	121.446	78.758	15.483	1.00	58.60	PS16
ATOM	48038	O	ARG	P	8	122.029	78.638	14.409	1.00	58.60	PS16
ATOM	48039	N	PHE	P	9	121.459	79.881	16.190	1.00	51.29	PS16
ATOM	48040	CA	PHE	P	9	122.181	81.052	15.720	1.00	51.29	PS16
ATOM	48041	CB	PHE	P	9	121.242	81.986	14.971	1.00	49.78	PS16
ATOM	48042	CG	PHE	P	9	121.241	81.769	13.497	1.00	49.78	PS16
ATOM	48043	CD1	PHE	P	9	122.327	82.160	12.730	1.00	49.78	PS16
ATOM	48044	CD2	PHE	P	9	120.163	81.163	12.869	1.00	49.78	PS16
ATOM	48045	CE1	PHE	P	9	122.342	81.953	11.351	1.00	49.78	PS16
ATOM	48046	CE2	PHE	P	9	120.163	80.950	11.485	1.00	49.78	PS16
ATOM	48047	CZ	PHE	P	9	121.256	81.346	10.725	1.00	49.78	PS16
ATOM	48048	C	PHE	P	9	122.854	81.794	16.850	1.00	51.29	PS16
ATOM	48049	O	PHE	P	9	123.575	82.767	16.628	1.00	51.29	PS16
ATOM	48050	N	GLY	P	10	122.640	81.321	18.067	1.00	50.82	PS16
ATOM	48051	CA	GLY	P	10	123.247	81.987	19.201	1.00	50.82	PS16
ATOM	48052	C	GLY	P	10	124.769	81.973	19.219	1.00	50.82	PS16
ATOM	48053	O	GLY	P	10	125.440	82.634	18.418	1.00	50.82	PS16
ATOM	48054	N	SER	P	11	125.297	81.201	20.164	1.00	61.18	PS16
ATOM	48055	CA	SER	P	11	126.724	81.031	20.379	1.00	61.18	PS16
ATOM	48056	CB	SER	P	11	127.415	82.378	20.505	1.00	44.05	PS16
ATOM	48057	OG	SER	P	11	126.600	83.279	21.228	1.00	44.05	PS16
ATOM	48058	C	SER	P	11	126.827	80.266	21.679	1.00	61.18	PS16
ATOM	48059	O	SER	P	11	125.826	80.084	22.371	1.00	61.18	PS16
ATOM	48060	N	LYS	P	12	128.032	79.827	22.015	1.00	62.87	PS16
ATOM	48061	CA	LYS	P	12	128.231	79.042	23.222	1.00	62.87	PS16
ATOM	48062	CB	LYS	P	12	129.711	78.937	23.539	1.00	61.60	PS16
ATOM	48063	CG	LYS	P	12	130.213	77.520	23.586	1.00	61.60	PS16
ATOM	48064	CD	LYS	P	12	131.605	77.535	24.150	1.00	61.60	PS16
ATOM	48065	CE	LYS	P	12	132.338	76.252	23.880	1.00	61.60	PS16
ATOM	48066	NZ	LYS	P	12	133.667	76.294	24.568	1.00	61.60	PS16
ATOM	48067	C	LYS	P	12	127.486	79.559	24.444	1.00	62.87	PS16
ATOM	48068	O	LYS	P	12	127.679	80.694	24.884	1.00	62.87	PS16
ATOM	48069	N	HIS	P	13	126.630	78.701	24.984	1.00	72.75	PS16
ATOM	48070	CA	HIS	P	13	125.839	79.028	26.154	1.00	72.75	PS16
ATOM	48071	CB	HIS	P	13	126.757	79.324	27.328	1.00	70.67	PS16
ATOM	48072	CG	HIS	P	13	127.691	78.202	27.648	1.00	70.67	PS16
ATOM	48073	CD2	HIS	P	13	129.033	78.181	27.829	1.00	70.67	PS16
ATOM	48074	ND1	HIS	P	13	127.256	76.908	27.837	1.00	70.67	PS16
ATOM	48075	CE1	HIS	P	13	128.292	76.137	28.123	1.00	70.67	PS16
ATOM	48076	NE2	HIS	P	13	129.382	76.885	28.125	1.00	70.67	PS16
ATOM	48077	C	HIS	P	13	124.920	80.208	25.909	1.00	72.75	PS16
ATOM	48078	O	HIS	P	13	124.206	80.626	26.815	1.00	72.75	PS16
ATOM	48079	N	ASN	P	14	124.936	80.739	24.687	1.00	48.93	PS16
ATOM	48080	CA	ASN	P	14	124.088	81.875	24.323	1.00	48.93	PS16
ATOM	48081	CB	ASN	P	14	124.943	83.118	24.074	1.00	71.63	PS16
ATOM	48082	CG	ASN	P	14	124.108	84.359	23.838	1.00	71.63	PS16
ATOM	48083	OD1	ASN	P	14	123.268	84.704	24.660	1.00	71.63	PS16
ATOM	48084	ND2	ASN	P	14	124.338	85.039	22.714	1.00	71.63	PS16
ATOM	48085	C	ASN	P	14	123.282	81.544	23.067	1.00	48.93	PS16
ATOM	48086	O	ASN	P	14	123.397	82.205	22.044	1.00	48.93	PS16
ATOM	48087	N	PRO	P	15	122.439	80.515	23.144	1.00	50.66	PS16
ATOM	48088	CD	PRO	P	15	122.197	79.741	24.370	1.00	40.30	PS16
ATOM	48089	CA	PRO	P	15	121.583	80.032	22.058	1.00	50.66	PS16
ATOM	48090	CB	PRO	P	15	121.057	78.726	22.616	1.00	40.30	PS16
ATOM	48091	CG	PRO	P	15	120.889	79.083	24.060	1.00	40.30	PS16
ATOM	48092	C	PRO	P	15	120.440	80.946	21.664	1.00	50.66	PS16
ATOM	48093	O	PRO	P	15	119.704	81.411	22.523	1.00	50.66	PS16
ATOM	48094	N	HIS	P	16	120.287	81.174	20.362	1.00	39.87	PS16
ATOM	48095	CA	HIS	P	16	119.211	82.002	19.803	1.00	39.87	PS16
ATOM	48096	CB	HIS	P	16	119.707	83.408	19.463	1.00	55.24	PS16
ATOM	48097	CG	HIS	P	16	119.838	84.300	20.654	1.00	55.24	PS16
ATOM	48098	CD2	HIS	P	16	119.160	85.417	21.009	1.00	55.24	PS16
ATOM	48099	ND1	HIS	P	16	120.734	84.054	21.673	1.00	55.24	PS16
ATOM	48100	CE1	HIS	P	16	120.602	84.981	22.606	1.00	55.24	PS16
ATOM	48101	NE2	HIS	P	16	119.653	85.819	22.228	1.00	55.24	PS16
ATOM	48102	C	HIS	P	16	118.757	81.315	18.534	1.00	39.87	PS16



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ATOM	48103	O	HIS	P	16	119.550	81.132	17.614	1.00	39.87	PS16
ATOM	48104	N	TYR	P	17	117.486	80.939	18.470	1.00	29.70	PS16
ATOM	48105	CA	TYR	P	17	116.986	80.224	17.300	1.00	29.70	PS16
ATOM	48106	CB	TYR	P	17	116.079	79.064	17.737	1.00	64.54	PS16
ATOM	48107	CG	TYR	P	17	116.749	78.100	18.675	1.00	64.54	PS16
ATOM	48108	CD1	TYR	P	17	117.026	78.461	19.988	1.00	64.54	PS16
ATOM	48109	CE1	TYR	P	17	117.716	77.604	20.847	1.00	64.54	PS16
ATOM	48110	CD2	TYR	P	17	117.168	76.850	18.234	1.00	64.54	PS16
ATOM	48111	CE2	TYR	P	17	117.858	75.978	19.085	1.00	64.54	PS16
ATOM	48112	CZ	TYR	P	17	118.130	76.365	20.394	1.00	64.54	PS16
ATOM	48113	OH	TYR	P	17	118.815	75.518	21.246	1.00	64.54	PS16
ATOM	48114	C	TYR	P	17	116.227	81.093	16.330	1.00	29.70	PS16
ATOM	48115	O	TYR	P	17	115.737	82.162	16.699	1.00	29.70	PS16
ATOM	48116	N	ARG	P	18	116.144	80.614	15.089	1.00	36.21	PS16
ATOM	48117	CA	ARG	P	18	115.399	81.285	14.034	1.00	36.21	PS16
ATOM	48118	CB	ARG	P	18	116.292	81.654	12.850	1.00	51.05	PS16
ATOM	48119	CG	ARG	P	18	117.153	82.865	13.102	1.00	51.05	PS16
ATOM	48120	CD	ARG	P	18	117.729	83.441	11.823	1.00	51.05	PS16
ATOM	48121	NE	ARG	P	18	118.747	84.447	12.113	1.00	51.05	PS16
ATOM	48122	CZ	ARG	P	18	119.591	84.937	11.210	1.00	51.05	PS16
ATOM	48123	NH1	ARG	P	18	119.544	84.521	9.949	1.00	51.05	PS16
ATOM	48124	NH2	ARG	P	18	120.502	85.831	11.566	1.00	51.05	PS16
ATOM	48125	C	ARG	P	18	114.307	80.353	13.545	1.00	36.21	PS16
ATOM	48126	O	ARG	P	18	114.590	79.381	12.857	1.00	36.21	PS16
ATOM	48127	N	ILE	P	19	113.064	80.629	13.924	1.00	37.68	PS16
ATOM	48128	CA	ILE	P	19	111.942	79.813	13.478	1.00	37.68	PS16
ATOM	48129	CB	ILE	P	19	110.621	80.337	14.042	1.00	31.39	PS16
ATOM	48130	CG2	ILE	P	19	109.450	79.603	13.378	1.00	31.39	PS16
ATOM	48131	CG1	ILE	P	19	110.648	80.209	15.575	1.00	31.39	PS16
ATOM	48132	CD1	ILE	P	19	109.437	80.767	16.272	1.00	31.39	PS16
ATOM	48133	C	ILE	P	19	111.979	79.958	11.969	1.00	37.68	PS16
ATOM	48134	O	ILE	P	19	111.888	81.068	11.438	1.00	37.68	PS16
ATOM	48135	N	VAL	P	20	112.081	78.828	11.284	1.00	42.80	PS16
ATOM	48136	CA	VAL	P	20	112.260	78.857	9.854	1.00	42.80	PS16
ATOM	48137	CB	VAL	P	20	113.761	78.814	9.599	1.00	29.58	PS16
ATOM	48138	CG1	VAL	P	20	114.103	77.659	8.719	1.00	29.58	PS16
ATOM	48139	CG2	VAL	P	20	114.226	80.116	9.025	1.00	29.58	PS16
ATOM	48140	C	VAL	P	20	111.614	77.763	9.017	1.00	42.80	PS16
ATOM	48141	O	VAL	P	20	111.541	76.607	9.439	1.00	42.80	PS16
ATOM	48142	N	VAL	P	21	111.165	78.133	7.819	1.00	41.54	PS16
ATOM	48143	CA	VAL	P	21	110.606	77.161	6.883	1.00	41.54	PS16
ATOM	48144	CB	VAL	P	21	109.710	77.805	5.831	1.00	31.54	PS16
ATOM	48145	CG1	VAL	P	21	109.183	76.742	4.878	1.00	31.54	PS16
ATOM	48146	CG2	VAL	P	21	108.575	78.521	6.503	1.00	31.54	PS16
ATOM	48147	C	VAL	P	21	111.858	76.687	6.177	1.00	41.54	PS16
ATOM	48148	O	VAL	P	21	112.756	77.490	5.953	1.00	41.54	PS16
ATOM	48149	N	THR	P	22	111.932	75.404	5.834	1.00	36.94	PS16
ATOM	48150	CA	THR	P	22	113.113	74.845	5.171	1.00	36.94	PS16
ATOM	48151	CB	THR	P	22	114.327	74.788	6.136	1.00	28.53	PS16
ATOM	48152	OG1	THR	P	22	115.464	74.276	5.444	1.00	28.53	PS16
ATOM	48153	CG2	THR	P	22	114.047	73.882	7.307	1.00	28.53	PS16
ATOM	48154	C	THR	P	22	112.801	73.434	4.712	1.00	36.94	PS16
ATOM	48155	O	THR	P	22	111.939	72.781	5.293	1.00	36.94	PS16
ATOM	48156	N	ASP	P	23	113.460	72.952	3.664	1.00	36.27	PS16
ATOM	48157	CA	ASP	P	23	113.170	71.585	3.266	1.00	36.27	PS16
ATOM	48158	CB	ASP	P	23	113.883	71.191	1.983	1.00	44.12	PS16
ATOM	48159	CG	ASP	P	23	113.687	69.716	1.649	1.00	44.12	PS16
ATOM	48160	OD1	ASP	P	23	114.464	68.881	2.159	1.00	44.12	PS16
ATOM	48161	OD2	ASP	P	23	112.745	69.379	0.896	1.00	44.12	PS16
ATOM	48162	C	ASP	P	23	113.675	70.743	4.430	1.00	36.27	PS16
ATOM	48163	O	ASP	P	23	114.565	71.177	5.166	1.00	36.27	PS16
ATOM	48164	N	ALA	P	24	113.115	69.551	4.613	1.00	59.07	PS16
ATOM	48165	CA	ALA	P	24	113.511	68.709	5.731	1.00	59.07	PS16
ATOM	48166	CB	ALA	P	24	112.430	67.678	6.004	1.00	121.94	PS16
ATOM	48167	C	ALA	P	24	114.853	68.016	5.566	1.00	59.07	PS16
ATOM	48168	O	ALA	P	24	115.109	67.020	6.217	1.00	59.07	PS16
ATOM	48169	N	ARG	P	25	115.737	68.522	4.727	1.00	41.67	PS16
ATOM	48170	CA	ARG	P	25	117.003	67.828	4.589	1.00	41.67	PS16
ATOM	48171	CB	ARG	P	25	117.040	67.090	3.247	1.00	45.98	PS16
ATOM	48172	CG	ARG	P	25	115.824	66.218	3.025	1.00	45.98	PS16
ATOM	48173	CD	ARG	P	25	115.701	65.706	1.594	1.00	45.98	PS16
ATOM	48174	NE	ARG	P	25	115.126	66.696	0.685	1.00	45.98	PS16
ATOM	48175	CZ	ARG	P	25	114.563	66.401	-0.486	1.00	45.98	PS16
ATOM	48176	NH1	ARG	P	25	114.492	65.133	-0.896	1.00	45.98	PS16
ATOM	48177	NH2	ARG	P	25	114.076	67.372	-1.253	1.00	45.98	PS16
ATOM	48178	C	ARG	P	25	118.242	68.706	4.742	1.00	41.67	PS16
ATOM	48179	O	ARG	P	25	119.361	68.200	4.649	1.00	41.67	PS16



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ATOM	48180	N	ARG	P	26	118.084	70.006	4.971	1.00	44.16	PS16
ATOM	48181	CA	ARG	P	26	119.282	70.823	5.122	1.00	44.16	PS16
ATOM	48182	CB	ARG	P	26	118.998	72.285	4.799	1.00	57.14	PS16
ATOM	48183	CG	ARG	P	26	118.938	72.546	3.320	1.00	57.14	PS16
ATOM	48184	CD	ARG	P	26	119.205	73.998	2.960	1.00	57.14	PS16
ATOM	48185	NE	ARG	P	26	118.826	74.227	1.570	1.00	57.14	PS16
ATOM	48186	CZ	ARG	P	26	119.450	73.671	0.537	1.00	57.14	PS16
ATOM	48187	NH1	ARG	P	26	120.487	72.874	0.759	1.00	57.14	PS16
ATOM	48188	NH2	ARG	P	26	119.020	73.876	-0.708	1.00	57.14	PS16
ATOM	48189	C	ARG	P	26	119.871	70.741	6.515	1.00	44.16	PS16
ATOM	48190	O	ARG	P	26	119.210	70.281	7.442	1.00	44.16	PS16
ATOM	48191	N	LYS	P	27	121.127	71.155	6.659	1.00	36.57	PS16
ATOM	48192	CA	LYS	P	27	121.748	71.179	7.981	1.00	36.57	PS16
ATOM	48193	CB	LYS	P	27	123.101	71.884	7.921	1.00	59.25	PS16
ATOM	48194	CG	LYS	P	27	123.901	71.538	6.692	1.00	59.25	PS16
ATOM	48195	CD	LYS	P	27	125.231	72.258	6.673	1.00	59.25	PS16
ATOM	48196	CE	LYS	P	27	125.982	71.889	5.410	1.00	59.25	PS16
ATOM	48197	NZ	LYS	P	27	125.100	72.057	4.212	1.00	59.25	PS16
ATOM	48198	C	LYS	P	27	120.780	72.029	8.815	1.00	36.57	PS16
ATOM	48199	O	LYS	P	27	120.046	72.860	8.270	1.00	36.57	PS16
ATOM	48200	N	ARG	P	28	120.757	71.859	10.127	1.00	75.75	PS16
ATOM	48201	CA	ARG	P	28	119.808	72.664	10.864	1.00	75.75	PS16
ATOM	48202	CB	ARG	P	28	119.711	72.216	12.313	1.00	32.22	PS16
ATOM	48203	CG	ARG	P	28	120.873	72.553	13.167	1.00	32.22	PS16
ATOM	48204	CD	ARG	P	28	120.423	72.431	14.605	1.00	32.22	PS16
ATOM	48205	NE	ARG	P	28	121.546	72.228	15.514	1.00	32.22	PS16
ATOM	48206	CZ	ARG	P	28	122.585	73.051	15.614	1.00	32.22	PS16
ATOM	48207	NH1	ARG	P	28	122.636	74.142	14.852	1.00	32.22	PS16
ATOM	48208	NH2	ARG	P	28	123.567	72.787	16.473	1.00	32.22	PS16
ATOM	48209	C	ARG	P	28	120.186	74.126	10.789	1.00	75.75	PS16
ATOM	48210	O	ARG	P	28	119.382	74.998	11.132	1.00	75.75	PS16
ATOM	48211	N	ASP	P	29	121.405	74.397	10.326	1.00	39.25	PS16
ATOM	48212	CA	ASP	P	29	121.864	75.777	10.208	1.00	39.25	PS16
ATOM	48213	CB	ASP	P	29	123.130	75.986	11.035	1.00	66.56	PS16
ATOM	48214	CG	ASP	P	29	122.888	75.804	12.517	1.00	66.56	PS16
ATOM	48215	OD1	ASP	P	29	123.758	76.216	13.320	1.00	66.56	PS16
ATOM	48216	OD2	ASP	P	29	121.826	75.247	12.876	1.00	66.56	PS16
ATOM	48217	C	ASP	P	29	122.117	76.208	8.767	1.00	39.25	PS16
ATOM	48218	O	ASP	P	29	122.680	77.280	8.517	1.00	39.25	PS16
ATOM	48219	N	GLY	P	30	121.686	75.373	7.826	1.00	48.19	PS16
ATOM	48220	CA	GLY	P	30	121.879	75.667	6.417	1.00	48.19	PS16
ATOM	48221	C	GLY	P	30	120.831	76.606	5.866	1.00	48.19	PS16
ATOM	48222	O	GLY	P	30	120.034	77.170	6.629	1.00	48.19	PS16
ATOM	48223	N	LYS	P	31	120.821	76.752	4.540	1.00	50.58	PS16
ATOM	48224	CA	LYS	P	31	119.892	77.652	3.853	1.00	50.58	PS16
ATOM	48225	CB	LYS	P	31	120.204	77.701	2.356	1.00	52.90	PS16
ATOM	48226	CG	LYS	P	31	119.157	78.475	1.554	1.00	52.90	PS16
ATOM	48227	CD	LYS	P	31	119.580	78.732	0.117	1.00	52.90	PS16
ATOM	48228	CE	LYS	P	31	119.640	77.443	-0.679	1.00	52.90	PS16
ATOM	48229	NZ	LYS	P	31	120.228	77.651	-2.038	1.00	52.90	PS16
ATOM	48230	C	LYS	P	31	118.409	77.349	4.017	1.00	50.58	PS16
ATOM	48231	O	LYS	P	31	117.938	76.292	3.611	1.00	50.58	PS16
ATOM	48232	N	TYR	P	32	117.660	78.283	4.591	1.00	27.89	PS16
ATOM	48233	CA	TYR	P	32	116.237	78.057	4.735	1.00	27.89	PS16
ATOM	48234	CB	TYR	P	32	115.768	78.451	6.127	1.00	42.25	PS16
ATOM	48235	CG	TYR	P	32	116.303	79.755	6.623	1.00	42.25	PS16
ATOM	48236	CD1	TYR	P	32	117.332	79.795	7.553	1.00	42.25	PS16
ATOM	48237	CE1	TYR	P	32	117.807	81.010	8.057	1.00	42.25	PS16
ATOM	48238	CD2	TYR	P	32	115.756	80.953	6.196	1.00	42.25	PS16
ATOM	48239	CE2	TYR	P	32	116.220	82.176	6.688	1.00	42.25	PS16
ATOM	48240	CZ	TYR	P	32	117.245	82.201	7.618	1.00	42.25	PS16
ATOM	48241	OH	TYR	P	32	117.702	83.416	8.094	1.00	42.25	PS16
ATOM	48242	C	TYR	P	32	115.419	78.798	3.684	1.00	27.89	PS16
ATOM	48243	O	TYR	P	32	115.871	79.780	3.109	1.00	27.89	PS16
ATOM	48244	N	ILE	P	33	114.210	78.307	3.439	1.00	34.99	PS16
ATOM	48245	CA	ILE	P	33	113.283	78.884	2.472	1.00	34.99	PS16
ATOM	48246	CB	ILE	P	33	112.066	78.003	2.309	1.00	39.40	PS16
ATOM	48247	CG2	ILE	P	33	111.109	78.618	1.306	1.00	39.40	PS16
ATOM	48248	CG1	ILE	P	33	112.505	76.611	1.889	1.00	39.40	PS16
ATOM	48249	CD1	ILE	P	33	111.644	75.525	2.490	1.00	39.40	PS16
ATOM	48250	C	ILE	P	33	112.755	80.244	2.886	1.00	34.99	PS16
ATOM	48251	O	ILE	P	33	112.357	81.035	2.040	1.00	34.99	PS16
ATOM	48252	N	GLU	P	34	112.722	80.506	4.185	1.00	49.47	PS16
ATOM	48253	CA	GLU	P	34	112.215	81.777	4.671	1.00	49.47	PS16
ATOM	48254	CB	GLU	P	34	110.773	81.984	4.214	1.00	59.31	PS16
ATOM	48255	CG	GLU	P	34	110.145	83.279	4.696	1.00	59.31	PS16
ATOM	48256	CD	GLU	P	34	108.647	83.362	4.392	1.00	59.31	PS16



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ATOM	48257	OE1	GLU	P	34	108.220	82.951	3.284	1.00	59.31	PS16
ATOM	48258	OE2	GLU	P	34	107.893	83.855	5.262	1.00	59.31	PS16
ATOM	48259	C	GLU	P	34	112.242	81.776	6.176	1.00	49.47	PS16
ATOM	48260	O	GLU	P	34	112.098	80.727	6.799	1.00	49.47	PS16
ATOM	48261	N	LYS	P	35	112.427	82.952	6.755	1.00	53.63	PS16
ATOM	48262	CA	LYS	P	35	112.440	83.101	8.198	1.00	53.63	PS16
ATOM	48263	CB	LYS	P	35	113.490	84.126	8.605	1.00	43.85	PS16
ATOM	48264	CG	LYS	P	35	113.499	84.485	10.082	1.00	43.85	PS16
ATOM	48265	CD	LYS	P	35	114.653	85.452	10.392	1.00	43.85	PS16
ATOM	48266	CE	LYS	P	35	114.925	85.615	11.900	1.00	43.85	PS16
ATOM	48267	NZ	LYS	P	35	116.098	86.518	12.211	1.00	43.85	PS16
ATOM	48268	C	LYS	P	35	111.059	83.617	8.554	1.00	53.63	PS16
ATOM	48269	O	LYS	P	35	110.521	84.462	7.842	1.00	53.63	PS16
ATOM	48270	N	ILE	P	36	110.460	83.105	9.622	1.00	52.76	PS16
ATOM	48271	CA	ILE	P	36	109.145	83.599	10.006	1.00	52.76	PS16
ATOM	48272	CB	ILE	P	36	108.023	82.610	9.680	1.00	27.11	PS16
ATOM	48273	CG2	ILE	P	36	107.944	82.372	8.179	1.00	27.11	PS16
ATOM	48274	CG1	ILE	P	36	108.248	81.310	10.440	1.00	27.11	PS16
ATOM	48275	CD1	ILE	P	36	107.140	80.283	10.185	1.00	27.11	PS16
ATOM	48276	C	ILE	P	36	109.115	83.888	11.487	1.00	52.76	PS16
ATOM	48277	O	ILE	P	36	108.110	84.343	12.016	1.00	52.76	PS16
ATOM	48278	N	GLY	P	37	110.220	83.632	12.169	1.00	44.93	PS16
ATOM	48279	CA	GLY	P	37	110.231	83.927	13.586	1.00	44.93	PS16
ATOM	48280	C	GLY	P	37	111.570	83.714	14.246	1.00	44.93	PS16
ATOM	48281	O	GLY	P	37	112.502	83.203	13.627	1.00	44.93	PS16
ATOM	48282	N	TYR	P	38	111.669	84.129	15.502	1.00	47.83	PS16
ATOM	48283	CA	TYR	P	38	112.890	83.943	16.257	1.00	47.83	PS16
ATOM	48284	CB	TYR	P	38	113.781	85.186	16.167	1.00	65.13	PS16
ATOM	48285	CG	TYR	P	38	113.220	86.461	16.750	1.00	65.13	PS16
ATOM	48286	CD1	TYR	P	38	113.465	86.812	18.083	1.00	65.13	PS16
ATOM	48287	CE1	TYR	P	38	113.001	88.022	18.607	1.00	65.13	PS16
ATOM	48288	CD2	TYR	P	38	112.491	87.348	15.956	1.00	65.13	PS16
ATOM	48289	CE2	TYR	P	38	112.023	88.560	16.465	1.00	65.13	PS16
ATOM	48290	CZ	TYR	P	38	112.280	88.890	17.789	1.00	65.13	PS16
ATOM	48291	OH	TYR	P	38	111.813	90.084	18.292	1.00	65.13	PS16
ATOM	48292	C	TYR	P	38	112.505	83.618	17.692	1.00	47.83	PS16
ATOM	48293	O	TYR	P	38	111.413	83.978	18.145	1.00	47.83	PS16
ATOM	48294	N	TYR	P	39	113.388	82.928	18.406	1.00	52.65	PS16
ATOM	48295	CA	TYR	P	39	113.092	82.522	19.777	1.00	52.65	PS16
ATOM	48296	CB	TYR	P	39	112.428	81.137	19.747	1.00	60.42	PS16
ATOM	48297	CG	TYR	P	39	112.433	80.387	21.055	1.00	60.42	PS16
ATOM	48298	CD1	TYR	P	39	111.977	80.986	22.225	1.00	60.42	PS16
ATOM	48299	CE1	TYR	P	39	111.954	80.293	23.433	1.00	60.42	PS16
ATOM	48300	CD2	TYR	P	39	112.869	79.067	21.119	1.00	60.42	PS16
ATOM	48301	CE2	TYR	P	39	112.849	78.364	22.316	1.00	60.42	PS16
ATOM	48302	CZ	TYR	P	39	112.389	78.984	23.473	1.00	60.42	PS16
ATOM	48303	OH	TYR	P	39	112.357	78.303	24.672	1.00	60.42	PS16
ATOM	48304	C	TYR	P	39	114.341	82.489	20.642	1.00	52.65	PS16
ATOM	48305	O	TYR	P	39	115.336	81.856	20.279	1.00	52.65	PS16
ATOM	48306	N	ASP	P	40	114.281	83.178	21.780	1.00	46.63	PS16
ATOM	48307	CA	ASP	P	40	115.397	83.236	22.725	1.00	46.63	PS16
ATOM	48308	CB	ASP	P	40	115.650	84.677	23.159	1.00	75.24	PS16
ATOM	48309	CG	ASP	P	40	116.645	84.778	24.302	1.00	75.24	PS16
ATOM	48310	OD1	ASP	P	40	116.877	85.916	24.771	1.00	75.24	PS16
ATOM	48311	OD2	ASP	P	40	117.191	83.733	24.731	1.00	75.24	PS16
ATOM	48312	C	ASP	P	40	115.041	82.395	23.943	1.00	46.63	PS16
ATOM	48313	O	ASP	P	40	114.422	82.887	24.885	1.00	46.63	PS16
ATOM	48314	N	PRO	P	41	115.448	81.114	23.939	1.00	56.59	PS16
ATOM	48315	CD	PRO	P	41	116.373	80.558	22.939	1.00	115.26	PS16
ATOM	48316	CA	PRO	P	41	115.209	80.134	24.998	1.00	56.59	PS16
ATOM	48317	CB	PRO	P	41	116.252	79.067	24.716	1.00	115.26	PS16
ATOM	48318	CG	PRO	P	41	116.321	79.085	23.252	1.00	115.26	PS16
ATOM	48319	C	PRO	P	41	115.341	80.684	26.399	1.00	56.59	PS16
ATOM	48320	O	PRO	P	41	114.657	80.224	27.307	1.00	56.59	PS16
ATOM	48321	N	ARG	P	42	116.211	81.666	26.592	1.00	43.15	PS16
ATOM	48322	CA	ARG	P	42	116.382	82.202	27.930	1.00	43.15	PS16
ATOM	48323	CB	ARG	P	42	117.863	82.314	28.257	1.00	66.34	PS16
ATOM	48324	CG	ARG	P	42	118.557	80.982	28.332	1.00	66.34	PS16
ATOM	48325	CD	ARG	P	42	120.026	81.205	28.469	1.00	66.34	PS16
ATOM	48326	NE	ARG	P	42	120.494	82.074	27.401	1.00	66.34	PS16
ATOM	48327	CZ	ARG	P	42	121.655	82.709	27.430	1.00	66.34	PS16
ATOM	48328	NH1	ARG	P	42	122.457	82.564	28.479	1.00	66.34	PS16
ATOM	48329	NH2	ARG	P	42	122.004	83.491	26.420	1.00	66.34	PS16
ATOM	48330	C	ARG	P	42	115.700	83.530	28.206	1.00	43.15	PS16
ATOM	48331	O	ARG	P	42	116.048	84.217	29.166	1.00	43.15	PS16
ATOM	48332	N	LYS	P	43	114.722	83.881	27.382	1.00	77.52	PS16
ATOM	48333	CA	LYS	P	43	113.999	85.133	27.552	1.00	77.52	PS16



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ATOM	48334	CB	LYS	P	43	112.738	84.927	28.398	1.00	59.53	PS16
ATOM	48335	CG	LYS	P	43	112.025	83.594	28.240	1.00	59.53	PS16
ATOM	48336	CD	LYS	P	43	112.665	82.501	29.057	1.00	59.53	PS16
ATOM	48337	CE	LYS	P	43	111.816	81.241	29.038	1.00	59.53	PS16
ATOM	48338	NZ	LYS	P	43	112.462	80.185	29.882	1.00	59.53	PS16
ATOM	48339	C	LYS	P	43	114.885	86.166	28.252	1.00	77.52	PS16
ATOM	48340	O	LYS	P	43	114.529	86.665	29.318	1.00	77.52	PS16
ATOM	48341	N	THR	P	44	116.046	86.466	27.674	1.00	54.05	PS16
ATOM	48342	CA	THR	P	44	116.951	87.449	28.269	1.00	54.05	PS16
ATOM	48343	CB	THR	P	44	118.388	87.305	27.723	1.00	52.90	PS16
ATOM	48344	OG1	THR	P	44	118.356	87.232	26.291	1.00	52.90	PS16
ATOM	48345	CG2	THR	P	44	119.050	86.062	28.292	1.00	52.90	PS16
ATOM	48346	C	THR	P	44	116.469	88.871	28.000	1.00	54.05	PS16
ATOM	48347	O	THR	P	44	117.112	89.839	28.394	1.00	54.05	PS16
ATOM	48348	N	THR	P	45	115.336	88.982	27.319	1.00	51.62	PS16
ATOM	48349	CA	THR	P	45	114.755	90.274	26.989	1.00	51.62	PS16
ATOM	48350	CB	THR	P	45	115.252	90.781	25.637	1.00	53.06	PS16
ATOM	48351	OG1	THR	P	45	114.860	89.862	24.609	1.00	53.06	PS16
ATOM	48352	CG2	THR	P	45	116.756	90.917	25.655	1.00	53.06	PS16
ATOM	48353	C	THR	P	45	113.238	90.162	26.913	1.00	51.62	PS16
ATOM	48354	O	THR	P	45	112.695	89.110	26.552	1.00	51.62	PS16
ATOM	48355	N	PRO	P	46	112.535	91.258	27.226	1.00	63.87	PS16
ATOM	48356	CD	PRO	P	46	113.081	92.625	27.246	1.00	93.20	PS16
ATOM	48357	CA	PRO	P	46	111.072	91.294	27.200	1.00	63.87	PS16
ATOM	48358	CB	PRO	P	46	110.769	92.779	27.356	1.00	93.20	PS16
ATOM	48359	CG	PRO	P	46	111.940	93.421	26.672	1.00	93.20	PS16
ATOM	48360	C	PRO	P	46	110.507	90.715	25.907	1.00	63.87	PS16
ATOM	48361	O	PRO	P	46	109.501	90.010	25.920	1.00	63.87	PS16
ATOM	48362	N	ASP	P	47	111.156	91.016	24.791	1.00	70.57	PS16
ATOM	48363	CA	ASP	P	47	110.702	90.508	23.510	1.00	70.57	PS16
ATOM	48364	CB	ASP	P	47	110.886	91.579	22.442	1.00	122.07	PS16
ATOM	48365	CG	ASP	P	47	110.678	91.043	21.044	1.00	122.07	PS16
ATOM	48366	OD1	ASP	P	47	110.901	91.807	20.085	1.00	122.07	PS16
ATOM	48367	OD2	ASP	P	47	110.293	89.862	20.899	1.00	122.07	PS16
ATOM	48368	C	ASP	P	47	111.486	89.253	23.123	1.00	70.57	PS16
ATOM	48369	O	ASP	P	47	112.505	89.347	22.434	1.00	70.57	PS16
ATOM	48370	N	TRP	P	48	111.011	88.082	23.554	1.00	53.26	PS16
ATOM	48371	CA	TRP	P	48	111.691	86.822	23.241	1.00	53.26	PS16
ATOM	48372	CB	TRP	P	48	112.217	86.144	24.510	1.00	80.66	PS16
ATOM	48373	CG	TRP	P	48	111.166	85.913	25.528	1.00	80.66	PS16
ATOM	48374	CD2	TRP	P	48	110.527	84.672	25.844	1.00	80.66	PS16
ATOM	48375	CE2	TRP	P	48	109.589	84.933	26.857	1.00	80.66	PS16
ATOM	48376	CE3	TRP	P	48	110.658	83.362	25.371	1.00	80.66	PS16
ATOM	48377	CD1	TRP	P	48	110.605	86.846	26.336	1.00	80.66	PS16
ATOM	48378	NE1	TRP	P	48	109.657	86.270	27.140	1.00	80.66	PS16
ATOM	48379	CZ2	TRP	P	48	108.785	83.934	27.410	1.00	80.66	PS16
ATOM	48380	CZ3	TRP	P	48	109.855	82.366	25.925	1.00	80.66	PS16
ATOM	48381	CH2	TRP	P	48	108.934	82.661	26.933	1.00	80.66	PS16
ATOM	48382	C	TRP	P	48	110.846	85.820	22.480	1.00	53.26	PS16
ATOM	48383	O	TRP	P	48	110.707	84.689	22.907	1.00	53.26	PS16
ATOM	48384	N	LEU	P	49	110.279	86.247	21.360	1.00	46.38	PS16
ATOM	48385	CA	LEU	P	49	109.478	85.378	20.496	1.00	46.38	PS16
ATOM	48386	CB	LEU	P	49	108.663	84.358	21.291	1.00	40.64	PS16
ATOM	48387	CG	LEU	P	49	107.876	83.450	20.338	1.00	40.64	PS16
ATOM	48388	CD1	LEU	P	49	108.847	82.572	19.587	1.00	40.64	PS16
ATOM	48389	CD2	LEU	P	49	106.896	82.596	21.101	1.00	40.64	PS16
ATOM	48390	C	LEU	P	49	108.514	86.109	19.594	1.00	46.38	PS16
ATOM	48391	O	LEU	P	49	107.426	86.468	20.013	1.00	46.38	PS16
ATOM	48392	N	LYS	P	50	108.917	86.341	18.358	1.00	47.30	PS16
ATOM	48393	CA	LYS	P	50	108.036	86.977	17.398	1.00	47.30	PS16
ATOM	48394	CB	LYS	P	50	108.790	88.007	16.555	1.00	125.07	PS16
ATOM	48395	CG	LYS	P	50	108.102	88.330	15.231	1.00	125.07	PS16
ATOM	48396	CD	LYS	P	50	109.019	89.092	14.286	1.00	125.07	PS16
ATOM	48397	CE	LYS	P	50	108.487	89.065	12.859	1.00	125.07	PS16
ATOM	48398	NZ	LYS	P	50	108.400	87.670	12.335	1.00	125.07	PS16
ATOM	48399	C	LYS	P	50	107.626	85.799	16.529	1.00	47.30	PS16
ATOM	48400	O	LYS	P	50	108.345	84.794	16.477	1.00	47.30	PS16
ATOM	48401	N	VAL	P	51	106.496	85.883	15.845	1.00	55.72	PS16
ATOM	48402	CA	VAL	P	51	106.144	84.747	15.032	1.00	55.72	PS16
ATOM	48403	CB	VAL	P	51	105.240	83.783	15.808	1.00	62.33	PS16
ATOM	48404	CG1	VAL	P	51	104.642	82.742	14.881	1.00	62.33	PS16
ATOM	48405	CG2	VAL	P	51	106.060	83.083	16.874	1.00	62.33	PS16
ATOM	48406	C	VAL	P	51	105.529	85.044	13.697	1.00	55.72	PS16
ATOM	48407	O	VAL	P	51	105.540	84.184	12.829	1.00	55.72	PS16
ATOM	48408	N	ASP	P	52	105.006	86.241	13.490	1.00	58.64	PS16
ATOM	48409	CA	ASP	P	52	104.403	86.522	12.187	1.00	58.64	PS16
ATOM	48410	CB	ASP	P	52	105.480	86.545	11.093	1.00	89.94	PS16



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ATOM	48411	CG	ASP	P	52	104.891	86.499	9.690	1.00	89.94	PS16
ATOM	48412	OD1	ASP	P	52	104.618	87.565	9.099	1.00	89.94	PS16
ATOM	48413	OD2	ASP	P	52	104.684	85.380	9.180	1.00	89.94	PS16
ATOM	48414	C	ASP	P	52	103.414	85.389	11.912	1.00	58.64	PS16
ATOM	48415	O	ASP	P	52	103.548	84.626	10.937	1.00	58.64	PS16
ATOM	48416	N	VAL	P	53	102.429	85.267	12.793	1.00	59.11	PS16
ATOM	48417	CA	VAL	P	53	101.439	84.215	12.650	1.00	59.11	PS16
ATOM	48418	CB	VAL	P	53	100.299	84.389	13.642	1.00	47.00	PS16
ATOM	48419	CG1	VAL	P	53	100.860	84.801	15.011	1.00	47.00	PS16
ATOM	48420	CG2	VAL	P	53	99.311	85.402	13.104	1.00	47.00	PS16
ATOM	48421	C	VAL	P	53	100.862	84.240	11.247	1.00	59.11	PS16
ATOM	48422	O	VAL	P	53	100.283	83.264	10.790	1.00	59.11	PS16
ATOM	48423	N	GLU	P	54	101.021	85.364	10.567	1.00	57.11	PS16
ATOM	48424	CA	GLU	P	54	100.509	85.485	9.215	1.00	57.11	PS16
ATOM	48425	CB	GLU	P	54	100.802	86.881	8.659	1.00	170.77	PS16
ATOM	48426	CG	GLU	P	54	100.538	87.006	7.168	1.00	170.77	PS16
ATOM	48427	CD	GLU	P	54	99.316	86.216	6.731	1.00	170.77	PS16
ATOM	48428	OE1	GLU	P	54	98.218	86.467	7.271	1.00	170.77	PS16
ATOM	48429	OE2	GLU	P	54	99.457	85.340	5.851	1.00	170.77	PS16
ATOM	48430	C	GLU	P	54	101.094	84.427	8.283	1.00	57.11	PS16
ATOM	48431	O	GLU	P	54	100.396	83.518	7.838	1.00	57.11	PS16
ATOM	48432	N	ARG	P	55	102.378	84.552	7.984	1.00	81.00	PS16
ATOM	48433	CA	ARG	P	55	103.020	83.611	7.087	1.00	81.00	PS16
ATOM	48434	CB	ARG	P	55	104.472	84.003	6.876	1.00	49.23	PS16
ATOM	48435	CG	ARG	P	55	104.656	85.357	6.252	1.00	49.23	PS16
ATOM	48436	CD	ARG	P	55	105.221	85.171	4.883	1.00	49.23	PS16
ATOM	48437	NE	ARG	P	55	104.229	84.706	3.923	1.00	49.23	PS16
ATOM	48438	CZ	ARG	P	55	104.548	84.062	2.806	1.00	49.23	PS16
ATOM	48439	NH1	ARG	P	55	105.825	83.805	2.543	1.00	49.23	PS16
ATOM	48440	NH2	ARG	P	55	103.609	83.712	1.930	1.00	49.23	PS16
ATOM	48441	C	ARG	P	55	102.950	82.198	7.629	1.00	81.00	PS16
ATOM	48442	O	ARG	P	55	102.715	81.250	6.873	1.00	81.00	PS16
ATOM	48443	N	ALA	P	56	103.166	82.054	8.933	1.00	54.83	PS16
ATOM	48444	CA	ALA	P	56	103.108	80.731	9.541	1.00	54.83	PS16
ATOM	48445	CB	ALA	P	56	102.963	80.845	11.046	1.00	43.10	PS16
ATOM	48446	C	ALA	P	56	101.907	80.005	8.949	1.00	54.83	PS16
ATOM	48447	O	ALA	P	56	102.047	78.944	8.340	1.00	54.83	PS16
ATOM	48448	N	ARG	P	57	100.730	80.600	9.116	1.00	48.61	PS16
ATOM	48449	CA	ARG	P	57	99.506	80.027	8.583	1.00	48.61	PS16
ATOM	48450	CB	ARG	P	57	98.337	80.982	8.795	1.00	74.87	PS16
ATOM	48451	CG	ARG	P	57	97.925	81.144	10.244	1.00	74.87	PS16
ATOM	48452	CD	ARG	P	57	97.011	82.351	10.406	1.00	74.87	PS16
ATOM	48453	NE	ARG	P	57	96.659	82.577	11.800	1.00	74.87	PS16
ATOM	48454	CZ	ARG	P	57	95.726	81.896	12.446	1.00	74.87	PS16
ATOM	48455	NH1	ARG	P	57	95.041	80.947	11.817	1.00	74.87	PS16
ATOM	48456	NH2	ARG	P	57	95.495	82.150	13.725	1.00	74.87	PS16
ATOM	48457	C	ARG	P	57	99.639	79.712	7.098	1.00	48.61	PS16
ATOM	48458	O	ARG	P	57	99.111	78.703	6.627	1.00	48.61	PS16
ATOM	48459	N	TYR	P	58	100.339	80.561	6.352	1.00	45.53	PS16
ATOM	48460	CA	TYR	P	58	100.500	80.290	4.933	1.00	45.53	PS16
ATOM	48461	CB	TYR	P	58	101.243	81.389	4.198	1.00	48.27	PS16
ATOM	48462	CG	TYR	P	58	101.758	80.874	2.866	1.00	48.27	PS16
ATOM	48463	CD1	TYR	P	58	103.129	80.713	2.631	1.00	48.27	PS16
ATOM	48464	CE1	TYR	P	58	103.605	80.185	1.413	1.00	48.27	PS16
ATOM	48465	CD2	TYR	P	58	100.872	80.495	1.859	1.00	48.27	PS16
ATOM	48466	CE2	TYR	P	58	101.332	79.967	0.641	1.00	48.27	PS16
ATOM	48467	CZ	TYR	P	58	102.694	79.818	0.421	1.00	48.27	PS16
ATOM	48468	OH	TYR	P	58	103.139	79.335	-0.797	1.00	48.27	PS16
ATOM	48469	C	TYR	P	58	101.274	79.022	4.665	1.00	45.53	PS16
ATOM	48470	O	TYR	P	58	100.872	78.220	3.829	1.00	45.53	PS16
ATOM	48471	N	TRP	P	59	102.413	78.862	5.331	1.00	74.98	PS16
ATOM	48472	CA	TRP	P	59	103.224	77.676	5.100	1.00	74.98	PS16
ATOM	48473	CB	TRP	P	59	104.559	77.776	5.838	1.00	51.89	PS16
ATOM	48474	CG	TRP	P	59	105.538	78.621	5.061	1.00	51.89	PS16
ATOM	48475	CD2	TRP	P	59	106.032	78.347	3.751	1.00	51.89	PS16
ATOM	48476	CE2	TRP	P	59	106.816	79.443	3.362	1.00	51.89	PS16
ATOM	48477	CE3	TRP	P	59	105.875	77.282	2.865	1.00	51.89	PS16
ATOM	48478	CD1	TRP	P	59	106.040	79.844	5.412	1.00	51.89	PS16
ATOM	48479	NE1	TRP	P	59	106.808	80.343	4.393	1.00	51.89	PS16
ATOM	48480	CZ2	TRP	P	59	107.445	79.504	2.129	1.00	51.89	PS16
ATOM	48481	CZ3	TRP	P	59	106.498	77.340	1.638	1.00	51.89	PS16
ATOM	48482	CH2	TRP	P	59	107.273	78.443	1.279	1.00	51.89	PS16
ATOM	48483	C	TRP	P	59	102.479	76.419	5.473	1.00	74.98	PS16
ATOM	48484	O	TRP	P	59	102.515	75.429	4.736	1.00	74.98	PS16
ATOM	48485	N	LEU	P	60	101.794	76.453	6.609	1.00	40.28	PS16
ATOM	48486	CA	LEU	P	60	101.002	75.305	7.011	1.00	40.28	PS16
ATOM	48487	CB	LEU	P	60	100.371	75.578	8.373	1.00	28.12	PS16



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ATOM	48488	CG	LEU	P	60	101.382	75.781	9.501	1.00	28.12	PS16
ATOM	48489	CD1	LEU	P	60	100.667	76.243	10.764	1.00	28.12	PS16
ATOM	48490	CD2	LEU	P	60	102.130	74.473	9.752	1.00	28.12	PS16
ATOM	48491	C	LEU	P	60	99.931	75.137	5.909	1.00	40.28	PS16
ATOM	48492	O	LEU	P	60	99.509	74.028	5.561	1.00	40.28	PS16
ATOM	48493	N	SER	P	61	99.507	76.259	5.345	1.00	42.94	PS16
ATOM	48494	CA	SER	P	61	98.535	76.229	4.270	1.00	42.94	PS16
ATOM	48495	CB	SER	P	61	98.272	77.665	3.775	1.00	82.46	PS16
ATOM	48496	OG	SER	P	61	97.725	77.710	2.464	1.00	82.46	PS16
ATOM	48497	C	SER	P	61	99.082	75.360	3.130	1.00	42.94	PS16
ATOM	48498	O	SER	P	61	98.375	75.070	2.159	1.00	42.94	PS16
ATOM	48499	N	VAL	P	62	100.332	74.925	3.240	1.00	65.45	PS16
ATOM	48500	CA	VAL	P	62	100.887	74.126	2.163	1.00	65.45	PS16
ATOM	48501	CB	VAL	P	62	101.610	75.002	1.153	1.00	41.14	PS16
ATOM	48502	CG1	VAL	P	62	100.709	75.214	-0.040	1.00	41.14	PS16
ATOM	48503	CG2	VAL	P	62	101.997	76.326	1.786	1.00	41.14	PS16
ATOM	48504	C	VAL	P	62	101.791	72.955	2.460	1.00	65.45	PS16
ATOM	48505	O	VAL	P	62	102.614	72.589	1.619	1.00	65.45	PS16
ATOM	48506	N	GLY	P	63	101.654	72.355	3.635	1.00	52.18	PS16
ATOM	48507	CA	GLY	P	63	102.475	71.196	3.929	1.00	52.18	PS16
ATOM	48508	C	GLY	P	63	103.618	71.411	4.886	1.00	52.18	PS16
ATOM	48509	O	GLY	P	63	104.334	70.464	5.209	1.00	52.18	PS16
ATOM	48510	N	ALA	P	64	103.816	72.647	5.322	1.00	56.77	PS16
ATOM	48511	CA	ALA	P	64	104.874	72.912	6.278	1.00	56.77	PS16
ATOM	48512	CB	ALA	P	64	104.839	74.367	6.726	1.00	96.01	PS16
ATOM	48513	C	ALA	P	64	104.535	71.984	7.440	1.00	56.77	PS16
ATOM	48514	O	ALA	P	64	103.392	71.941	7.908	1.00	56.77	PS16
ATOM	48515	N	GLN	P	65	105.511	71.217	7.891	1.00	51.54	PS16
ATOM	48516	CA	GLN	P	65	105.243	70.310	8.977	1.00	51.54	PS16
ATOM	48517	CB	GLN	P	65	105.489	68.885	8.530	1.00	51.44	PS16
ATOM	48518	CG	GLN	P	65	104.703	67.902	9.330	1.00	51.44	PS16
ATOM	48519	CD	GLN	P	65	103.240	67.943	8.983	1.00	51.44	PS16
ATOM	48520	OE1	GLN	P	65	102.854	67.630	7.854	1.00	51.44	PS16
ATOM	48521	NE2	GLN	P	65	102.408	68.331	9.951	1.00	51.44	PS16
ATOM	48522	C	GLN	P	65	106.154	70.665	10.130	1.00	51.54	PS16
ATOM	48523	O	GLN	P	65	107.300	70.237	10.196	1.00	51.54	PS16
ATOM	48524	N	PRO	P	66	105.652	71.464	11.059	1.00	44.90	PS16
ATOM	48525	CD	PRO	P	66	104.276	71.976	11.056	1.00	32.10	PS16
ATOM	48526	CA	PRO	P	66	106.382	71.922	12.245	1.00	44.90	PS16
ATOM	48527	CB	PRO	P	66	105.326	72.721	13.016	1.00	32.10	PS16
ATOM	48528	CG	PRO	P	66	104.023	72.131	12.521	1.00	32.10	PS16
ATOM	48529	C	PRO	P	66	107.046	70.888	13.145	1.00	44.90	PS16
ATOM	48530	O	PRO	P	66	106.510	69.804	13.371	1.00	44.90	PS16
ATOM	48531	N	THR	P	67	108.219	71.249	13.661	1.00	53.18	PS16
ATOM	48532	CA	THR	P	67	108.945	70.415	14.609	1.00	53.18	PS16
ATOM	48533	CB	THR	P	67	110.236	71.081	15.102	1.00	70.69	PS16
ATOM	48534	OG1	THR	P	67	111.101	71.342	13.998	1.00	70.69	PS16
ATOM	48535	CG2	THR	P	67	110.945	70.185	16.105	1.00	70.69	PS16
ATOM	48536	C	THR	P	67	108.018	70.445	15.803	1.00	53.18	PS16
ATOM	48537	O	THR	P	67	107.054	71.216	15.815	1.00	53.18	PS16
ATOM	48538	N	ASP	P	68	108.288	69.635	16.817	1.00	53.41	PS16
ATOM	48539	CA	ASP	P	68	107.420	69.706	17.967	1.00	53.41	PS16
ATOM	48540	CB	ASP	P	68	107.748	68.626	18.993	1.00	116.65	PS16
ATOM	48541	CG	ASP	P	68	106.990	67.333	18.724	1.00	116.65	PS16
ATOM	48542	OD1	ASP	P	68	105.766	67.412	18.476	1.00	116.65	PS16
ATOM	48543	OD2	ASP	P	68	107.604	66.245	18.764	1.00	116.65	PS16
ATOM	48544	C	ASP	P	68	107.616	71.096	18.538	1.00	53.41	PS16
ATOM	48545	O	ASP	P	68	106.692	71.908	18.505	1.00	53.41	PS16
ATOM	48546	N	THR	P	69	108.823	71.402	19.003	1.00	52.01	PS16
ATOM	48547	CA	THR	P	69	109.065	72.726	19.572	1.00	52.01	PS16
ATOM	48548	CB	THR	P	69	110.559	72.994	19.823	1.00	61.38	PS16
ATOM	48549	OG1	THR	P	69	111.118	71.923	20.592	1.00	61.38	PS16
ATOM	48550	CG2	THR	P	69	110.737	74.300	20.590	1.00	61.38	PS16
ATOM	48551	C	THR	P	69	108.539	73.845	18.677	1.00	52.01	PS16
ATOM	48552	O	THR	P	69	107.846	74.749	19.146	1.00	52.01	PS16
ATOM	48553	N	ALA	P	70	108.869	73.793	17.392	1.00	54.30	PS16
ATOM	48554	CA	ALA	P	70	108.407	74.833	16.488	1.00	54.30	PS16
ATOM	48555	CB	ALA	P	70	108.626	74.421	15.051	1.00	85.11	PS16
ATOM	48556	C	ALA	P	70	106.929	75.062	16.749	1.00	54.30	PS16
ATOM	48557	O	ALA	P	70	106.504	76.189	16.997	1.00	54.30	PS16
ATOM	48558	N	ARG	P	71	106.153	73.982	16.714	1.00	45.44	PS16
ATOM	48559	CA	ARG	P	71	104.717	74.066	16.952	1.00	45.44	PS16
ATOM	48560	CB	ARG	P	71	104.086	72.676	16.844	1.00	58.06	PS16
ATOM	48561	CG	ARG	P	71	102.638	72.654	17.262	1.00	58.06	PS16
ATOM	48562	CD	ARG	P	71	102.021	71.285	17.136	1.00	58.06	PS16
ATOM	48563	NE	ARG	P	71	101.447	71.060	15.816	1.00	58.06	PS16
ATOM	48564	CZ	ARG	P	71	101.924	70.177	14.943	1.00	58.06	PS16



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ATOM	48565	NH1	ARG	P	71	102.990	69.446	15.268	1.00	58.06	PS16
ATOM	48566	NH2	ARG	P	71	101.335	70.015	13.753	1.00	58.06	PS16
ATOM	48567	C	ARG	P	71	104.404	74.679	18.323	1.00	45.44	PS16
ATOM	48568	O	ARG	P	71	103.538	75.542	18.443	1.00	45.44	PS16
ATOM	48569	N	ARG	P	72	105.124	74.235	19.346	1.00	41.14	PS16
ATOM	48570	CA	ARG	P	72	104.943	74.724	20.716	1.00	41.14	PS16
ATOM	48571	CB	ARG	P	72	106.049	74.168	21.614	1.00	63.35	PS16
ATOM	48572	CG	ARG	P	72	105.787	74.302	23.094	1.00	63.35	PS16
ATOM	48573	CD	ARG	P	72	107.064	74.074	23.863	1.00	63.35	PS16
ATOM	48574	NE	ARG	P	72	107.675	75.339	24.246	1.00	63.35	PS16
ATOM	48575	CZ	ARG	P	72	108.974	75.505	24.469	1.00	63.35	PS16
ATOM	48576	NH1	ARG	P	72	109.806	74.479	24.338	1.00	63.35	PS16
ATOM	48577	NH2	ARG	P	72	109.438	76.696	24.832	1.00	63.35	PS16
ATOM	48578	C	ARG	P	72	104.973	76.251	20.798	1.00	41.14	PS16
ATOM	48579	O	ARG	P	72	104.178	76.858	21.516	1.00	41.14	PS16
ATOM	48580	N	LEU	P	73	105.914	76.860	20.078	1.00	48.97	PS16
ATOM	48581	CA	LEU	P	73	106.059	78.307	20.051	1.00	48.97	PS16
ATOM	48582	CB	LEU	P	73	107.416	78.702	19.484	1.00	53.82	PS16
ATOM	48583	CG	LEU	P	73	108.670	78.101	20.108	1.00	53.82	PS16
ATOM	48584	CD1	LEU	P	73	109.880	78.759	19.457	1.00	53.82	PS16
ATOM	48585	CD2	LEU	P	73	108.690	78.322	21.618	1.00	53.82	PS16
ATOM	48586	C	LEU	P	73	104.978	78.892	19.166	1.00	48.97	PS16
ATOM	48587	O	LEU	P	73	104.370	79.897	19.516	1.00	48.97	PS16
ATOM	48588	N	LEU	P	74	104.748	78.277	18.012	1.00	44.67	PS16
ATOM	48589	CA	LEU	P	74	103.719	78.777	17.122	1.00	44.67	PS16
ATOM	48590	CB	LEU	P	74	103.526	77.867	15.908	1.00	42.84	PS16
ATOM	48591	CG	LEU	P	74	104.672	77.602	14.941	1.00	42.84	PS16
ATOM	48592	CD1	LEU	P	74	104.119	77.477	13.521	1.00	42.84	PS16
ATOM	48593	CD2	LEU	P	74	105.656	78.733	15.013	1.00	42.84	PS16
ATOM	48594	C	LEU	P	74	102.409	78.831	17.898	1.00	44.67	PS16
ATOM	48595	O	LEU	P	74	101.631	79.793	17.781	1.00	44.67	PS16
ATOM	48596	N	ARG	P	75	102.157	77.789	18.687	1.00	61.31	PS16
ATOM	48597	CA	ARG	P	75	100.935	77.735	19.472	1.00	61.31	PS16
ATOM	48598	CB	ARG	P	75	100.874	76.438	20.283	1.00	79.72	PS16
ATOM	48599	CG	ARG	P	75	99.567	76.226	21.055	1.00	79.72	PS16
ATOM	48600	CD	ARG	P	75	99.541	74.869	21.769	1.00	79.72	PS16
ATOM	48601	NE	ARG	P	75	99.665	73.746	20.837	1.00	79.72	PS16
ATOM	48602	CZ	ARG	P	75	98.802	73.480	19.858	1.00	79.72	PS16
ATOM	48603	NH1	ARG	P	75	97.738	74.252	19.676	1.00	79.72	PS16
ATOM	48604	NH2	ARG	P	75	99.008	72.449	19.050	1.00	79.72	PS16
ATOM	48605	C	ARG	P	75	100.955	78.932	20.405	1.00	61.31	PS16
ATOM	48606	O	ARG	P	75	99.995	79.702	20.465	1.00	61.31	PS16
ATOM	48607	N	GLN	P	76	102.071	79.089	21.112	1.00	56.14	PS16
ATOM	48608	CA	GLN	P	76	102.248	80.184	22.056	1.00	56.14	PS16
ATOM	48609	CB	GLN	P	76	103.675	80.225	22.567	1.00	60.96	PS16
ATOM	48610	CG	GLN	P	76	103.765	80.097	24.052	1.00	60.96	PS16
ATOM	48611	CD	GLN	P	76	105.108	80.529	24.566	1.00	60.96	PS16
ATOM	48612	OE1	GLN	P	76	105.499	81.682	24.393	1.00	60.96	PS16
ATOM	48613	NE2	GLN	P	76	105.832	79.610	25.202	1.00	60.96	PS16
ATOM	48614	C	GLN	P	76	101.925	81.519	21.428	1.00	56.14	PS16
ATOM	48615	O	GLN	P	76	101.507	82.445	22.117	1.00	56.14	PS16
ATOM	48616	N	ALA	P	77	102.136	81.620	20.122	1.00	50.13	PS16
ATOM	48617	CA	ALA	P	77	101.844	82.848	19.400	1.00	50.13	PS16
ATOM	48618	CB	ALA	P	77	102.942	83.145	18.411	1.00	57.72	PS16
ATOM	48619	C	ALA	P	77	100.516	82.679	18.677	1.00	50.13	PS16
ATOM	48620	O	ALA	P	77	100.297	83.250	17.607	1.00	50.13	PS16
ATOM	48621	N	GLY	P	78	99.642	81.875	19.273	1.00	50.83	PS16
ATOM	48622	CA	GLY	P	78	98.331	81.630	18.706	1.00	50.83	PS16
ATOM	48623	C	GLY	P	78	98.335	81.506	17.200	1.00	50.83	PS16
ATOM	48624	O	GLY	P	78	97.669	82.265	16.490	1.00	50.83	PS16
ATOM	48625	N	VAL	P	79	99.108	80.560	16.696	1.00	62.72	PS16
ATOM	48626	CA	VAL	P	79	99.142	80.355	15.264	1.00	62.72	PS16
ATOM	48627	CB	VAL	P	79	100.452	79.705	14.824	1.00	54.67	PS16
ATOM	48628	CG1	VAL	P	79	100.450	79.512	13.316	1.00	54.67	PS16
ATOM	48629	CG2	VAL	P	79	101.612	80.580	15.240	1.00	54.67	PS16
ATOM	48630	C	VAL	P	79	97.989	79.425	14.930	1.00	62.72	PS16
ATOM	48631	O	VAL	P	79	97.591	79.298	13.775	1.00	62.72	PS16
ATOM	48632	N	PHE	P	80	97.445	78.785	15.960	1.00	72.82	PS16
ATOM	48633	CA	PHE	P	80	96.345	77.855	15.768	1.00	72.82	PS16
ATOM	48634	CB	PHE	P	80	96.707	76.478	16.316	1.00	58.76	PS16
ATOM	48635	CG	PHE	P	80	98.099	76.022	15.968	1.00	58.76	PS16
ATOM	48636	CD1	PHE	P	80	99.146	76.179	16.889	1.00	58.76	PS16
ATOM	48637	CD2	PHE	P	80	98.358	75.410	14.739	1.00	58.76	PS16
ATOM	48638	CE1	PHE	P	80	100.423	75.730	16.591	1.00	58.76	PS16
ATOM	48639	CE2	PHE	P	80	99.628	74.959	14.430	1.00	58.76	PS16
ATOM	48640	CZ	PHE	P	80	100.668	75.117	15.358	1.00	58.76	PS16
ATOM	48641	C	PHE	P	80	95.044	78.303	16.416	1.00	72.82	PS16



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ATOM	48642	O	PHE	P	80	93.980	77.800	16.063	1.00	72.82	PS16
ATOM	48643	N	ARG	P	81	95.122	79.219	17.380	1.00	78.04	PS16
ATOM	48644	CA	ARG	P	81	93.910	79.707	18.039	1.00	78.04	PS16
ATOM	48645	CB	ARG	P	81	94.222	80.900	18.946	1.00	92.65	PS16
ATOM	48646	CG	ARG	P	81	92.980	81.668	19.363	1.00	92.65	PS16
ATOM	48647	CD	ARG	P	81	93.284	82.854	20.274	1.00	92.65	PS16
ATOM	48648	NE	ARG	P	81	93.538	82.461	21.659	1.00	92.65	PS16
ATOM	48649	CZ	ARG	P	81	94.712	82.046	22.125	1.00	92.65	PS16
ATOM	48650	NH1	ARG	P	81	95.760	81.969	21.313	1.00	92.65	PS16
ATOM	48651	NH2	ARG	P	81	94.838	81.714	23.407	1.00	92.65	PS16
ATOM	48652	C	ARG	P	81	92.914	80.121	16.961	1.00	78.04	PS16
ATOM	48653	O	ARG	P	81	93.214	80.969	16.122	1.00	78.04	PS16
ATOM	48654	N	GLN	P	82	91.729	79.522	16.986	1.00	102.71	PS16
ATOM	48655	CA	GLN	P	82	90.717	79.807	15.977	1.00	102.71	PS16
ATOM	48656	CB	GLN	P	82	90.348	78.501	15.275	1.00	108.71	PS16
ATOM	48657	CG	GLN	P	82	90.074	77.350	16.231	1.00	108.71	PS16
ATOM	48658	CD	GLN	P	82	90.204	75.996	15.557	1.00	108.71	PS16
ATOM	48659	OE1	GLN	P	82	89.723	75.795	14.440	1.00	108.71	PS16
ATOM	48660	NE2	GLN	P	82	90.849	75.055	16.237	1.00	108.71	PS16
ATOM	48661	C	GLN	P	82	89.462	80.510	16.493	1.00	102.71	PS16
ATOM	48662	O	GLN	P	82	88.559	80.829	15.711	1.00	102.71	PS16
ATOM	48663	N	GLU	P	83	89.437	80.761	17.802	1.00	103.22	PS16
ATOM	48664	CA	GLU	P	83	88.329	81.423	18.498	1.00	103.22	PS16
ATOM	48665	CB	GLU	P	83	88.863	82.601	19.316	1.00	177.44	PS16
ATOM	48666	CG	GLU	P	83	89.947	82.215	20.302	1.00	177.44	PS16
ATOM	48667	CD	GLU	P	83	89.550	81.039	21.175	1.00	177.44	PS16
ATOM	48668	OE1	GLU	P	83	88.544	81.154	21.906	1.00	177.44	PS16
ATOM	48669	OE2	GLU	P	83	90.242	79.998	21.128	1.00	177.44	PS16
ATOM	48670	C	GLU	P	83	87.159	81.900	17.638	1.00	103.22	PS16
ATOM	48671	O	GLU	P	83	86.751	83.059	17.712	1.00	103.22	PS16
ATOM	48672	N	ALA	P	84	86.608	80.995	16.838	1.00	197.98	PS16
ATOM	48673	CA	ALA	P	84	85.486	81.328	15.976	1.00	197.98	PS16
ATOM	48674	CB	ALA	P	84	85.451	80.387	14.777	1.00	71.57	PS16
ATOM	48675	C	ALA	P	84	84.205	81.203	16.790	1.00	197.98	PS16
ATOM	48676	O	ALA	P	84	83.106	81.178	16.237	1.00	197.98	PS16
ATOM	48677	N	ARG	P	85	84.366	81.124	18.111	1.00	149.87	PS16
ATOM	48678	CA	ARG	P	85	83.243	81.002	19.037	1.00	149.87	PS16
ATOM	48679	CB	ARG	P	85	82.608	82.373	19.280	1.00	176.23	PS16
ATOM	48680	CG	ARG	P	85	83.562	83.551	19.149	1.00	176.23	PS16
ATOM	48681	CD	ARG	P	85	82.808	84.862	19.318	1.00	176.23	PS16
ATOM	48682	NE	ARG	P	85	83.524	86.005	18.758	1.00	176.23	PS16
ATOM	48683	CZ	ARG	P	85	83.837	86.136	17.472	1.00	176.23	PS16
ATOM	48684	NH1	ARG	P	85	83.503	85.192	16.604	1.00	176.23	PS16
ATOM	48685	NH2	ARG	P	85	84.477	87.217	17.048	1.00	176.23	PS16
ATOM	48686	C	ARG	P	85	82.189	80.058	18.465	1.00	149.87	PS16
ATOM	48687	O	ARG	P	85	80.988	80.264	18.658	1.00	149.87	PS16
ATOM	48688	N	GLU	P	86	82.649	79.028	17.759	1.00	191.15	PS16
ATOM	48689	CA	GLU	P	86	81.761	78.053	17.133	1.00	191.15	PS16
ATOM	48690	CB	GLU	P	86	82.509	77.308	16.022	1.00	141.96	PS16
ATOM	48691	CG	GLU	P	86	81.625	76.400	15.181	1.00	141.96	PS16
ATOM	48692	CD	GLU	P	86	80.646	77.177	14.317	1.00	141.96	PS16
ATOM	48693	OE1	GLU	P	86	81.105	77.881	13.393	1.00	141.96	PS16
ATOM	48694	OE2	GLU	P	86	79.422	77.086	14.563	1.00	141.96	PS16
ATOM	48695	C	GLU	P	86	81.197	77.044	18.130	1.00	191.15	PS16
ATOM	48696	O	GLU	P	86	80.200	76.376	17.851	1.00	191.15	PS16
ATOM	48697	N	GLY	P	87	81.837	76.938	19.290	1.00	197.98	PS16
ATOM	48698	CA	GLY	P	87	81.384	76.001	20.305	1.00	197.98	PS16
ATOM	48699	C	GLY	P	87	80.052	76.364	20.937	1.00	197.98	PS16
ATOM	48700	O	GLY	P	87	79.021	75.770	20.613	1.00	197.98	PS16
ATOM	48701	N	ALA	P	88	80.076	77.334	21.848	1.00	197.98	PS16
ATOM	48702	CA	ALA	P	88	78.869	77.785	22.533	1.00	197.98	PS16
ATOM	48703	CB	ALA	P	88	79.233	78.793	23.641	1.00	96.57	PS16
ATOM	48704	C	ALA	P	88	77.896	78.416	21.537	1.00	197.98	PS16
ATOM	48705	O	ALA	P	88	77.664	79.641	21.638	1.00	197.98	PS16
ATOM	48706	OXT	ALA	P	88	77.384	77.678	20.661	1.00	96.57	PS16
TER	48706		ALA	P	88						PS16
ATOM	48707	CB	PRO	Q	2	112.199	87.202	-22.154	1.00	59.47	QS17
ATOM	48708	CG	PRO	Q	2	113.139	87.757	-21.094	1.00	59.47	QS17
ATOM	48709	C	PRO	Q	2	113.205	84.965	-22.443	1.00	60.22	QS17
ATOM	48710	O	PRO	Q	2	114.381	85.058	-22.093	1.00	60.22	QS17
ATOM	48711	N	PRO	Q	2	112.313	85.701	-20.266	1.00	60.22	QS17
ATOM	48712	CD	PRO	Q	2	112.720	87.032	-19.783	1.00	59.47	QS17
ATOM	48713	CA	PRO	Q	2	112.127	85.745	-21.732	1.00	60.22	QS17
ATOM	48714	N	LYS	Q	3	112.793	84.178	-23.429	1.00	49.72	QS17
ATOM	48715	CA	LYS	Q	3	113.740	83.427	-24.220	1.00	49.72	QS17
ATOM	48716	CB	LYS	Q	3	113.016	82.518	-25.211	1.00	46.94	QS17
ATOM	48717	CG	LYS	Q	3	112.289	81.353	-24.566	1.00	46.94	QS17



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ATOM	48718	CD	LYS	Q	3	111.767	80.383	-25.622	1.00	46.94	QS17
ATOM	48719	CE	LYS	Q	3	111.179	79.109	-25.005	1.00	46.94	QS17
ATOM	48720	NZ	LYS	Q	3	109.833	79.293	-24.387	1.00	46.94	QS17
ATOM	48721	C	LYS	Q	3	114.477	84.534	-24.956	1.00	49.72	QS17
ATOM	48722	O	LYS	Q	3	113.850	85.441	-25.506	1.00	49.72	QS17
ATOM	48723	N	LYS	Q	4	115.802	84.474	-24.931	1.00	36.27	QS17
ATOM	48724	CA	LYS	Q	4	116.658	85.466	-25.576	1.00	36.27	QS17
ATOM	48725	CB	LYS	Q	4	118.114	85.151	-25.234	1.00	57.74	QS17
ATOM	48726	CG	LYS	Q	4	119.140	86.152	-25.724	1.00	57.74	QS17
ATOM	48727	CD	LYS	Q	4	119.305	87.247	-24.706	1.00	57.74	QS17
ATOM	48728	CE	LYS	Q	4	120.509	88.114	-24.986	1.00	57.74	QS17
ATOM	48729	NZ	LYS	Q	4	120.624	89.130	-23.902	1.00	57.74	QS17
ATOM	48730	C	LYS	Q	4	116.502	85.524	-27.106	1.00	36.27	QS17
ATOM	48731	O	LYS	Q	4	116.459	84.490	-27.803	1.00	36.27	QS17
ATOM	48732	N	VAL	Q	5	116.424	86.744	-27.626	1.00	47.28	QS17
ATOM	48733	CA	VAL	Q	5	116.310	86.939	-29.063	1.00	47.28	QS17
ATOM	48734	CB	VAL	Q	5	115.052	87.733	-29.409	1.00	37.93	QS17
ATOM	48735	CG1	VAL	Q	5	114.901	87.812	-30.915	1.00	37.93	QS17
ATOM	48736	CG2	VAL	Q	5	113.834	87.077	-28.775	1.00	37.93	QS17
ATOM	48737	C	VAL	Q	5	117.544	87.717	-29.510	1.00	47.28	QS17
ATOM	48738	O	VAL	Q	5	117.950	88.659	-28.836	1.00	47.28	QS17
ATOM	48739	N	LEU	Q	6	118.156	87.323	-30.624	1.00	48.70	QS17
ATOM	48740	CA	LEU	Q	6	119.352	88.024	-31.092	1.00	48.70	QS17
ATOM	48741	CB	LEU	Q	6	120.611	87.191	-30.831	1.00	32.91	QS17
ATOM	48742	CG	LEU	Q	6	120.900	86.686	-29.412	1.00	32.91	QS17
ATOM	48743	CD1	LEU	Q	6	122.254	85.997	-29.384	1.00	32.91	QS17
ATOM	48744	CD2	LEU	Q	6	120.885	87.835	-28.430	1.00	32.91	QS17
ATOM	48745	C	LEU	Q	6	119.281	88.336	-32.576	1.00	48.70	QS17
ATOM	48746	O	LEU	Q	6	118.517	87.707	-33.314	1.00	48.70	QS17
ATOM	48747	N	THR	Q	7	120.079	89.311	-33.014	1.00	47.06	QS17
ATOM	48748	CA	THR	Q	7	120.106	89.682	-34.427	1.00	47.06	QS17
ATOM	48749	CB	THR	Q	7	119.749	91.154	-34.654	1.00	71.56	QS17
ATOM	48750	OG1	THR	Q	7	118.406	91.400	-34.221	1.00	71.56	QS17
ATOM	48751	CG2	THR	Q	7	119.864	91.490	-36.135	1.00	71.56	QS17
ATOM	48752	C	THR	Q	7	121.472	89.457	-35.040	1.00	47.06	QS17
ATOM	48753	O	THR	Q	7	122.481	89.904	-34.515	1.00	47.06	QS17
ATOM	48754	N	GLY	Q	8	121.500	88.778	-36.171	1.00	54.27	QS17
ATOM	48755	CA	GLY	Q	8	122.772	88.528	-36.805	1.00	54.27	QS17
ATOM	48756	C	GLY	Q	8	122.620	88.355	-38.298	1.00	54.27	QS17
ATOM	48757	O	GLY	Q	8	121.527	88.515	-38.852	1.00	54.27	QS17
ATOM	48758	N	VAL	Q	9	123.728	88.020	-38.946	1.00	54.36	QS17
ATOM	48759	CA	VAL	Q	9	123.736	87.822	-40.374	1.00	54.36	QS17
ATOM	48760	CB	VAL	Q	9	124.807	88.640	-41.018	1.00	52.53	QS17
ATOM	48761	CG1	VAL	Q	9	124.774	88.423	-42.510	1.00	52.53	QS17
ATOM	48762	CG2	VAL	Q	9	124.604	90.085	-40.668	1.00	52.53	QS17
ATOM	48763	C	VAL	Q	9	124.017	86.381	-40.705	1.00	54.36	QS17
ATOM	48764	O	VAL	Q	9	124.838	85.739	-40.051	1.00	54.36	QS17
ATOM	48765	N	VAL	Q	10	123.340	85.886	-41.734	1.00	56.44	QS17
ATOM	48766	CA	VAL	Q	10	123.507	84.514	-42.185	1.00	56.44	QS17
ATOM	48767	CB	VAL	Q	10	122.275	84.074	-43.012	1.00	41.06	QS17
ATOM	48768	CG1	VAL	Q	10	122.556	82.784	-43.753	1.00	41.06	QS17
ATOM	48769	CG2	VAL	Q	10	121.094	83.872	-42.088	1.00	41.06	QS17
ATOM	48770	C	VAL	Q	10	124.774	84.421	-43.034	1.00	56.44	QS17
ATOM	48771	O	VAL	Q	10	124.777	84.835	-44.190	1.00	56.44	QS17
ATOM	48772	N	VAL	Q	11	125.850	83.887	-42.462	1.00	58.54	QS17
ATOM	48773	CA	VAL	Q	11	127.105	83.772	-43.194	1.00	58.54	QS17
ATOM	48774	CB	VAL	Q	11	128.343	84.045	-42.286	1.00	29.27	QS17
ATOM	48775	CG1	VAL	Q	11	128.120	85.283	-41.442	1.00	29.27	QS17
ATOM	48776	CG2	VAL	Q	11	128.620	82.850	-41.403	1.00	29.27	QS17
ATOM	48777	C	VAL	Q	11	127.283	82.394	-43.823	1.00	58.54	QS17
ATOM	48778	O	VAL	Q	11	128.164	82.205	-44.666	1.00	58.54	QS17
ATOM	48779	N	SER	Q	12	126.466	81.424	-43.424	1.00	69.20	QS17
ATOM	48780	CA	SER	Q	12	126.618	80.092	-43.996	1.00	69.20	QS17
ATOM	48781	CB	SER	Q	12	127.519	79.229	-43.116	1.00	72.66	QS17
ATOM	48782	OG	SER	Q	12	127.615	77.915	-43.640	1.00	72.66	QS17
ATOM	48783	C	SER	Q	12	125.320	79.354	-44.226	1.00	69.20	QS17
ATOM	48784	O	SER	Q	12	124.483	79.262	-43.329	1.00	69.20	QS17
ATOM	48785	N	ASP	Q	13	125.172	78.814	-45.432	1.00	65.27	QS17
ATOM	48786	CA	ASP	Q	13	123.983	78.073	-45.800	1.00	65.27	QS17
ATOM	48787	CB	ASP	Q	13	123.220	78.828	-46.885	1.00	172.06	QS17
ATOM	48788	CG	ASP	Q	13	121.777	78.389	-46.987	1.00	172.06	QS17
ATOM	48789	OD1	ASP	Q	13	121.008	79.054	-47.713	1.00	172.06	QS17
ATOM	48790	OD2	ASP	Q	13	121.413	77.379	-46.342	1.00	172.06	QS17
ATOM	48791	C	ASP	Q	13	124.381	76.687	-46.297	1.00	65.27	QS17
ATOM	48792	O	ASP	Q	13	123.560	75.957	-46.858	1.00	65.27	QS17
ATOM	48793	N	LYS	Q	14	125.642	76.320	-46.068	1.00	70.68	QS17
ATOM	48794	CA	LYS	Q	14	126.164	75.025	-46.500	1.00	70.68	QS17



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ATOM	48795	CB	LYS	Q	14	127.688	74.989	-46.363	1.00113.39	QS17
ATOM	48796	CG	LYS	Q	14	128.444	75.822	-47.378	1.00113.39	QS17
ATOM	48797	CD	LYS	Q	14	129.938	75.578	-47.236	1.00113.39	QS17
ATOM	48798	CE	LYS	Q	14	130.759	76.379	-48.236	1.00113.39	QS17
ATOM	48799	NZ	LYS	Q	14	132.220	76.069	-48.123	1.00113.39	QS17
ATOM	48800	C	LYS	Q	14	125.585	73.799	-45.790	1.00 70.68	QS17
ATOM	48801	O	LYS	Q	14	125.885	72.672	-46.171	1.00 70.68	QS17
ATOM	48802	N	MET	Q	15	124.772	73.997	-44.760	1.00 86.45	QS17
ATOM	48803	CA	MET	Q	15	124.193	72.857	-44.057	1.00 86.45	QS17
ATOM	48804	CB	MET	Q	15	124.322	73.032	-42.544	1.00 66.07	QS17
ATOM	48805	CG	MET	Q	15	125.742	72.971	-42.025	1.00 66.07	QS17
ATOM	48806	SD	MET	Q	15	125.825	73.221	-40.236	1.00 66.07	QS17
ATOM	48807	CE	MET	Q	15	125.393	74.966	-40.109	1.00 66.07	QS17
ATOM	48808	C	MET	Q	15	122.726	72.677	-44.419	1.00 86.45	QS17
ATOM	48809	O	MET	Q	15	122.135	73.527	-45.097	1.00 86.45	QS17
ATOM	48810	N	GLN	Q	16	122.149	71.565	-43.965	1.00 77.28	QS17
ATOM	48811	CA	GLN	Q	16	120.744	71.254	-44.211	1.00 77.28	QS17
ATOM	48812	CB	GLN	Q	16	120.564	69.751	-44.407	1.00 91.26	QS17
ATOM	48813	CG	GLN	Q	16	121.376	69.169	-45.547	1.00 91.26	QS17
ATOM	48814	CD	GLN	Q	16	121.280	67.646	-45.632	1.00 91.26	QS17
ATOM	48815	OE1	GLN	Q	16	121.870	67.025	-46.522	1.00 91.26	QS17
ATOM	48816	NE2	GLN	Q	16	120.536	67.040	-44.705	1.00 91.26	QS17
ATOM	48817	C	GLN	Q	16	119.926	71.704	-43.006	1.00 77.28	QS17
ATOM	48818	O	GLN	Q	16	120.313	71.449	-41.865	1.00 77.28	QS17
ATOM	48819	N	LYS	Q	17	118.805	72.375	-43.260	1.00 59.73	QS17
ATOM	48820	CA	LYS	Q	17	117.915	72.859	-42.200	1.00 59.73	QS17
ATOM	48821	CB	LYS	Q	17	117.157	71.684	-41.573	1.00 63.03	QS17
ATOM	48822	CG	LYS	Q	17	116.338	70.849	-42.550	1.00 63.03	QS17
ATOM	48823	CD	LYS	Q	17	115.445	69.867	-41.795	1.00 63.03	QS17
ATOM	48824	CE	LYS	Q	17	114.576	69.014	-42.718	1.00 63.03	QS17
ATOM	48825	NZ	LYS	Q	17	115.338	67.903	-43.366	1.00 63.03	QS17
ATOM	48826	C	LYS	Q	17	118.635	73.648	-41.095	1.00 59.73	QS17
ATOM	48827	O	LYS	Q	17	118.105	73.825	-39.986	1.00 59.73	QS17
ATOM	48828	N	THR	Q	18	119.841	74.123	-41.405	1.00 60.98	QS17
ATOM	48829	CA	THR	Q	18	120.630	74.896	-40.450	1.00 60.98	QS17
ATOM	48830	CB	THR	Q	18	121.729	74.019	-39.781	1.00 64.18	QS17
ATOM	48831	OG1	THR	Q	18	121.194	72.734	-39.436	1.00 64.18	QS17
ATOM	48832	CG2	THR	Q	18	122.245	74.694	-38.514	1.00 64.18	QS17
ATOM	48833	C	THR	Q	18	121.330	76.075	-41.149	1.00 60.98	QS17
ATOM	48834	O	THR	Q	18	121.688	75.986	-42.325	1.00 60.98	QS17
ATOM	48835	N	VAL	Q	19	121.500	77.182	-40.429	1.00 62.24	QS17
ATOM	48836	CA	VAL	Q	19	122.200	78.349	-40.963	1.00 62.24	QS17
ATOM	48837	CB	VAL	Q	19	121.262	79.482	-41.396	1.00 36.65	QS17
ATOM	48838	CG1	VAL	Q	19	120.514	79.068	-42.637	1.00 36.65	QS17
ATOM	48839	CG2	VAL	Q	19	120.309	79.838	-40.269	1.00 36.65	QS17
ATOM	48840	C	VAL	Q	19	123.105	78.906	-39.889	1.00 62.24	QS17
ATOM	48841	O	VAL	Q	19	122.788	78.830	-38.694	1.00 62.24	QS17
ATOM	48842	N	THR	Q	20	124.235	79.464	-40.311	1.00 49.03	QS17
ATOM	48843	CA	THR	Q	20	125.167	80.022	-39.359	1.00 49.03	QS17
ATOM	48844	CB	THR	Q	20	126.601	79.769	-39.764	1.00 60.97	QS17
ATOM	48845	OG1	THR	Q	20	126.766	78.386	-40.096	1.00 60.97	QS17
ATOM	48846	CG2	THR	Q	20	127.521	80.113	-38.604	1.00 60.97	QS17
ATOM	48847	C	THR	Q	20	124.966	81.509	-39.264	1.00 49.03	QS17
ATOM	48848	O	THR	Q	20	125.325	82.241	-40.176	1.00 49.03	QS17
ATOM	48849	N	VAL	Q	21	124.385	81.954	-38.160	1.00 51.87	QS17
ATOM	48850	CA	VAL	Q	21	124.160	83.371	-37.972	1.00 51.87	QS17
ATOM	48851	CB	VAL	Q	21	122.829	83.633	-37.282	1.00 37.89	QS17
ATOM	48852	CG1	VAL	Q	21	122.668	85.123	-37.030	1.00 37.89	QS17
ATOM	48853	CG2	VAL	Q	21	121.706	83.124	-38.154	1.00 37.89	QS17
ATOM	48854	C	VAL	Q	21	125.278	84.012	-37.160	1.00 51.87	QS17
ATOM	48855	O	VAL	Q	21	125.734	83.474	-36.149	1.00 51.87	QS17
ATOM	48856	N	LEU	Q	22	125.708	85.179	-37.607	1.00 39.86	QS17
ATOM	48857	CA	LEU	Q	22	126.778	85.868	-36.945	1.00 39.86	QS17
ATOM	48858	CB	LEU	Q	22	127.825	86.257	-37.976	1.00 26.48	QS17
ATOM	48859	CG	LEU	Q	22	128.962	87.110	-37.420	1.00 26.48	QS17
ATOM	48860	CD1	LEU	Q	22	129.611	86.399	-36.234	1.00 26.48	QS17
ATOM	48861	CD2	LEU	Q	22	129.968	87.372	-38.517	1.00 26.48	QS17
ATOM	48862	C	LEU	Q	22	126.305	87.100	-36.184	1.00 39.86	QS17
ATOM	48863	O	LEU	Q	22	126.283	88.205	-36.722	1.00 39.86	QS17
ATOM	48864	N	VAL	Q	23	125.938	86.903	-34.924	1.00 38.32	QS17
ATOM	48865	CA	VAL	Q	23	125.477	87.989	-34.059	1.00 38.32	QS17
ATOM	48866	CB	VAL	Q	23	124.787	87.427	-32.803	1.00 53.86	QS17
ATOM	48867	CG1	VAL	Q	23	124.452	88.556	-31.843	1.00 53.86	QS17
ATOM	48868	CG2	VAL	Q	23	123.540	86.656	-33.199	1.00 53.86	QS17
ATOM	48869	C	VAL	Q	23	126.640	88.853	-33.582	1.00 38.32	QS17
ATOM	48870	O	VAL	Q	23	127.598	88.335	-33.019	1.00 38.32	QS17
ATOM	48871	N	GLU	Q	24	126.557	90.163	-33.789	1.00 50.29	QS17



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ATOM	48872	CA	GLU	Q	24	127.624	91.056	-33.340	1.00	50.29	QS17
ATOM	48873	CB	GLU	Q	24	127.888	92.119	-34.389	1.00	99.42	QS17
ATOM	48874	CG	GLU	Q	24	129.061	92.992	-34.064	1.00	99.42	QS17
ATOM	48875	CD	GLU	Q	24	129.435	93.870	-35.227	1.00	99.42	QS17
ATOM	48876	OE1	GLU	Q	24	129.795	93.313	-36.289	1.00	99.42	QS17
ATOM	48877	OE2	GLU	Q	24	129.361	95.111	-35.087	1.00	99.42	QS17
ATOM	48878	C	GLU	Q	24	127.189	91.695	-32.024	1.00	50.29	QS17
ATOM	48879	O	GLU	Q	24	125.993	91.791	-31.759	1.00	50.29	QS17
ATOM	48880	N	ARG	Q	25	128.139	92.147	-31.211	1.00	43.31	QS17
ATOM	48881	CA	ARG	Q	25	127.801	92.707	-29.901	1.00	43.31	QS17
ATOM	48882	CB	ARG	Q	25	127.832	91.578	-28.870	1.00	36.64	QS17
ATOM	48883	CG	ARG	Q	25	127.925	92.034	-27.426	1.00	36.64	QS17
ATOM	48884	CD	ARG	Q	25	127.825	90.853	-26.454	1.00	36.64	QS17
ATOM	48885	NE	ARG	Q	25	128.968	89.948	-26.543	1.00	36.64	QS17
ATOM	48886	CZ	ARG	Q	25	129.912	89.841	-25.609	1.00	36.64	QS17
ATOM	48887	NH1	ARG	Q	25	129.853	90.578	-24.498	1.00	36.64	QS17
ATOM	48888	NH2	ARG	Q	25	130.931	89.008	-25.793	1.00	36.64	QS17
ATOM	48889	C	ARG	Q	25	128.723	93.817	-29.433	1.00	43.31	QS17
ATOM	48890	O	ARG	Q	25	129.917	93.794	-29.716	1.00	43.31	QS17
ATOM	48891	N	GLN	Q	26	128.189	94.783	-28.694	1.00	37.54	QS17
ATOM	48892	CA	GLN	Q	26	129.041	95.867	-28.203	1.00	37.54	QS17
ATOM	48893	CB	GLN	Q	26	128.621	97.202	-28.806	1.00	75.59	QS17
ATOM	48894	CG	GLN	Q	26	128.636	97.183	-30.314	1.00	75.59	QS17
ATOM	48895	CD	GLN	Q	26	128.822	98.553	-30.905	1.00	75.59	QS17
ATOM	48896	OE1	GLN	Q	26	128.157	99.509	-30.502	1.00	75.59	QS17
ATOM	48897	NE2	GLN	Q	26	129.726	98.661	-31.874	1.00	75.59	QS17
ATOM	48898	C	GLN	Q	26	129.022	95.958	-26.689	1.00	37.54	QS17
ATOM	48899	O	GLN	Q	26	128.196	95.318	-26.046	1.00	37.54	QS17
ATOM	48900	N	PHE	Q	27	129.933	96.753	-26.128	1.00	38.34	QS17
ATOM	48901	CA	PHE	Q	27	130.039	96.915	-24.680	1.00	38.34	QS17
ATOM	48902	CB	PHE	Q	27	129.929	95.577	-23.976	1.00	36.86	QS17
ATOM	48903	CG	PHE	Q	27	131.116	94.680	-24.170	1.00	36.86	QS17
ATOM	48904	CD1	PHE	Q	27	132.206	94.755	-23.317	1.00	36.86	QS17
ATOM	48905	CD2	PHE	Q	27	131.114	93.703	-25.176	1.00	36.86	QS17
ATOM	48906	CE1	PHE	Q	27	133.275	93.856	-23.459	1.00	36.86	QS17
ATOM	48907	CE2	PHE	Q	27	132.180	92.802	-25.326	1.00	36.86	QS17
ATOM	48908	CZ	PHE	Q	27	133.253	92.876	-24.471	1.00	36.86	QS17
ATOM	48909	C	PHE	Q	27	131.326	97.557	-24.219	1.00	38.34	QS17
ATOM	48910	O	PHE	Q	27	132.396	97.362	-24.803	1.00	38.34	QS17
ATOM	48911	N	PRO	Q	28	131.245	98.297	-23.116	1.00	42.27	QS17
ATOM	48912	CD	PRO	Q	28	130.127	98.270	-22.160	1.00	40.19	QS17
ATOM	48913	CA	PRO	Q	28	132.388	98.989	-22.535	1.00	42.27	QS17
ATOM	48914	CB	PRO	Q	28	131.759	99.770	-21.404	1.00	40.19	QS17
ATOM	48915	CG	PRO	Q	28	130.773	98.776	-20.892	1.00	40.19	QS17
ATOM	48916	C	PRO	Q	28	133.359	97.967	-22.011	1.00	42.27	QS17
ATOM	48917	O	PRO	Q	28	132.965	96.993	-21.372	1.00	42.27	QS17
ATOM	48918	N	HIS	Q	29	134.629	98.176	-22.296	1.00	30.13	QS17
ATOM	48919	CA	HIS	Q	29	135.629	97.263	-21.797	1.00	30.13	QS17
ATOM	48920	CB	HIS	Q	29	136.993	97.614	-22.396	1.00	50.59	QS17
ATOM	48921	CG	HIS	Q	29	138.120	96.780	-21.875	1.00	50.59	QS17
ATOM	48922	CD2	HIS	Q	29	138.806	95.759	-22.439	1.00	50.59	QS17
ATOM	48923	ND1	HIS	Q	29	138.655	96.954	-20.615	1.00	50.59	QS17
ATOM	48924	CE1	HIS	Q	29	139.619	96.074	-20.427	1.00	50.59	QS17
ATOM	48925	NE2	HIS	Q	29	139.731	95.337	-21.518	1.00	50.59	QS17
ATOM	48926	C	HIS	Q	29	135.616	97.467	-20.276	1.00	30.13	QS17
ATOM	48927	O	HIS	Q	29	135.621	98.586	-19.787	1.00	30.13	QS17
ATOM	48928	N	PRO	Q	30	135.595	96.378	-19.516	1.00	37.52	QS17
ATOM	48929	CD	PRO	Q	30	135.895	95.022	-19.999	1.00	43.39	QS17
ATOM	48930	CA	PRO	Q	30	135.574	96.408	-18.055	1.00	37.52	QS17
ATOM	48931	CB	PRO	Q	30	135.711	94.938	-17.691	1.00	43.39	QS17
ATOM	48932	CG	PRO	Q	30	136.570	94.419	-18.802	1.00	43.39	QS17
ATOM	48933	C	PRO	Q	30	136.626	97.262	-17.341	1.00	37.52	QS17
ATOM	48934	O	PRO	Q	30	136.408	97.662	-16.201	1.00	37.52	QS17
ATOM	48935	N	LEU	Q	31	137.764	97.536	-17.972	1.00	32.53	QS17
ATOM	48936	CA	LEU	Q	31	138.790	98.337	-17.295	1.00	32.53	QS17
ATOM	48937	CB	LEU	Q	31	140.030	97.491	-17.000	1.00	25.96	QS17
ATOM	48938	CG	LEU	Q	31	141.267	98.265	-16.508	1.00	25.96	QS17
ATOM	48939	CD1	LEU	Q	31	140.943	99.080	-15.260	1.00	25.96	QS17
ATOM	48940	CD2	LEU	Q	31	142.396	97.283	-16.226	1.00	25.96	QS17
ATOM	48941	C	LEU	Q	31	139.233	99.578	-18.040	1.00	32.53	QS17
ATOM	48942	O	LEU	Q	31	139.601	100.577	-17.429	1.00	32.53	QS17
ATOM	48943	N	TYR	Q	32	139.216	99.502	-19.363	1.00	45.08	QS17
ATOM	48944	CA	TYR	Q	32	139.626	100.616	-20.191	1.00	45.08	QS17
ATOM	48945	CB	TYR	Q	32	140.483	100.063	-21.310	1.00	43.66	QS17
ATOM	48946	CG	TYR	Q	32	141.719	99.440	-20.720	1.00	43.66	QS17
ATOM	48947	CD1	TYR	Q	32	142.315	98.306	-21.280	1.00	43.66	QS17
ATOM	48948	CE1	TYR	Q	32	143.439	97.727	-20.681	1.00	43.66	QS17



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ATOM	48949	CD2	TYR	Q	32	142.280	99.981	-19.559	1.00	43.66	QS17
ATOM	48950	CE2	TYR	Q	32	143.393	99.417	-18.957	1.00	43.66	QS17
ATOM	48951	CZ	TYR	Q	32	143.965	98.292	-19.511	1.00	43.66	QS17
ATOM	48952	OH	TYR	Q	32	145.022	97.726	-18.833	1.00	43.66	QS17
ATOM	48953	C	TYR	Q	32	138.420	101.382	-20.690	1.00	45.08	QS17
ATOM	48954	O	TYR	Q	32	138.541	102.428	-21.323	1.00	45.08	QS17
ATOM	48955	N	GLY	Q	33	137.250	100.840	-20.382	1.00	39.99	QS17
ATOM	48956	CA	GLY	Q	33	135.992	101.473	-20.729	1.00	39.99	QS17
ATOM	48957	C	GLY	Q	33	135.668	101.803	-22.166	1.00	39.99	QS17
ATOM	48958	O	GLY	Q	33	134.534	102.204	-22.456	1.00	39.99	QS17
ATOM	48959	N	LYS	Q	34	136.621	101.652	-23.078	1.00	26.92	QS17
ATOM	48960	CA	LYS	Q	34	136.288	101.987	-24.451	1.00	26.92	QS17
ATOM	48961	CB	LYS	Q	34	137.537	102.009	-25.341	1.00	34.82	QS17
ATOM	48962	CG	LYS	Q	34	137.942	100.687	-25.921	1.00	34.82	QS17
ATOM	48963	CD	LYS	Q	34	137.809	100.673	-27.457	1.00	34.82	QS17
ATOM	48964	CE	LYS	Q	34	138.837	101.564	-28.170	1.00	34.82	QS17
ATOM	48965	NZ	LYS	Q	34	138.732	101.386	-29.651	1.00	34.82	QS17
ATOM	48966	C	LYS	Q	34	135.285	100.943	-24.894	1.00	26.92	QS17
ATOM	48967	O	LYS	Q	34	135.290	99.830	-24.379	1.00	26.92	QS17
ATOM	48968	N	VAL	Q	35	134.379	101.317	-25.787	1.00	39.17	QS17
ATOM	48969	CA	VAL	Q	35	133.397	100.361	-26.273	1.00	39.17	QS17
ATOM	48970	CB	VAL	Q	35	132.296	101.002	-27.110	1.00	24.05	QS17
ATOM	48971	CG1	VAL	Q	35	131.294	99.928	-27.514	1.00	24.05	QS17
ATOM	48972	CG2	VAL	Q	35	131.633	102.111	-26.361	1.00	24.05	QS17
ATOM	48973	C	VAL	Q	35	134.126	99.455	-27.234	1.00	39.17	QS17
ATOM	48974	O	VAL	Q	35	134.659	99.924	-28.231	1.00	39.17	QS17
ATOM	48975	N	ILE	Q	36	134.160	98.165	-26.956	1.00	38.51	QS17
ATOM	48976	CA	ILE	Q	36	134.829	97.267	-27.873	1.00	38.51	QS17
ATOM	48977	CB	ILE	Q	36	135.762	96.332	-27.127	1.00	53.52	QS17
ATOM	48978	CG2	ILE	Q	36	136.628	97.136	-26.167	1.00	53.52	QS17
ATOM	48979	CG1	ILE	Q	36	134.951	95.325	-26.318	1.00	53.52	QS17
ATOM	48980	CD1	ILE	Q	36	135.811	94.432	-25.466	1.00	53.52	QS17
ATOM	48981	C	ILE	Q	36	133.702	96.491	-28.540	1.00	38.51	QS17
ATOM	48982	O	ILE	Q	36	132.574	96.459	-28.033	1.00	38.51	QS17
ATOM	48983	N	LYS	Q	37	133.986	95.879	-29.680	1.00	47.09	QS17
ATOM	48984	CA	LYS	Q	37	132.954	95.135	-30.374	1.00	47.09	QS17
ATOM	48985	CB	LYS	Q	37	132.669	95.799	-31.703	1.00	55.20	QS17
ATOM	48986	CG	LYS	Q	37	131.660	95.088	-32.544	1.00	55.20	QS17
ATOM	48987	CD	LYS	Q	37	131.808	95.551	-33.972	1.00	55.20	QS17
ATOM	48988	CE	LYS	Q	37	131.676	97.071	-34.069	1.00	55.20	QS17
ATOM	48989	NZ	LYS	Q	37	132.102	97.604	-35.406	1.00	55.20	QS17
ATOM	48990	C	LYS	Q	37	133.428	93.713	-30.581	1.00	47.09	QS17
ATOM	48991	O	LYS	Q	37	134.545	93.487	-31.032	1.00	47.09	QS17
ATOM	48992	N	ARG	Q	38	132.570	92.760	-30.241	1.00	55.62	QS17
ATOM	48993	CA	ARG	Q	38	132.873	91.338	-30.355	1.00	55.62	QS17
ATOM	48994	CB	ARG	Q	38	132.850	90.718	-28.957	1.00	79.69	QS17
ATOM	48995	CG	ARG	Q	38	133.874	89.631	-28.719	1.00	79.69	QS17
ATOM	48996	CD	ARG	Q	38	135.153	90.196	-28.117	1.00	79.69	QS17
ATOM	48997	NE	ARG	Q	38	135.762	91.225	-28.952	1.00	79.69	QS17
ATOM	48998	CZ	ARG	Q	38	136.903	91.836	-28.654	1.00	79.69	QS17
ATOM	48999	NH1	ARG	Q	38	137.553	91.511	-27.540	1.00	79.69	QS17
ATOM	49000	NH2	ARG	Q	38	137.394	92.768	-29.464	1.00	79.69	QS17
ATOM	49001	C	ARG	Q	38	131.791	90.683	-31.222	1.00	55.62	QS17
ATOM	49002	O	ARG	Q	38	130.822	91.332	-31.610	1.00	55.62	QS17
ATOM	49003	N	SER	Q	39	131.937	89.400	-31.526	1.00	60.61	QS17
ATOM	49004	CA	SER	Q	39	130.923	88.718	-32.325	1.00	60.61	QS17
ATOM	49005	CB	SER	Q	39	131.185	88.950	-33.815	1.00	58.51	QS17
ATOM	49006	OG	SER	Q	39	132.415	88.381	-34.214	1.00	58.51	QS17
ATOM	49007	C	SER	Q	39	130.867	87.217	-32.012	1.00	60.61	QS17
ATOM	49008	O	SER	Q	39	131.706	86.702	-31.270	1.00	60.61	QS17
ATOM	49009	N	LYS	Q	40	129.880	86.517	-32.569	1.00	45.59	QS17
ATOM	49010	CA	LYS	Q	40	129.739	85.086	-32.315	1.00	45.59	QS17
ATOM	49011	CB	LYS	Q	40	129.208	84.893	-30.901	1.00	49.11	QS17
ATOM	49012	CG	LYS	Q	40	128.852	83.469	-30.526	1.00	49.11	QS17
ATOM	49013	CD	LYS	Q	40	128.439	83.474	-29.074	1.00	49.11	QS17
ATOM	49014	CE	LYS	Q	40	127.946	82.140	-28.606	1.00	49.11	QS17
ATOM	49015	NZ	LYS	Q	40	127.522	82.303	-27.187	1.00	49.11	QS17
ATOM	49016	C	LYS	Q	40	128.826	84.382	-33.318	1.00	45.59	QS17
ATOM	49017	O	LYS	Q	40	127.774	84.899	-33.679	1.00	45.59	QS17
ATOM	49018	N	LYS	Q	41	129.221	83.201	-33.770	1.00	38.70	QS17
ATOM	49019	CA	LYS	Q	41	128.396	82.493	-34.732	1.00	38.70	QS17
ATOM	49020	CB	LYS	Q	41	129.246	81.722	-35.744	1.00	34.51	QS17
ATOM	49021	CG	LYS	Q	41	129.924	82.574	-36.805	1.00	34.51	QS17
ATOM	49022	CD	LYS	Q	41	130.846	81.723	-37.686	1.00	34.51	QS17
ATOM	49023	CE	LYS	Q	41	131.974	81.117	-36.861	1.00	34.51	QS17
ATOM	49024	NZ	LYS	Q	41	132.757	80.048	-37.554	1.00	34.51	QS17
ATOM	49025	C	LYS	Q	41	127.509	81.511	-34.020	1.00	38.70	QS17



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ATOM	49026	O	LYS	Q	41	127.987	80.725	-33.205	1.00	38.70	QS17
ATOM	49027	N	TYR	Q	42	126.217	81.562	-34.336	1.00	45.90	QS17
ATOM	49028	CA	TYR	Q	42	125.230	80.648	-33.772	1.00	45.90	QS17
ATOM	49029	CB	TYR	Q	42	124.068	81.418	-33.163	1.00	36.88	QS17
ATOM	49030	CG	TYR	Q	42	124.386	82.171	-31.911	1.00	36.88	QS17
ATOM	49031	CD1	TYR	Q	42	124.918	83.444	-31.961	1.00	36.88	QS17
ATOM	49032	CE1	TYR	Q	42	125.196	84.151	-30.786	1.00	36.88	QS17
ATOM	49033	CD2	TYR	Q	42	124.137	81.609	-30.666	1.00	36.88	QS17
ATOM	49034	CE2	TYR	Q	42	124.413	82.298	-29.485	1.00	36.88	QS17
ATOM	49035	CZ	TYR	Q	42	124.943	83.567	-29.546	1.00	36.88	QS17
ATOM	49036	OH	TYR	Q	42	125.248	84.240	-28.375	1.00	36.88	QS17
ATOM	49037	C	TYR	Q	42	124.670	79.778	-34.895	1.00	45.90	QS17
ATOM	49038	O	TYR	Q	42	124.431	80.277	-35.997	1.00	45.90	QS17
ATOM	49039	N	LEU	Q	43	124.465	78.489	-34.637	1.00	41.02	QS17
ATOM	49040	CA	LEU	Q	43	123.879	77.623	-35.664	1.00	41.02	QS17
ATOM	49041	CB	LEU	Q	43	124.415	76.193	-35.583	1.00	30.64	QS17
ATOM	49042	CG	LEU	Q	43	125.862	75.989	-36.038	1.00	30.64	QS17
ATOM	49043	CD1	LEU	Q	43	126.104	74.518	-36.359	1.00	30.64	QS17
ATOM	49044	CD2	LEU	Q	43	126.124	76.832	-37.288	1.00	30.64	QS17
ATOM	49045	C	LEU	Q	43	122.380	77.615	-35.446	1.00	41.02	QS17
ATOM	49046	O	LEU	Q	43	121.873	77.001	-34.499	1.00	41.02	QS17
ATOM	49047	N	ALA	Q	44	121.675	78.316	-36.322	1.00	57.57	QS17
ATOM	49048	CA	ALA	Q	44	120.232	78.419	-36.212	1.00	57.57	QS17
ATOM	49049	CB	ALA	Q	44	119.786	79.805	-36.626	1.00	59.41	QS17
ATOM	49050	C	ALA	Q	44	119.524	77.365	-37.048	1.00	57.57	QS17
ATOM	49051	O	ALA	Q	44	119.981	77.007	-38.143	1.00	57.57	QS17
ATOM	49052	N	HIS	Q	45	118.403	76.875	-36.528	1.00	49.52	QS17
ATOM	49053	CA	HIS	Q	45	117.639	75.845	-37.214	1.00	49.52	QS17
ATOM	49054	CB	HIS	Q	45	116.883	75.010	-36.183	1.00	60.96	QS17
ATOM	49055	CG	HIS	Q	45	116.018	73.943	-36.777	1.00	60.96	QS17
ATOM	49056	CD2	HIS	Q	45	114.724	73.615	-36.546	1.00	60.96	QS17
ATOM	49057	ND1	HIS	Q	45	116.479	73.057	-37.727	1.00	60.96	QS17
ATOM	49058	CE1	HIS	Q	45	115.502	72.230	-38.057	1.00	60.96	QS17
ATOM	49059	NE2	HIS	Q	45	114.428	72.547	-37.356	1.00	60.96	QS17
ATOM	49060	C	HIS	Q	45	116.672	76.456	-38.214	1.00	49.52	QS17
ATOM	49061	O	HIS	Q	45	115.823	77.265	-37.850	1.00	49.52	QS17
ATOM	49062	N	ASP	Q	46	116.806	76.072	-39.474	1.00	69.20	QS17
ATOM	49063	CA	ASP	Q	46	115.940	76.593	-40.519	1.00	69.20	QS17
ATOM	49064	CB	ASP	Q	46	116.758	77.443	-41.489	1.00	97.88	QS17
ATOM	49065	CG	ASP	Q	46	115.972	77.844	-42.714	1.00	97.88	QS17
ATOM	49066	OD1	ASP	Q	46	116.594	78.288	-43.706	1.00	97.88	QS17
ATOM	49067	OD2	ASP	Q	46	114.729	77.714	-42.679	1.00	97.88	QS17
ATOM	49068	C	ASP	Q	46	115.302	75.419	-41.261	1.00	69.20	QS17
ATOM	49069	O	ASP	Q	46	115.831	74.949	-42.270	1.00	69.20	QS17
ATOM	49070	N	PRO	Q	47	114.148	74.935	-40.774	1.00	72.74	QS17
ATOM	49071	CD	PRO	Q	47	113.412	75.452	-39.611	1.00	58.40	QS17
ATOM	49072	CA	PRO	Q	47	113.426	73.809	-41.372	1.00	72.74	QS17
ATOM	49073	CB	PRO	Q	47	112.156	73.732	-40.538	1.00	58.40	QS17
ATOM	49074	CG	PRO	Q	47	112.584	74.259	-39.218	1.00	58.40	QS17
ATOM	49075	C	PRO	Q	47	113.107	73.976	-42.846	1.00	72.74	QS17
ATOM	49076	O	PRO	Q	47	113.411	73.106	-43.659	1.00	72.74	QS17
ATOM	49077	N	GLU	Q	48	112.494	75.100	-43.188	1.00	79.72	QS17
ATOM	49078	CA	GLU	Q	48	112.102	75.359	-44.565	1.00	79.72	QS17
ATOM	49079	CB	GLU	Q	48	111.069	76.486	-44.595	1.00	131.68	QS17
ATOM	49080	CG	GLU	Q	48	109.893	76.286	-43.655	1.00	131.68	QS17
ATOM	49081	CD	GLU	Q	48	108.996	77.505	-43.586	1.00	131.68	QS17
ATOM	49082	OE1	GLU	Q	48	109.490	78.582	-43.183	1.00	131.68	QS17
ATOM	49083	OE2	GLU	Q	48	107.800	77.388	-43.936	1.00	131.68	QS17
ATOM	49084	C	GLU	Q	48	113.254	75.727	-45.493	1.00	79.72	QS17
ATOM	49085	O	GLU	Q	48	113.009	76.171	-46.617	1.00	79.72	QS17
ATOM	49086	N	GLU	Q	49	114.498	75.546	-45.044	1.00	72.20	QS17
ATOM	49087	CA	GLU	Q	49	115.657	75.911	-45.868	1.00	72.20	QS17
ATOM	49088	CB	GLU	Q	49	115.961	74.812	-46.894	1.00	116.61	QS17
ATOM	49089	CG	GLU	Q	49	116.745	73.631	-46.328	1.00	116.61	QS17
ATOM	49090	CD	GLU	Q	49	118.230	73.930	-46.158	1.00	116.61	QS17
ATOM	49091	OE1	GLU	Q	49	118.573	74.974	-45.556	1.00	116.61	QS17
ATOM	49092	OE2	GLU	Q	49	119.057	73.115	-46.625	1.00	116.61	QS17
ATOM	49093	C	GLU	Q	49	115.290	77.206	-46.576	1.00	72.20	QS17
ATOM	49094	O	GLU	Q	49	115.589	77.408	-47.750	1.00	72.20	QS17
ATOM	49095	N	LYS	Q	50	114.608	78.063	-45.826	1.00	64.70	QS17
ATOM	49096	CA	LYS	Q	50	114.127	79.345	-46.298	1.00	64.70	QS17
ATOM	49097	CB	LYS	Q	50	113.032	79.843	-45.346	1.00	108.04	QS17
ATOM	49098	CG	LYS	Q	50	112.329	81.114	-45.773	1.00	108.04	QS17
ATOM	49099	CD	LYS	Q	50	111.102	81.372	-44.907	1.00	108.04	QS17
ATOM	49100	CE	LYS	Q	50	110.266	82.518	-45.470	1.00	108.04	QS17
ATOM	49101	NZ	LYS	Q	50	108.977	82.706	-44.744	1.00	108.04	QS17
ATOM	49102	C	LYS	Q	50	115.255	80.369	-46.393	1.00	64.70	QS17



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ATOM	49103	O	LYS	Q	50	115.779	80.633	-47.481	1.00	64.70	QS17
ATOM	49104	N	TYR	Q	51	115.626	80.934	-45.248	1.00	70.59	QS17
ATOM	49105	CA	TYR	Q	51	116.681	81.944	-45.165	1.00	70.59	QS17
ATOM	49106	CB	TYR	Q	51	117.035	82.167	-43.697	1.00	86.17	QS17
ATOM	49107	CG	TYR	Q	51	115.805	82.361	-42.839	1.00	86.17	QS17
ATOM	49108	CD1	TYR	Q	51	115.126	81.268	-42.309	1.00	86.17	QS17
ATOM	49109	CE1	TYR	Q	51	113.957	81.436	-41.569	1.00	86.17	QS17
ATOM	49110	CD2	TYR	Q	51	115.286	83.635	-42.608	1.00	86.17	QS17
ATOM	49111	CE2	TYR	Q	51	114.116	83.819	-41.871	1.00	86.17	QS17
ATOM	49112	CZ	TYR	Q	51	113.454	82.714	-41.351	1.00	86.17	QS17
ATOM	49113	OH	TYR	Q	51	112.298	82.884	-40.607	1.00	86.17	QS17
ATOM	49114	C	TYR	Q	51	117.934	81.616	-45.984	1.00	70.59	QS17
ATOM	49115	O	TYR	Q	51	118.521	80.540	-45.845	1.00	70.59	QS17
ATOM	49116	N	LYS	Q	52	118.328	82.558	-46.841	1.00	63.35	QS17
ATOM	49117	CA	LYS	Q	52	119.492	82.397	-47.713	1.00	63.35	QS17
ATOM	49118	CB	LYS	Q	52	119.115	82.759	-49.152	1.00	102.43	QS17
ATOM	49119	CG	LYS	Q	52	117.939	81.969	-49.695	1.00	102.43	QS17
ATOM	49120	CD	LYS	Q	52	117.633	82.343	-51.139	1.00	102.43	QS17
ATOM	49121	CE	LYS	Q	52	116.462	81.524	-51.688	1.00	102.43	QS17
ATOM	49122	NZ	LYS	Q	52	116.191	81.779	-53.139	1.00	102.43	QS17
ATOM	49123	C	LYS	Q	52	120.682	83.247	-47.267	1.00	63.35	QS17
ATOM	49124	O	LYS	Q	52	120.517	84.288	-46.633	1.00	63.35	QS17
ATOM	49125	N	LEU	Q	53	121.881	82.792	-47.613	1.00	80.57	QS17
ATOM	49126	CA	LEU	Q	53	123.123	83.476	-47.253	1.00	80.57	QS17
ATOM	49127	CB	LEU	Q	53	124.301	82.765	-47.928	1.00	44.68	QS17
ATOM	49128	CG	LEU	Q	53	125.685	83.408	-47.992	1.00	44.68	QS17
ATOM	49129	CD1	LEU	Q	53	125.883	84.369	-46.846	1.00	44.68	QS17
ATOM	49130	CD2	LEU	Q	53	126.740	82.303	-47.964	1.00	44.68	QS17
ATOM	49131	C	LEU	Q	53	123.147	84.965	-47.588	1.00	80.57	QS17
ATOM	49132	O	LEU	Q	53	123.186	85.344	-48.758	1.00	80.57	QS17
ATOM	49133	N	GLY	Q	54	123.145	85.800	-46.551	1.00	46.54	QS17
ATOM	49134	CA	GLY	Q	54	123.167	87.240	-46.748	1.00	46.54	QS17
ATOM	49135	C	GLY	Q	54	122.076	88.010	-46.011	1.00	46.54	QS17
ATOM	49136	O	GLY	Q	54	122.149	89.243	-45.910	1.00	46.54	QS17
ATOM	49137	N	ASP	Q	55	121.072	87.299	-45.487	1.00	69.26	QS17
ATOM	49138	CA	ASP	Q	55	119.964	87.937	-44.766	1.00	69.26	QS17
ATOM	49139	CB	ASP	Q	55	118.730	87.028	-44.697	1.00	79.68	QS17
ATOM	49140	CG	ASP	Q	55	118.416	86.358	-46.009	1.00	79.68	QS17
ATOM	49141	OD1	ASP	Q	55	118.567	87.017	-47.057	1.00	79.68	QS17
ATOM	49142	OD2	ASP	Q	55	118.004	85.176	-45.988	1.00	79.68	QS17
ATOM	49143	C	ASP	Q	55	120.308	88.293	-43.334	1.00	69.26	QS17
ATOM	49144	O	ASP	Q	55	121.210	87.708	-42.732	1.00	69.26	QS17
ATOM	49145	N	VAL	Q	56	119.583	89.266	-42.796	1.00	58.15	QS17
ATOM	49146	CA	VAL	Q	56	119.752	89.657	-41.404	1.00	58.15	QS17
ATOM	49147	CB	VAL	Q	56	119.532	91.156	-41.150	1.00	41.17	QS17
ATOM	49148	CG1	VAL	Q	56	119.234	91.381	-39.676	1.00	41.17	QS17
ATOM	49149	CG2	VAL	Q	56	120.765	91.937	-41.531	1.00	41.17	QS17
ATOM	49150	C	VAL	Q	56	118.585	88.946	-40.785	1.00	58.15	QS17
ATOM	49151	O	VAL	Q	56	117.511	88.928	-41.373	1.00	58.15	QS17
ATOM	49152	N	VAL	Q	57	118.774	88.368	-39.610	1.00	56.92	QS17
ATOM	49153	CA	VAL	Q	57	117.676	87.658	-38.980	1.00	56.92	QS17
ATOM	49154	CB	VAL	Q	57	117.705	86.154	-39.346	1.00	28.99	QS17
ATOM	49155	CG1	VAL	Q	57	117.491	85.962	-40.817	1.00	28.99	QS17
ATOM	49156	CG2	VAL	Q	57	119.043	85.563	-38.969	1.00	28.99	QS17
ATOM	49157	C	VAL	Q	57	117.691	87.761	-37.465	1.00	56.92	QS17
ATOM	49158	O	VAL	Q	57	118.687	88.165	-36.852	1.00	56.92	QS17
ATOM	49159	N	GLU	Q	58	116.557	87.416	-36.870	1.00	49.19	QS17
ATOM	49160	CA	GLU	Q	58	116.447	87.383	-35.434	1.00	49.19	QS17
ATOM	49161	CB	GLU	Q	58	115.095	87.911	-34.972	1.00	86.19	QS17
ATOM	49162	CG	GLU	Q	58	114.868	89.366	-35.296	1.00	86.19	QS17
ATOM	49163	CD	GLU	Q	58	113.816	90.002	-34.396	1.00	86.19	QS17
ATOM	49164	OE1	GLU	Q	58	112.678	89.477	-34.331	1.00	86.19	QS17
ATOM	49165	OE2	GLU	Q	58	114.126	91.030	-33.752	1.00	86.19	QS17
ATOM	49166	C	GLU	Q	58	116.569	85.893	-35.114	1.00	49.19	QS17
ATOM	49167	O	GLU	Q	58	116.070	85.032	-35.844	1.00	49.19	QS17
ATOM	49168	N	ILE	Q	59	117.276	85.587	-34.044	1.00	38.74	QS17
ATOM	49169	CA	ILE	Q	59	117.448	84.216	-33.623	1.00	38.74	QS17
ATOM	49170	CB	ILE	Q	59	118.924	83.930	-33.326	1.00	57.93	QS17
ATOM	49171	CG2	ILE	Q	59	119.091	82.551	-32.831	1.00	57.93	QS17
ATOM	49172	CG1	ILE	Q	59	119.731	84.033	-34.602	1.00	57.93	QS17
ATOM	49173	CD1	ILE	Q	59	119.194	83.134	-35.685	1.00	57.93	QS17
ATOM	49174	C	ILE	Q	59	116.643	84.155	-32.341	1.00	38.74	QS17
ATOM	49175	O	ILE	Q	59	116.481	85.180	-31.658	1.00	38.74	QS17
ATOM	49176	N	ILE	Q	60	116.124	82.978	-32.011	1.00	36.80	QS17
ATOM	49177	CA	ILE	Q	60	115.347	82.850	-30.785	1.00	36.80	QS17
ATOM	49178	CB	ILE	Q	60	113.814	82.673	-31.126	1.00	42.49	QS17
ATOM	49179	CG2	ILE	Q	60	113.441	81.205	-31.162	1.00	42.49	QS17



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ATOM	49180	CG1	ILE	Q	60	112.936	83.431	-30.112	1.00	42.49	QS17
ATOM	49181	CD1	ILE	Q	60	113.020	82.943	-28.671	1.00	42.49	QS17
ATOM	49182	C	ILE	Q	60	115.874	81.683	-29.939	1.00	36.80	QS17
ATOM	49183	O	ILE	Q	60	116.150	80.594	-30.472	1.00	36.80	QS17
ATOM	49184	N	GLU	Q	61	116.047	81.925	-28.635	1.00	46.21	QS17
ATOM	49185	CA	GLU	Q	61	116.517	80.882	-27.716	1.00	46.21	QS17
ATOM	49186	CB	GLU	Q	61	116.584	81.402	-26.283	1.00	48.21	QS17
ATOM	49187	CG	GLU	Q	61	117.066	80.368	-25.274	1.00	48.21	QS17
ATOM	49188	CD	GLU	Q	61	117.102	80.895	-23.820	1.00	48.21	QS17
ATOM	49189	OE1	GLU	Q	61	117.553	80.138	-22.935	1.00	48.21	QS17
ATOM	49190	OE2	GLU	Q	61	116.684	82.051	-23.548	1.00	48.21	QS17
ATOM	49191	C	GLU	Q	61	115.489	79.770	-27.800	1.00	46.21	QS17
ATOM	49192	O	GLU	Q	61	114.311	79.986	-27.502	1.00	46.21	QS17
ATOM	49193	N	SER	Q	62	115.918	78.582	-28.214	1.00	47.94	QS17
ATOM	49194	CA	SER	Q	62	114.979	77.471	-28.356	1.00	47.94	QS17
ATOM	49195	CB	SER	Q	62	114.700	77.217	-29.845	1.00	71.12	QS17
ATOM	49196	OG	SER	Q	62	114.084	78.341	-30.444	1.00	71.12	QS17
ATOM	49197	C	SER	Q	62	115.405	76.161	-27.705	1.00	47.94	QS17
ATOM	49198	O	SER	Q	62	116.467	76.060	-27.085	1.00	47.94	QS17
ATOM	49199	N	ARG	Q	63	114.554	75.155	-27.859	1.00	48.22	QS17
ATOM	49200	CA	ARG	Q	63	114.831	73.841	-27.319	1.00	48.22	QS17
ATOM	49201	CB	ARG	Q	63	113.554	73.008	-27.256	1.00	56.15	QS17
ATOM	49202	CG	ARG	Q	63	113.772	71.584	-26.787	1.00	56.15	QS17
ATOM	49203	CD	ARG	Q	63	113.245	70.632	-27.827	1.00	56.15	QS17
ATOM	49204	NE	ARG	Q	63	111.843	70.919	-28.106	1.00	56.15	QS17
ATOM	49205	CZ	ARG	Q	63	111.168	70.404	-29.125	1.00	56.15	QS17
ATOM	49206	NH1	ARG	Q	63	111.764	69.574	-29.972	1.00	56.15	QS17
ATOM	49207	NH2	ARG	Q	63	109.899	70.722	-29.292	1.00	56.15	QS17
ATOM	49208	C	ARG	Q	63	115.862	73.156	-28.212	1.00	48.22	QS17
ATOM	49209	O	ARG	Q	63	115.807	73.239	-29.449	1.00	48.22	QS17
ATOM	49210	N	PRO	Q	64	116.823	72.468	-27.586	1.00	39.52	QS17
ATOM	49211	CD	PRO	Q	64	116.913	72.250	-26.127	1.00	22.68	QS17
ATOM	49212	CA	PRO	Q	64	117.892	71.755	-28.283	1.00	39.52	QS17
ATOM	49213	CB	PRO	Q	64	118.411	70.819	-27.206	1.00	22.68	QS17
ATOM	49214	CG	PRO	Q	64	118.303	71.685	-25.970	1.00	22.68	QS17
ATOM	49215	C	PRO	Q	64	117.437	71.028	-29.540	1.00	39.52	QS17
ATOM	49216	O	PRO	Q	64	116.395	70.381	-29.558	1.00	39.52	QS17
ATOM	49217	N	ILE	Q	65	118.232	71.144	-30.595	1.00	57.35	QS17
ATOM	49218	CA	ILE	Q	65	117.910	70.498	-31.854	1.00	57.35	QS17
ATOM	49219	CB	ILE	Q	65	117.590	71.534	-32.916	1.00	39.21	QS17
ATOM	49220	CG2	ILE	Q	65	117.065	70.851	-34.176	1.00	39.21	QS17
ATOM	49221	CG1	ILE	Q	65	116.571	72.518	-32.341	1.00	39.21	QS17
ATOM	49222	CD1	ILE	Q	65	116.070	73.531	-33.333	1.00	39.21	QS17
ATOM	49223	C	ILE	Q	65	119.071	69.641	-32.319	1.00	57.35	QS17
ATOM	49224	O	ILE	Q	65	118.906	68.763	-33.172	1.00	57.35	QS17
ATOM	49225	N	SER	Q	66	120.244	69.907	-31.750	1.00	58.24	QS17
ATOM	49226	CA	SER	Q	66	121.453	69.153	-32.060	1.00	58.24	QS17
ATOM	49227	CB	SER	Q	66	121.821	69.271	-33.546	1.00	50.67	QS17
ATOM	49228	OG	SER	Q	66	122.252	70.574	-33.891	1.00	50.67	QS17
ATOM	49229	C	SER	Q	66	122.604	69.654	-31.210	1.00	58.24	QS17
ATOM	49230	O	SER	Q	66	122.604	70.799	-30.757	1.00	58.24	QS17
ATOM	49231	N	LYS	Q	67	123.577	68.787	-30.973	1.00	57.10	QS17
ATOM	49232	CA	LYS	Q	67	124.735	69.177	-30.187	1.00	57.10	QS17
ATOM	49233	CB	LYS	Q	67	125.844	68.151	-30.326	1.00	51.41	QS17
ATOM	49234	CG	LYS	Q	67	127.208	68.672	-29.946	1.00	51.41	QS17
ATOM	49235	CD	LYS	Q	67	128.260	67.721	-30.436	1.00	51.41	QS17
ATOM	49236	CE	LYS	Q	67	129.627	68.096	-29.928	1.00	51.41	QS17
ATOM	49237	NZ	LYS	Q	67	130.573	66.983	-30.234	1.00	51.41	QS17
ATOM	49238	C	LYS	Q	67	125.218	70.447	-30.809	1.00	57.10	QS17
ATOM	49239	O	LYS	Q	67	125.592	70.437	-31.964	1.00	57.10	QS17
ATOM	49240	N	ARG	Q	68	125.228	71.542	-30.072	1.00	50.44	QS17
ATOM	49241	CA	ARG	Q	68	125.700	72.789	-30.666	1.00	50.44	QS17
ATOM	49242	CB	ARG	Q	68	127.049	72.567	-31.379	1.00	70.86	QS17
ATOM	49243	CG	ARG	Q	68	127.570	73.763	-32.155	1.00	70.86	QS17
ATOM	49244	CD	ARG	Q	68	129.029	74.016	-31.845	1.00	70.86	QS17
ATOM	49245	NE	ARG	Q	68	129.378	75.404	-32.116	1.00	70.86	QS17
ATOM	49246	CZ	ARG	Q	68	129.294	75.969	-33.316	1.00	70.86	QS17
ATOM	49247	NH1	ARG	Q	68	128.872	75.257	-34.355	1.00	70.86	QS17
ATOM	49248	NH2	ARG	Q	68	129.628	77.246	-33.479	1.00	70.86	QS17
ATOM	49249	C	ARG	Q	68	124.676	73.290	-31.666	1.00	50.44	QS17
ATOM	49250	O	ARG	Q	68	124.913	73.230	-32.870	1.00	50.44	QS17
ATOM	49251	N	LYS	Q	69	123.546	73.775	-31.151	1.00	42.72	QS17
ATOM	49252	CA	LYS	Q	69	122.438	74.293	-31.956	1.00	42.72	QS17
ATOM	49253	CB	LYS	Q	69	122.121	73.357	-33.129	1.00	29.95	QS17
ATOM	49254	CG	LYS	Q	69	121.084	73.863	-34.108	1.00	29.95	QS17
ATOM	49255	CD	LYS	Q	69	121.007	72.935	-35.322	1.00	29.95	QS17
ATOM	49256	CE	LYS	Q	69	119.954	73.415	-36.334	1.00	29.95	QS17



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ATOM	49257	NZ	LYS	Q	69	119.574	72.401	-37.385	1.00	29.95	QS17
ATOM	49258	C	LYS	Q	69	121.232	74.367	-31.037	1.00	42.72	QS17
ATOM	49259	O	LYS	Q	69	120.535	73.372	-30.824	1.00	42.72	QS17
ATOM	49260	N	ARG	Q	70	121.010	75.551	-30.482	1.00	49.50	QS17
ATOM	49261	CA	ARG	Q	70	119.899	75.778	-29.578	1.00	49.50	QS17
ATOM	49262	CB	ARG	Q	70	120.390	75.851	-28.129	1.00	45.06	QS17
ATOM	49263	CG	ARG	Q	70	120.741	74.513	-27.506	1.00	45.06	QS17
ATOM	49264	CD	ARG	Q	70	122.127	74.051	-27.867	1.00	45.06	QS17
ATOM	49265	NE	ARG	Q	70	122.563	72.953	-26.996	1.00	45.06	QS17
ATOM	49266	CZ	ARG	Q	70	122.445	71.653	-27.275	1.00	45.06	QS17
ATOM	49267	NH1	ARG	Q	70	121.903	71.249	-28.417	1.00	45.06	QS17
ATOM	49268	NH2	ARG	Q	70	122.876	70.752	-26.404	1.00	45.06	QS17
ATOM	49269	C	ARG	Q	70	119.176	77.066	-29.941	1.00	49.50	QS17
ATOM	49270	O	ARG	Q	70	118.613	77.743	-29.077	1.00	49.50	QS17
ATOM	49271	N	PHE	Q	71	119.176	77.400	-31.224	1.00	48.96	QS17
ATOM	49272	CA	PHE	Q	71	118.513	78.617	-31.668	1.00	48.96	QS17
ATOM	49273	CB	PHE	Q	71	119.556	79.728	-31.827	1.00	41.39	QS17
ATOM	49274	CG	PHE	Q	71	119.952	80.402	-30.525	1.00	41.39	QS17
ATOM	49275	CD1	PHE	Q	71	119.149	81.392	-29.962	1.00	41.39	QS17
ATOM	49276	CD2	PHE	Q	71	121.132	80.048	-29.869	1.00	41.39	QS17
ATOM	49277	CE1	PHE	Q	71	119.510	82.024	-28.769	1.00	41.39	QS17
ATOM	49278	CE2	PHE	Q	71	121.503	80.674	-28.668	1.00	41.39	QS17
ATOM	49279	CZ	PHE	Q	71	120.689	81.664	-28.120	1.00	41.39	QS17
ATOM	49280	NE	PHE	Q	71	117.732	78.437	-32.972	1.00	48.96	QS17
ATOM	49281	O	PHE	Q	71	118.191	77.786	-33.920	1.00	48.96	QS17
ATOM	49282	N	ARG	Q	72	116.539	79.011	-33.016	1.00	41.88	QS17
ATOM	49283	CA	ARG	Q	72	115.729	78.913	-34.218	1.00	41.88	QS17
ATOM	49284	CB	ARG	Q	72	114.326	78.409	-33.881	1.00	41.20	QS17
ATOM	49285	CG	ARG	Q	72	114.261	76.956	-33.407	1.00	41.20	QS17
ATOM	49286	CD	ARG	Q	72	112.823	76.559	-33.087	1.00	41.20	QS17
ATOM	49287	NE	ARG	Q	72	112.295	77.419	-32.035	1.00	41.20	QS17
ATOM	49288	CZ	ARG	Q	72	111.004	77.568	-31.752	1.00	41.20	QS17
ATOM	49289	NH1	ARG	Q	72	110.083	76.904	-32.450	1.00	41.20	QS17
ATOM	49290	NH2	ARG	Q	72	110.643	78.394	-30.773	1.00	41.20	QS17
ATOM	49291	C	ARG	Q	72	115.640	80.282	-34.873	1.00	41.88	QS17
ATOM	49292	O	ARG	Q	72	115.754	81.311	-34.186	1.00	41.88	QS17
ATOM	49293	N	VAL	Q	73	115.452	80.287	-36.195	1.00	52.36	QS17
ATOM	49294	CA	VAL	Q	73	115.346	81.529	-36.952	1.00	52.36	QS17
ATOM	49295	CB	VAL	Q	73	115.584	81.322	-38.440	1.00	197.98	QS17
ATOM	49296	CG1	VAL	Q	73	115.815	82.646	-39.099	1.00	30.97	QS17
ATOM	49297	CG2	VAL	Q	73	116.758	80.448	-38.651	1.00	30.97	QS17
ATOM	49298	C	VAL	Q	73	113.947	82.087	-36.785	1.00	52.36	QS17
ATOM	49299	O	VAL	Q	73	113.020	81.695	-37.493	1.00	52.36	QS17
ATOM	49300	N	LEU	Q	74	113.812	83.018	-35.848	1.00	49.79	QS17
ATOM	49301	CA	LEU	Q	74	112.537	83.633	-35.544	1.00	49.79	QS17
ATOM	49302	CB	LEU	Q	74	112.709	84.654	-34.437	1.00	34.59	QS17
ATOM	49303	CG	LEU	Q	74	111.428	84.917	-33.664	1.00	34.59	QS17
ATOM	49304	CD1	LEU	Q	74	111.710	85.823	-32.471	1.00	34.59	QS17
ATOM	49305	CD2	LEU	Q	74	110.427	85.539	-34.606	1.00	34.59	QS17
ATOM	49306	C	LEU	Q	74	111.933	84.296	-36.751	1.00	49.79	QS17
ATOM	49307	O	LEU	Q	74	110.874	83.881	-37.207	1.00	49.79	QS17
ATOM	49308	N	ARG	Q	75	112.589	85.336	-37.261	1.00	63.17	QS17
ATOM	49309	CA	ARG	Q	75	112.080	86.036	-38.439	1.00	63.17	QS17
ATOM	49310	CB	ARG	Q	75	111.016	87.056	-38.041	1.00	66.28	QS17
ATOM	49311	CG	ARG	Q	75	111.564	88.278	-37.356	1.00	66.28	QS17
ATOM	49312	CD	ARG	Q	75	110.435	89.192	-36.931	1.00	66.28	QS17
ATOM	49313	NE	ARG	Q	75	110.919	90.402	-36.267	1.00	66.28	QS17
ATOM	49314	CZ	ARG	Q	75	111.586	91.382	-36.875	1.00	66.28	QS17
ATOM	49315	NH1	ARG	Q	75	111.852	91.300	-38.177	1.00	66.28	QS17
ATOM	49316	NH2	ARG	Q	75	111.985	92.446	-36.183	1.00	66.28	QS17
ATOM	49317	C	ARG	Q	75	113.169	86.755	-39.212	1.00	63.17	QS17
ATOM	49318	O	ARG	Q	75	114.295	86.899	-38.736	1.00	63.17	QS17
ATOM	49319	N	LEU	Q	76	112.819	87.208	-40.410	1.00	71.09	QS17
ATOM	49320	CA	LEU	Q	76	113.754	87.932	-41.261	1.00	71.09	QS17
ATOM	49321	CB	LEU	Q	76	113.421	87.677	-42.732	1.00	45.35	QS17
ATOM	49322	CG	LEU	Q	76	114.208	88.433	-43.806	1.00	45.35	QS17
ATOM	49323	CD1	LEU	Q	76	114.099	87.705	-45.153	1.00	45.35	QS17
ATOM	49324	CD2	LEU	Q	76	113.672	89.863	-43.911	1.00	45.35	QS17
ATOM	49325	C	LEU	Q	76	113.660	89.420	-40.935	1.00	71.09	QS17
ATOM	49326	O	LEU	Q	76	112.585	89.919	-40.605	1.00	71.09	QS17
ATOM	49327	N	VAL	Q	77	114.785	90.126	-41.019	1.00	61.89	QS17
ATOM	49328	CA	VAL	Q	77	114.814	91.552	-40.713	1.00	61.89	QS17
ATOM	49329	CB	VAL	Q	77	115.948	91.886	-39.723	1.00	45.90	QS17
ATOM	49330	CG1	VAL	Q	77	115.979	93.375	-39.442	1.00	45.90	QS17
ATOM	49331	CG2	VAL	Q	77	115.728	91.134	-38.421	1.00	45.90	QS17
ATOM	49332	C	VAL	Q	77	114.982	92.382	-41.974	1.00	61.89	QS17
ATOM	49333	O	VAL	Q	77	114.258	93.349	-42.183	1.00	61.89	QS17



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ATOM	49334	N	GLU	Q	78	115.955	92.017	-42.798	1.00	64.08	QS17
ATOM	49335	CA	GLU	Q	78	116.197	92.698	-44.065	1.00	64.08	QS17
ATOM	49336	CB	GLU	Q	78	116.941	94.020	-43.870	1.00	90.11	QS17
ATOM	49337	CG	GLU	Q	78	118.320	93.908	-43.270	1.00	90.11	QS17
ATOM	49338	CD	GLU	Q	78	119.085	95.226	-43.334	1.00	90.11	QS17
ATOM	49339	OE1	GLU	Q	78	119.444	95.659	-44.454	1.00	90.11	QS17
ATOM	49340	OE2	GLU	Q	78	119.320	95.832	-42.265	1.00	90.11	QS17
ATOM	49341	C	GLU	Q	78	117.032	91.724	-44.865	1.00	64.08	QS17
ATOM	49342	O	GLU	Q	78	117.991	91.149	-44.342	1.00	64.08	QS17
ATOM	49343	N	SER	Q	79	116.657	91.526	-46.125	1.00	60.18	QS17
ATOM	49344	CA	SER	Q	79	117.344	90.566	-46.990	1.00	60.18	QS17
ATOM	49345	CB	SER	Q	79	116.363	90.014	-48.035	1.00	90.77	QS17
ATOM	49346	OG	SER	Q	79	116.931	88.950	-48.780	1.00	90.77	QS17
ATOM	49347	C	SER	Q	79	118.583	91.096	-47.692	1.00	60.18	QS17
ATOM	49348	O	SER	Q	79	118.857	92.296	-47.680	1.00	60.18	QS17
ATOM	49349	N	GLY	Q	80	119.323	90.166	-48.290	1.00	107.00	QS17
ATOM	49350	CA	GLY	Q	80	120.531	90.478	-49.028	1.00	107.00	QS17
ATOM	49351	C	GLY	Q	80	121.432	91.616	-48.576	1.00	107.00	QS17
ATOM	49352	O	GLY	Q	80	121.024	92.776	-48.512	1.00	107.00	QS17
ATOM	49353	N	ARG	Q	81	122.674	91.267	-48.262	1.00	68.15	QS17
ATOM	49354	CA	ARG	Q	81	123.687	92.235	-47.865	1.00	68.15	QS17
ATOM	49355	CB	ARG	Q	81	123.212	93.107	-46.713	1.00	63.05	QS17
ATOM	49356	CG	ARG	Q	81	122.889	92.399	-45.457	1.00	63.05	QS17
ATOM	49357	CD	ARG	Q	81	122.648	93.477	-44.453	1.00	63.05	QS17
ATOM	49358	NE	ARG	Q	81	123.816	94.346	-44.352	1.00	63.05	QS17
ATOM	49359	CZ	ARG	Q	81	123.766	95.613	-43.958	1.00	63.05	QS17
ATOM	49360	NH1	ARG	Q	81	122.599	96.162	-43.637	1.00	63.05	QS17
ATOM	49361	NH2	ARG	Q	81	124.885	96.323	-43.861	1.00	63.05	QS17
ATOM	49362	C	ARG	Q	81	124.998	91.538	-47.532	1.00	68.15	QS17
ATOM	49363	O	ARG	Q	81	125.427	91.433	-46.377	1.00	68.15	QS17
ATOM	49364	N	MET	Q	82	125.613	91.073	-48.612	1.00	73.34	QS17
ATOM	49365	CA	MET	Q	82	126.877	90.368	-48.602	1.00	73.34	QS17
ATOM	49366	CB	MET	Q	82	127.184	89.872	-50.018	1.00	99.67	QS17
ATOM	49367	CG	MET	Q	82	125.992	89.232	-50.723	1.00	99.67	QS17
ATOM	49368	SD	MET	Q	82	125.247	87.909	-49.758	1.00	99.67	QS17
ATOM	49369	CE	MET	Q	82	126.571	86.653	-49.832	1.00	99.67	QS17
ATOM	49370	C	MET	Q	82	127.996	91.276	-48.115	1.00	73.34	QS17
ATOM	49371	O	MET	Q	82	129.076	90.810	-47.741	1.00	73.34	QS17
ATOM	49372	N	ASP	Q	83	127.749	92.578	-48.138	1.00	68.71	QS17
ATOM	49373	CA	ASP	Q	83	128.757	93.504	-47.662	1.00	68.71	QS17
ATOM	49374	CB	ASP	Q	83	128.170	94.920	-47.574	1.00	101.39	QS17
ATOM	49375	CG	ASP	Q	83	126.998	95.011	-46.611	1.00	101.39	QS17
ATOM	49376	OD1	ASP	Q	83	126.066	94.182	-46.714	1.00	101.39	QS17
ATOM	49377	OD2	ASP	Q	83	127.006	95.920	-45.753	1.00	101.39	QS17
ATOM	49378	C	ASP	Q	83	129.188	92.989	-46.281	1.00	68.71	QS17
ATOM	49379	O	ASP	Q	83	130.374	93.009	-45.938	1.00	68.71	QS17
ATOM	49380	N	LEU	Q	84	128.213	92.491	-45.515	1.00	61.02	QS17
ATOM	49381	CA	LEU	Q	84	128.457	91.958	-44.177	1.00	61.02	QS17
ATOM	49382	CB	LEU	Q	84	127.161	91.889	-43.390	1.00	57.70	QS17
ATOM	49383	CG	LEU	Q	84	126.917	93.230	-42.716	1.00	57.70	QS17
ATOM	49384	CD1	LEU	Q	84	125.644	93.198	-41.882	1.00	57.70	QS17
ATOM	49385	CD2	LEU	Q	84	128.138	93.537	-41.855	1.00	57.70	QS17
ATOM	49386	C	LEU	Q	84	129.099	90.594	-44.196	1.00	61.02	QS17
ATOM	49387	O	LEU	Q	84	129.919	90.277	-43.334	1.00	61.02	QS17
ATOM	49388	N	VAL	Q	85	128.709	89.783	-45.172	1.00	46.68	QS17
ATOM	49389	CA	VAL	Q	85	129.286	88.459	-45.324	1.00	46.68	QS17
ATOM	49390	CB	VAL	Q	85	128.589	87.690	-46.446	1.00	60.02	QS17
ATOM	49391	CG1	VAL	Q	85	129.328	86.407	-46.732	1.00	60.02	QS17
ATOM	49392	CG2	VAL	Q	85	127.163	87.394	-46.043	1.00	60.02	QS17
ATOM	49393	C	VAL	Q	85	130.776	88.615	-45.658	1.00	46.68	QS17
ATOM	49394	O	VAL	Q	85	131.607	87.776	-45.291	1.00	46.68	QS17
ATOM	49395	N	GLU	Q	86	131.106	89.706	-46.345	1.00	51.73	QS17
ATOM	49396	CA	GLU	Q	86	132.483	89.987	-46.715	1.00	51.73	QS17
ATOM	49397	CB	GLU	Q	86	132.549	91.256	-47.558	1.00	118.05	QS17
ATOM	49398	CG	GLU	Q	86	132.033	91.003	-48.936	1.00	118.05	QS17
ATOM	49399	CD	GLU	Q	86	132.445	89.627	-49.400	1.00	118.05	QS17
ATOM	49400	OE1	GLU	Q	86	133.665	89.393	-49.530	1.00	118.05	QS17
ATOM	49401	OE2	GLU	Q	86	131.555	88.774	-49.605	1.00	118.05	QS17
ATOM	49402	C	GLU	Q	86	133.388	90.118	-45.507	1.00	51.73	QS17
ATOM	49403	O	GLU	Q	86	134.360	89.369	-45.368	1.00	51.73	QS17
ATOM	49404	N	LYS	Q	87	133.077	91.074	-44.635	1.00	59.85	QS17
ATOM	49405	CA	LYS	Q	87	133.881	91.261	-43.434	1.00	59.85	QS17
ATOM	49406	CB	LYS	Q	87	133.134	92.104	-42.387	1.00	85.78	QS17
ATOM	49407	CG	LYS	Q	87	132.972	93.580	-42.732	1.00	85.78	QS17
ATOM	49408	CD	LYS	Q	87	132.081	94.280	-41.712	1.00	85.78	QS17
ATOM	49409	CE	LYS	Q	87	131.722	95.698	-42.157	1.00	85.78	QS17
ATOM	49410	NZ	LYS	Q	87	130.612	96.303	-41.347	1.00	85.78	QS17



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ATOM	49411	C	LYS	Q	87	134.159	89.876	-42.870	1.00	59.85	QS17
ATOM	49412	O	LYS	Q	87	135.274	89.574	-42.456	1.00	59.85	QS17
ATOM	49413	N	TYR	Q	88	133.141	89.026	-42.879	1.00	57.25	QS17
ATOM	49414	CA	TYR	Q	88	133.311	87.691	-42.360	1.00	57.25	QS17
ATOM	49415	CB	TYR	Q	88	131.971	86.991	-42.237	1.00	59.63	QS17
ATOM	49416	CG	TYR	Q	88	132.108	85.596	-41.695	1.00	59.63	QS17
ATOM	49417	CD1	TYR	Q	88	132.519	85.375	-40.380	1.00	59.63	QS17
ATOM	49418	CE1	TYR	Q	88	132.670	84.080	-39.878	1.00	59.63	QS17
ATOM	49419	CD2	TYR	Q	88	131.852	84.495	-42.500	1.00	59.63	QS17
ATOM	49420	CE2	TYR	Q	88	131.998	83.202	-42.016	1.00	59.63	QS17
ATOM	49421	CZ	TYR	Q	88	132.406	82.996	-40.705	1.00	59.63	QS17
ATOM	49422	OH	TYR	Q	88	132.534	81.707	-40.235	1.00	59.63	QS17
ATOM	49423	C	TYR	Q	88	134.237	86.863	-43.241	1.00	57.25	QS17
ATOM	49424	O	TYR	Q	88	135.319	86.470	-42.803	1.00	57.25	QS17
ATOM	49425	N	LEU	Q	89	133.826	86.605	-44.481	1.00	49.98	QS17
ATOM	49426	CA	LEU	Q	89	134.637	85.803	-45.409	1.00	49.98	QS17
ATOM	49427	CB	LEU	Q	89	134.016	85.824	-46.806	1.00	56.61	QS17
ATOM	49428	CG	LEU	Q	89	132.701	85.057	-46.911	1.00	56.61	QS17
ATOM	49429	CD1	LEU	Q	89	132.287	84.971	-48.370	1.00	56.61	QS17
ATOM	49430	CD2	LEU	Q	89	132.876	83.657	-46.322	1.00	56.61	QS17
ATOM	49431	C	LEU	Q	89	136.109	86.207	-45.508	1.00	49.98	QS17
ATOM	49432	O	LEU	Q	89	137.009	85.378	-45.364	1.00	49.98	QS17
ATOM	49433	N	ILE	Q	90	136.353	87.479	-45.771	1.00	55.47	QS17
ATOM	49434	CA	ILE	Q	90	137.718	87.951	-45.871	1.00	55.47	QS17
ATOM	49435	CB	ILE	Q	90	137.752	89.456	-46.071	1.00	46.22	QS17
ATOM	49436	CG2	ILE	Q	90	139.162	89.959	-45.902	1.00	46.22	QS17
ATOM	49437	CG1	ILE	Q	90	137.188	89.799	-47.448	1.00	46.22	QS17
ATOM	49438	CD1	ILE	Q	90	137.086	91.281	-47.696	1.00	46.22	QS17
ATOM	49439	C	ILE	Q	90	138.513	87.605	-44.617	1.00	55.47	QS17
ATOM	49440	O	ILE	Q	90	139.629	87.101	-44.717	1.00	55.47	QS17
ATOM	49441	N	ARG	Q	91	137.935	87.873	-43.442	1.00	50.92	QS17
ATOM	49442	CA	ARG	Q	91	138.604	87.596	-42.163	1.00	50.92	QS17
ATOM	49443	CB	ARG	Q	91	137.646	87.820	-40.986	1.00106.54	QS17	QS17
ATOM	49444	CG	ARG	Q	91	138.348	88.089	-39.658	1.00106.54	QS17	QS17
ATOM	49445	CD	ARG	Q	91	137.409	87.943	-38.464	1.00106.54	QS17	QS17
ATOM	49446	NE	ARG	Q	91	136.210	88.770	-38.586	1.00106.54	QS17	QS17
ATOM	49447	CZ	ARG	Q	91	135.176	88.717	-37.749	1.00106.54	QS17	QS17
ATOM	49448	NH1	ARG	Q	91	135.193	87.875	-36.719	1.00106.54	QS17	QS17
ATOM	49449	NH2	ARG	Q	91	134.115	89.496	-37.953	1.00106.54	QS17	QS17
ATOM	49450	C	ARG	Q	91	139.092	86.151	-42.168	1.00	50.92	QS17
ATOM	49451	O	ARG	Q	91	140.220	85.852	-41.766	1.00	50.92	QS17
ATOM	49452	N	ARG	Q	92	138.223	85.263	-42.638	1.00	60.47	QS17
ATOM	49453	CA	ARG	Q	92	138.534	83.846	-42.748	1.00	60.47	QS17
ATOM	49454	CB	ARG	Q	92	137.320	83.108	-43.318	1.00125.04	QS17	QS17
ATOM	49455	CG	ARG	Q	92	137.595	81.707	-43.826	1.00125.04	QS17	QS17
ATOM	49456	CD	ARG	Q	92	136.353	81.128	-44.480	1.00125.04	QS17	QS17
ATOM	49457	NE	ARG	Q	92	135.244	81.032	-43.536	1.00125.04	QS17	QS17
ATOM	49458	CZ	ARG	Q	92	134.017	80.643	-43.863	1.00125.04	QS17	QS17
ATOM	49459	NH1	ARG	Q	92	133.736	80.316	-45.116	1.00125.04	QS17	QS17
ATOM	49460	NH2	ARG	Q	92	133.073	80.574	-42.934	1.00125.04	QS17	QS17
ATOM	49461	C	ARG	Q	92	139.725	83.719	-43.696	1.00	60.47	QS17
ATOM	49462	O	ARG	Q	92	140.763	83.158	-43.349	1.00	60.47	QS17
ATOM	49463	N	GLN	Q	93	139.558	84.271	-44.892	1.00	54.20	QS17
ATOM	49464	CA	GLN	Q	93	140.581	84.252	-45.923	1.00	54.20	QS17
ATOM	49465	CB	GLN	Q	93	140.139	85.170	-47.054	1.00102.54	QS17	QS17
ATOM	49466	CG	GLN	Q	93	140.761	84.883	-48.392	1.00102.54	QS17	QS17
ATOM	49467	CD	GLN	Q	93	139.919	85.444	-49.521	1.00102.54	QS17	QS17
ATOM	49468	OE1	GLN	Q	93	138.823	84.951	-49.801	1.00102.54	QS17	QS17
ATOM	49469	NE2	GLN	Q	93	140.418	86.491	-50.167	1.00102.54	QS17	QS17
ATOM	49470	C	GLN	Q	93	141.970	84.663	-45.401	1.00	54.20	QS17
ATOM	49471	O	GLN	Q	93	142.989	84.229	-45.939	1.00	54.20	QS17
ATOM	49472	N	ASN	Q	94	142.016	85.495	-44.359	1.00	58.84	QS17
ATOM	49473	CA	ASN	Q	94	143.298	85.920	-43.793	1.00	58.84	QS17
ATOM	49474	CB	ASN	Q	94	143.141	87.147	-42.891	1.00	69.59	QS17
ATOM	49475	CG	ASN	Q	94	143.003	88.438	-43.671	1.00	69.59	QS17
ATOM	49476	OD1	ASN	Q	94	143.672	88.641	-44.686	1.00	69.59	QS17
ATOM	49477	ND2	ASN	Q	94	142.147	89.332	-43.186	1.00	69.59	QS17
ATOM	49478	C	ASN	Q	94	143.935	84.808	-42.976	1.00	58.84	QS17
ATOM	49479	O	ASN	Q	94	145.152	84.658	-42.967	1.00	58.84	QS17
ATOM	49480	N	TYR	Q	95	143.112	84.036	-42.276	1.00	69.48	QS17
ATOM	49481	CA	TYR	Q	95	143.618	82.935	-41.456	1.00	69.48	QS17
ATOM	49482	CB	TYR	Q	95	142.437	82.164	-40.836	1.00	99.02	QS17
ATOM	49483	CG	TYR	Q	95	141.698	82.960	-39.780	1.00	99.02	QS17
ATOM	49484	CD1	TYR	Q	95	141.842	84.347	-39.712	1.00	99.02	QS17
ATOM	49485	CE1	TYR	Q	95	141.211	85.099	-38.730	1.00	99.02	QS17
ATOM	49486	CD2	TYR	Q	95	140.886	82.335	-38.833	1.00	99.02	QS17
ATOM	49487	CE2	TYR	Q	95	140.241	83.082	-37.837	1.00	99.02	QS17



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ATOM	49488	CZ	TYR	Q	95	140.416	84.470	-37.794	1.00	99.02	QS17
ATOM	49489	OH	TYR	Q	95	139.834	85.249	-36.814	1.00	99.02	QS17
ATOM	49490	C	TYR	Q	95	144.471	82.014	-42.323	1.00	69.48	QS17
ATOM	49491	O	TYR	Q	95	145.505	81.494	-41.889	1.00	69.48	QS17
ATOM	49492	N	GLN	Q	96	144.022	81.849	-43.563	1.00	121.90	QS17
ATOM	49493	CA	GLN	Q	96	144.678	81.014	-44.557	1.00	121.90	QS17
ATOM	49494	CB	GLN	Q	96	143.932	81.162	-45.890	1.00	186.58	QS17
ATOM	49495	CG	GLN	Q	96	144.390	80.255	-47.018	1.00	186.58	QS17
ATOM	49496	CD	GLN	Q	96	145.543	80.840	-47.804	1.00	186.58	QS17
ATOM	49497	OE1	GLN	Q	96	145.489	81.989	-48.242	1.00	186.58	QS17
ATOM	49498	NE2	GLN	Q	96	146.593	80.048	-47.996	1.00	186.58	QS17
ATOM	49499	C	GLN	Q	96	146.142	81.410	-44.701	1.00	121.90	QS17
ATOM	49500	O	GLN	Q	96	146.875	80.834	-45.496	1.00	121.90	QS17
ATOM	49501	N	SER	Q	97	146.571	82.387	-43.912	1.00	110.71	QS17
ATOM	49502	CA	SER	Q	97	147.948	82.846	-43.966	1.00	110.71	QS17
ATOM	49503	CB	SER	Q	97	147.991	84.293	-44.441	1.00	70.84	QS17
ATOM	49504	OG	SER	Q	97	147.633	85.200	-43.413	1.00	70.84	QS17
ATOM	49505	C	SER	Q	97	148.633	82.741	-42.611	1.00	110.71	QS17
ATOM	49506	O	SER	Q	97	148.935	81.644	-42.141	1.00	110.71	QS17
ATOM	49507	N	LEU	Q	98	148.877	83.900	-42.003	1.00	77.39	QS17
ATOM	49508	CA	LEU	Q	98	149.525	84.028	-40.697	1.00	77.39	QS17
ATOM	49509	CB	LEU	Q	98	148.729	85.048	-39.857	1.00	54.56	QS17
ATOM	49510	CG	LEU	Q	98	147.191	85.129	-39.895	1.00	54.56	QS17
ATOM	49511	CD1	LEU	Q	98	146.563	84.043	-39.037	1.00	54.56	QS17
ATOM	49512	CD2	LEU	Q	98	146.750	86.497	-39.372	1.00	54.56	QS17
ATOM	49513	C	LEU	Q	98	149.805	82.749	-39.872	1.00	77.39	QS17
ATOM	49514	O	LEU	Q	98	149.143	82.500	-38.870	1.00	77.39	QS17
ATOM	49515	N	SER	Q	99	150.810	81.967	-40.279	1.00	75.19	QS17
ATOM	49516	CA	SER	Q	99	151.161	80.726	-39.574	1.00	75.19	QS17
ATOM	49517	CB	SER	Q	99	150.188	79.619	-39.985	1.00	93.35	QS17
ATOM	49518	OG	SER	Q	99	150.189	79.453	-41.392	1.00	93.35	QS17
ATOM	49519	C	SER	Q	99	152.612	80.243	-39.799	1.00	75.19	QS17
ATOM	49520	O	SER	Q	99	153.404	80.122	-38.846	1.00	75.19	QS17
ATOM	49521	N	LYS	Q	100	152.935	79.933	-41.057	1.00	197.54	QS17
ATOM	49522	CA	LYS	Q	100	154.273	79.484	-41.467	1.00	197.54	QS17
ATOM	49523	CB	LYS	Q	100	154.308	77.969	-41.737	1.00	68.38	QS17
ATOM	49524	CG	LYS	Q	100	154.431	77.082	-40.497	1.00	68.38	QS17
ATOM	49525	CD	LYS	Q	100	154.651	75.607	-40.892	1.00	68.38	QS17
ATOM	49526	CE	LYS	Q	100	154.551	74.625	-39.699	1.00	68.38	QS17
ATOM	49527	NZ	LYS	Q	100	155.624	74.714	-38.646	1.00	68.38	QS17
ATOM	49528	C	LYS	Q	100	154.668	80.219	-42.748	1.00	197.54	QS17
ATOM	49529	O	LYS	Q	100	155.813	80.137	-43.198	1.00	197.54	QS17
ATOM	49530	N	ARG	Q	101	153.704	80.935	-43.325	1.00	188.97	QS17
ATOM	49531	CA	ARG	Q	101	153.908	81.693	-44.558	1.00	188.97	QS17
ATOM	49532	CB	ARG	Q	101	153.131	81.042	-45.706	1.00	176.27	QS17
ATOM	49533	CG	ARG	Q	101	153.619	79.662	-46.123	1.00	176.27	QS17
ATOM	49534	CD	ARG	Q	101	154.892	79.736	-46.961	1.00	176.27	QS17
ATOM	49535	NE	ARG	Q	101	156.080	80.043	-46.168	1.00	176.27	QS17
ATOM	49536	CZ	ARG	Q	101	157.298	80.197	-46.679	1.00	176.27	QS17
ATOM	49537	NH1	ARG	Q	101	157.493	80.076	-47.985	1.00	176.27	QS17
ATOM	49538	NH2	ARG	Q	101	158.324	80.463	-45.882	1.00	176.27	QS17
ATOM	49539	C	ARG	Q	101	153.462	83.154	-44.424	1.00	188.97	QS17
ATOM	49540	O	ARG	Q	101	154.270	84.042	-44.142	1.00	188.97	QS17
ATOM	49541	N	GLY	Q	102	152.170	83.390	-44.640	1.00	197.98	QS17
ATOM	49542	CA	GLY	Q	102	151.623	84.734	-44.556	1.00	197.98	QS17
ATOM	49543	C	GLY	Q	102	150.642	85.018	-45.683	1.00	197.98	QS17
ATOM	49544	O	GLY	Q	102	150.638	84.305	-46.687	1.00	197.98	QS17
ATOM	49545	N	GLY	Q	103	149.816	86.054	-45.534	1.00	197.98	QS17
ATOM	49546	CA	GLY	Q	103	148.837	86.367	-46.567	1.00	197.98	QS17
ATOM	49547	C	GLY	Q	103	148.555	87.823	-46.910	1.00	197.98	QS17
ATOM	49548	O	GLY	Q	103	148.371	88.668	-46.038	1.00	197.98	QS17
ATOM	49549	N	LYS	Q	104	148.508	88.075	-48.215	1.00	197.76	QS17
ATOM	49550	CA	LYS	Q	104	148.258	89.367	-48.863	1.00	197.76	QS17
ATOM	49551	CB	LYS	Q	104	147.202	89.153	-49.949	1.00	147.92	QS17
ATOM	49552	CG	LYS	Q	104	147.514	87.958	-50.834	1.00	147.92	QS17
ATOM	49553	CD	LYS	Q	104	148.898	88.091	-51.461	1.00	147.92	QS17
ATOM	49554	CE	LYS	Q	104	149.447	86.743	-51.904	1.00	147.92	QS17
ATOM	49555	NZ	LYS	Q	104	149.719	85.839	-50.748	1.00	147.92	QS17
ATOM	49556	C	LYS	Q	104	147.909	90.642	-48.088	1.00	197.76	QS17
ATOM	49557	O	LYS	Q	104	147.908	90.685	-46.862	1.00	197.76	QS17
ATOM	49558	N	ALA	Q	105	147.625	91.690	-48.858	1.00	197.98	QS17
ATOM	49559	CA	ALA	Q	105	147.264	93.009	-48.346	1.00	197.98	QS17
ATOM	49560	CB	ALA	Q	105	148.292	93.498	-47.357	1.00	104.02	QS17
ATOM	49561	C	ALA	Q	105	147.175	93.990	-49.511	1.00	197.98	QS17
ATOM	49562	O	ALA	Q	105	148.096	94.828	-49.639	1.00	197.98	QS17
ATOM	49563	OXT	ALA	Q	105	146.197	93.907	-50.284	1.00	147.58	QS17
TER	49563		ALA	Q	105						QS17



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ATOM	49564	CB	PRO	R	16	188.482	141.151	-53.590	1.00143.35	RS18
ATOM	49565	CG	PRO	R	16	189.904	141.243	-54.135	1.00143.35	RS18
ATOM	49566	C	PRO	R	16	187.664	138.908	-54.395	1.00181.19	RS18
ATOM	49567	O	PRO	R	16	186.685	138.198	-54.149	1.00181.19	RS18
ATOM	49568	N	PRO	R	16	189.751	139.173	-53.036	1.00181.19	RS18
ATOM	49569	CD	PRO	R	16	190.716	140.262	-53.273	1.00143.35	RS18
ATOM	49570	CA	PRO	R	16	188.373	139.664	-53.269	1.00181.19	RS18
ATOM	49571	N	SER	R	17	188.169	139.071	-55.619	1.00197.98	RS18
ATOM	49572	CA	SER	R	17	187.621	138.427	-56.817	1.00197.98	RS18
ATOM	49573	CB	SER	R	17	187.132	137.009	-56.493	1.00164.24	RS18
ATOM	49574	OG	SER	R	17	186.562	136.387	-57.631	1.00164.24	RS18
ATOM	49575	C	SER	R	17	186.485	139.235	-57.443	1.00197.98	RS18
ATOM	49576	O	SER	R	17	185.549	138.671	-58.015	1.00197.98	RS18
ATOM	49577	N	ARG	R	18	186.574	140.558	-57.336	1.00197.98	RS18
ATOM	49578	CA	ARG	R	18	185.555	141.445	-57.894	1.00197.98	RS18
ATOM	49579	CB	ARG	R	18	185.120	142.479	-56.849	1.00142.92	RS18
ATOM	49580	CG	ARG	R	18	184.352	141.900	-55.668	1.00142.92	RS18
ATOM	49581	CD	ARG	R	18	182.954	141.445	-56.063	1.00142.92	RS18
ATOM	49582	NE	ARG	R	18	182.249	140.833	-54.939	1.00142.92	RS18
ATOM	49583	CZ	ARG	R	18	180.965	140.484	-54.955	1.00142.92	RS18
ATOM	49584	NH1	ARG	R	18	180.230	140.685	-56.041	1.00142.92	RS18
ATOM	49585	NH2	ARG	R	18	180.415	139.931	-53.882	1.00142.92	RS18
ATOM	49586	C	ARG	R	18	186.063	142.159	-59.144	1.00197.98	RS18
ATOM	49587	O	ARG	R	18	185.840	143.357	-59.323	1.00197.98	RS18
ATOM	49588	N	LYS	R	19	186.751	141.413	-60.002	1.00137.70	RS18
ATOM	49589	CA	LYS	R	19	187.286	141.956	-61.245	1.00137.70	RS18
ATOM	49590	CB	LYS	R	19	187.998	140.844	-62.015	1.00100.69	RS18
ATOM	49591	CG	LYS	R	19	189.023	140.107	-61.163	1.00100.69	RS18
ATOM	49592	CD	LYS	R	19	189.482	138.794	-61.783	1.00100.69	RS18
ATOM	49593	CE	LYS	R	19	190.373	138.041	-60.801	1.00100.69	RS18
ATOM	49594	NZ	LYS	R	19	190.770	136.685	-61.273	1.00100.69	RS18
ATOM	49595	C	LYS	R	19	186.133	142.523	-62.068	1.00137.70	RS18
ATOM	49596	O	LYS	R	19	186.203	143.649	-62.558	1.00137.70	RS18
ATOM	49597	N	ALA	R	20	185.071	141.730	-62.197	1.00100.58	RS18
ATOM	49598	CA	ALA	R	20	183.867	142.103	-62.936	1.00100.58	RS18
ATOM	49599	CB	ALA	R	20	184.231	142.876	-64.200	1.00 83.17	RS18
ATOM	49600	C	ALA	R	20	183.104	140.837	-63.306	1.00100.58	RS18
ATOM	49601	O	ALA	R	20	183.662	139.937	-63.936	1.00100.58	RS18
ATOM	49602	N	LYS	R	21	181.837	140.761	-62.910	1.00121.50	RS18
ATOM	49603	CA	LYS	R	21	181.020	139.589	-63.224	1.00121.50	RS18
ATOM	49604	CB	LYS	R	21	179.599	139.752	-62.664	1.00 96.44	RS18
ATOM	49605	CG	LYS	R	21	179.372	139.105	-61.298	1.00 96.44	RS18
ATOM	49606	CD	LYS	R	21	180.365	139.608	-60.270	1.00 96.44	RS18
ATOM	49607	CE	LYS	R	21	180.162	138.931	-58.933	1.00 96.44	RS18
ATOM	49608	NZ	LYS	R	21	181.240	139.333	-57.995	1.00 96.44	RS18
ATOM	49609	C	LYS	R	21	180.958	139.372	-64.734	1.00121.50	RS18
ATOM	49610	O	LYS	R	21	180.739	140.316	-65.495	1.00121.50	RS18
ATOM	49611	N	VAL	R	22	181.155	138.128	-65.161	1.00 73.39	RS18
ATOM	49612	CA	VAL	R	22	181.128	137.797	-66.578	1.00 73.39	RS18
ATOM	49613	CB	VAL	R	22	181.424	136.307	-66.797	1.00 63.53	RS18
ATOM	49614	CG1	VAL	R	22	180.983	135.878	-68.181	1.00 63.53	RS18
ATOM	49615	CG2	VAL	R	22	182.915	136.062	-66.638	1.00 63.53	RS18
ATOM	49616	C	VAL	R	22	179.791	138.151	-67.203	1.00 73.39	RS18
ATOM	49617	O	VAL	R	22	179.726	138.573	-68.358	1.00 73.39	RS18
ATOM	49618	N	LYS	R	23	178.723	137.981	-66.438	1.00 94.74	RS18
ATOM	49619	CA	LYS	R	23	177.393	138.299	-66.930	1.00 94.74	RS18
ATOM	49620	CB	LYS	R	23	176.350	137.926	-65.875	1.00 74.91	RS18
ATOM	49621	CG	LYS	R	23	174.949	138.403	-66.182	1.00 74.91	RS18
ATOM	49622	CD	LYS	R	23	174.056	138.212	-64.985	1.00 74.91	RS18
ATOM	49623	CE	LYS	R	23	172.743	138.920	-65.192	1.00 74.91	RS18
ATOM	49624	NZ	LYS	R	23	171.907	138.882	-63.967	1.00 74.91	RS18
ATOM	49625	C	LYS	R	23	177.295	139.790	-67.260	1.00 94.74	RS18
ATOM	49626	O	LYS	R	23	176.805	140.163	-68.325	1.00 94.74	RS18
ATOM	49627	N	ALA	R	24	177.769	140.631	-66.341	1.00107.27	RS18
ATOM	49628	CA	ALA	R	24	177.739	142.085	-66.507	1.00107.27	RS18
ATOM	49629	CB	ALA	R	24	178.499	142.753	-65.366	1.00116.91	RS18
ATOM	49630	C	ALA	R	24	178.321	142.525	-67.848	1.00107.27	RS18
ATOM	49631	O	ALA	R	24	177.644	143.183	-68.640	1.00107.27	RS18
ATOM	49632	N	THR	R	25	179.583	142.168	-68.086	1.00 89.41	RS18
ATOM	49633	CA	THR	R	25	180.265	142.502	-69.334	1.00 89.41	RS18
ATOM	49634	CB	THR	R	25	181.782	142.261	-69.226	1.00118.06	RS18
ATOM	49635	OG1	THR	R	25	182.305	142.998	-68.114	1.00118.06	RS18
ATOM	49636	CG2	THR	R	25	182.486	142.707	-70.504	1.00118.06	RS18
ATOM	49637	C	THR	R	25	179.712	141.587	-70.413	1.00 89.41	RS18
ATOM	49638	O	THR	R	25	180.378	140.640	-70.834	1.00 89.41	RS18
ATOM	49639	N	LEU	R	26	178.492	141.874	-70.857	1.00 88.16	RS18
ATOM	49640	CA	LEU	R	26	177.844	141.047	-71.865	1.00 88.16	RS18



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ATOM	49641	CB	LEU	R	26	177.933	139.585	-71.412	1.00	83.53	RS18
ATOM	49642	CG	LEU	R	26	177.705	138.427	-72.376	1.00	83.53	RS18
ATOM	49643	CD1	LEU	R	26	178.465	138.648	-73.674	1.00	83.53	RS18
ATOM	49644	CD2	LEU	R	26	178.167	137.154	-71.688	1.00	83.53	RS18
ATOM	49645	C	LEU	R	26	176.376	141.456	-72.078	1.00	88.16	RS18
ATOM	49646	O	LEU	R	26	175.757	142.079	-71.211	1.00	88.16	RS18
ATOM	49647	N	GLY	R	27	175.828	141.110	-73.239	1.00	79.56	RS18
ATOM	49648	CA	GLY	R	27	174.443	141.436	-73.525	1.00	79.56	RS18
ATOM	49649	C	GLY	R	27	173.570	140.215	-73.314	1.00	79.56	RS18
ATOM	49650	O	GLY	R	27	174.051	139.184	-72.853	1.00	79.56	RS18
ATOM	49651	N	GLU	R	28	172.288	140.317	-73.645	1.00	114.56	RS18
ATOM	49652	CA	GLU	R	28	171.378	139.188	-73.478	1.00	114.56	RS18
ATOM	49653	CB	GLU	R	28	169.923	139.645	-73.602	1.00	197.98	RS18
ATOM	49654	CG	GLU	R	28	169.727	141.052	-74.144	1.00	197.98	RS18
ATOM	49655	CD	GLU	R	28	170.091	141.176	-75.609	1.00	197.98	RS18
ATOM	49656	OE1	GLU	R	28	171.274	140.968	-75.954	1.00	197.98	RS18
ATOM	49657	OE2	GLU	R	28	169.188	141.482	-76.416	1.00	197.98	RS18
ATOM	49658	C	GLU	R	28	171.654	138.076	-74.482	1.00	114.56	RS18
ATOM	49659	O	GLU	R	28	171.502	138.261	-75.691	1.00	114.56	RS18
ATOM	49660	N	PHE	R	29	172.051	136.916	-73.967	1.00	78.15	RS18
ATOM	49661	CA	PHE	R	29	172.364	135.762	-74.803	1.00	78.15	RS18
ATOM	49662	CB	PHE	R	29	173.841	135.445	-74.674	1.00	82.54	RS18
ATOM	49663	CG	PHE	R	29	174.280	135.287	-73.265	1.00	82.54	RS18
ATOM	49664	CD1	PHE	R	29	174.174	134.058	-72.628	1.00	82.54	RS18
ATOM	49665	CD2	PHE	R	29	174.749	136.383	-72.551	1.00	82.54	RS18
ATOM	49666	CE1	PHE	R	29	174.531	133.924	-71.292	1.00	82.54	RS18
ATOM	49667	CE2	PHE	R	29	175.108	136.264	-71.214	1.00	82.54	RS18
ATOM	49668	CZ	PHE	R	29	175.000	135.032	-70.580	1.00	82.54	RS18
ATOM	49669	C	PHE	R	29	171.545	134.547	-74.390	1.00	78.15	RS18
ATOM	49670	O	PHE	R	29	171.044	134.476	-73.267	1.00	78.15	RS18
ATOM	49671	N	ASP	R	30	171.416	133.590	-75.300	1.00	80.95	RS18
ATOM	49672	CA	ASP	R	30	170.651	132.386	-75.019	1.00	80.95	RS18
ATOM	49673	CB	ASP	R	30	170.089	131.803	-76.320	1.00	85.63	RS18
ATOM	49674	CG	ASP	R	30	169.218	130.582	-76.083	1.00	85.63	RS18
ATOM	49675	OD1	ASP	R	30	168.421	130.612	-75.128	1.00	85.63	RS18
ATOM	49676	OD2	ASP	R	30	169.318	129.599	-76.850	1.00	85.63	RS18
ATOM	49677	C	ASP	R	30	171.511	131.351	-74.301	1.00	80.95	RS18
ATOM	49678	O	ASP	R	30	172.332	130.669	-74.922	1.00	80.95	RS18
ATOM	49679	N	LEU	R	31	171.323	131.247	-72.987	1.00	52.96	RS18
ATOM	49680	CA	LEU	R	31	172.071	130.298	-72.177	1.00	52.96	RS18
ATOM	49681	CB	LEU	R	31	171.627	130.395	-70.726	1.00	67.10	RS18
ATOM	49682	CG	LEU	R	31	172.375	131.423	-69.893	1.00	67.10	RS18
ATOM	49683	CD1	LEU	R	31	171.829	131.433	-68.477	1.00	67.10	RS18
ATOM	49684	CD2	LEU	R	31	173.846	131.064	-69.878	1.00	67.10	RS18
ATOM	49685	C	LEU	R	31	171.904	128.861	-72.657	1.00	52.96	RS18
ATOM	49686	O	LEU	R	31	172.733	127.993	-72.370	1.00	52.96	RS18
ATOM	49687	N	ARG	R	32	170.829	128.617	-73.397	1.00	63.51	RS18
ATOM	49688	CA	ARG	R	32	170.527	127.285	-73.908	1.00	63.51	RS18
ATOM	49689	CB	ARG	R	32	169.033	127.196	-74.209	1.00	82.74	RS18
ATOM	49690	CG	ARG	R	32	168.497	125.795	-74.343	1.00	82.74	RS18
ATOM	49691	CD	ARG	R	32	167.179	125.664	-73.582	1.00	82.74	RS18
ATOM	49692	NE	ARG	R	32	167.374	125.752	-72.133	1.00	82.74	RS18
ATOM	49693	CZ	ARG	R	32	166.390	125.836	-71.241	1.00	82.74	RS18
ATOM	49694	NH1	ARG	R	32	165.125	125.847	-71.639	1.00	82.74	RS18
ATOM	49695	NH2	ARG	R	32	166.675	125.902	-69.947	1.00	82.74	RS18
ATOM	49696	C	ARG	R	32	171.329	126.943	-75.162	1.00	63.51	RS18
ATOM	49697	O	ARG	R	32	171.423	125.777	-75.546	1.00	63.51	RS18
ATOM	49698	N	ASP	R	33	171.921	127.960	-75.784	1.00	85.35	RS18
ATOM	49699	CA	ASP	R	33	172.691	127.773	-77.012	1.00	85.35	RS18
ATOM	49700	CB	ASP	R	33	172.857	129.108	-77.736	1.00	126.22	RS18
ATOM	49701	CG	ASP	R	33	173.648	128.975	-79.019	1.00	126.22	RS18
ATOM	49702	OD1	ASP	R	33	173.501	127.939	-79.703	1.00	126.22	RS18
ATOM	49703	OD2	ASP	R	33	174.407	129.910	-79.350	1.00	126.22	RS18
ATOM	49704	C	ASP	R	33	174.056	127.129	-76.829	1.00	85.35	RS18
ATOM	49705	O	ASP	R	33	175.017	127.785	-76.411	1.00	85.35	RS18
ATOM	49706	N	TYR	R	34	174.137	125.847	-77.175	1.00	69.11	RS18
ATOM	49707	CA	TYR	R	34	175.376	125.102	-77.042	1.00	69.11	RS18
ATOM	49708	CB	TYR	R	34	175.080	123.616	-76.865	1.00	79.06	RS18
ATOM	49709	CG	TYR	R	34	174.261	123.004	-77.976	1.00	79.06	RS18
ATOM	49710	CD1	TYR	R	34	174.673	123.078	-79.305	1.00	79.06	RS18
ATOM	49711	CE1	TYR	R	34	173.935	122.486	-80.326	1.00	79.06	RS18
ATOM	49712	CD2	TYR	R	34	173.085	122.318	-77.692	1.00	79.06	RS18
ATOM	49713	CE2	TYR	R	34	172.336	121.717	-78.700	1.00	79.06	RS18
ATOM	49714	CZ	TYR	R	34	172.763	121.804	-80.016	1.00	79.06	RS18
ATOM	49715	OH	TYR	R	34	172.008	121.214	-81.013	1.00	79.06	RS18
ATOM	49716	C	TYR	R	34	176.304	125.278	-78.226	1.00	69.11	RS18
ATOM	49717	O	TYR	R	34	176.979	124.333	-78.623	1.00	69.11	RS18



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ATOM	49718	N	ARG	R	35	176.346	126.474	-78.797	1.00	79.90	RS18
ATOM	49719	CA	ARG	R	35	177.216	126.702	-79.940	1.00	79.90	RS18
ATOM	49720	CB	ARG	R	35	176.479	126.363	-81.234	1.00	80.18	RS18
ATOM	49721	CG	ARG	R	35	176.280	124.880	-81.450	1.00	80.18	RS18
ATOM	49722	CD	ARG	R	35	175.736	124.610	-82.832	1.00	80.18	RS18
ATOM	49723	NE	ARG	R	35	174.416	125.201	-83.010	1.00	80.18	RS18
ATOM	49724	CZ	ARG	R	35	173.832	125.391	-84.189	1.00	80.18	RS18
ATOM	49725	NH1	ARG	R	35	174.454	125.042	-85.308	1.00	80.18	RS18
ATOM	49726	NH2	ARG	R	35	172.618	125.921	-84.249	1.00	80.18	RS18
ATOM	49727	C	ARG	R	35	177.789	128.108	-80.036	1.00	79.90	RS18
ATOM	49728	O	ARG	R	35	178.685	128.362	-80.844	1.00	79.90	RS18
ATOM	49729	N	ASN	R	36	177.282	129.021	-79.214	1.00	61.60	RS18
ATOM	49730	CA	ASN	R	36	177.756	130.401	-79.225	1.00	61.60	RS18
ATOM	49731	CB	ASN	R	36	176.777	131.299	-78.461	1.00	95.98	RS18
ATOM	49732	CG	ASN	R	36	177.083	132.772	-78.628	1.00	95.98	RS18
ATOM	49733	OD1	ASN	R	36	176.397	133.632	-78.069	1.00	95.98	RS18
ATOM	49734	ND2	ASN	R	36	178.117	133.072	-79.401	1.00	95.98	RS18
ATOM	49735	C	ASN	R	36	179.130	130.449	-78.572	1.00	61.60	RS18
ATOM	49736	O	ASN	R	36	179.372	131.230	-77.651	1.00	61.60	RS18
ATOM	49737	N	VAL	R	37	180.024	129.595	-79.062	1.00	60.79	RS18
ATOM	49738	CA	VAL	R	37	181.385	129.499	-78.549	1.00	60.79	RS18
ATOM	49739	CB	VAL	R	37	182.331	128.855	-79.581	1.00	89.54	RS18
ATOM	49740	CG1	VAL	R	37	183.609	128.394	-78.890	1.00	89.54	RS18
ATOM	49741	CG2	VAL	R	37	181.634	127.704	-80.294	1.00	89.54	RS18
ATOM	49742	C	VAL	R	37	181.921	130.882	-78.240	1.00	60.79	RS18
ATOM	49743	O	VAL	R	37	182.746	131.060	-77.347	1.00	60.79	RS18
ATOM	49744	N	GLU	R	38	181.440	131.861	-78.996	1.00	67.93	RS18
ATOM	49745	CA	GLU	R	38	181.865	133.239	-78.828	1.00	67.93	RS18
ATOM	49746	CB	GLU	R	38	181.045	134.150	-79.747	1.00	170.66	RS18
ATOM	49747	CG	GLU	R	38	180.379	133.448	-80.938	1.00	170.66	RS18
ATOM	49748	CD	GLU	R	38	181.353	132.722	-81.848	1.00	170.66	RS18
ATOM	49749	OE1	GLU	R	38	181.951	131.715	-81.413	1.00	170.66	RS18
ATOM	49750	OE2	GLU	R	38	181.516	133.158	-83.008	1.00	170.66	RS18
ATOM	49751	C	GLU	R	38	181.681	133.659	-77.375	1.00	67.93	RS18
ATOM	49752	O	GLU	R	38	182.639	134.042	-76.698	1.00	67.93	RS18
ATOM	49753	N	VAL	R	39	180.444	133.556	-76.899	1.00	64.55	RS18
ATOM	49754	CA	VAL	R	39	180.107	133.942	-75.536	1.00	64.55	RS18
ATOM	49755	CB	VAL	R	39	178.617	134.285	-75.417	1.00	60.32	RS18
ATOM	49756	CG1	VAL	R	39	177.776	133.046	-75.617	1.00	60.32	RS18
ATOM	49757	CG2	VAL	R	39	178.346	134.892	-74.063	1.00	60.32	RS18
ATOM	49758	C	VAL	R	39	180.438	132.906	-74.463	1.00	64.55	RS18
ATOM	49759	O	VAL	R	39	180.932	133.265	-73.394	1.00	64.55	RS18
ATOM	49760	N	LEU	R	40	180.161	131.632	-74.734	1.00	50.68	RS18
ATOM	49761	CA	LEU	R	40	180.442	130.577	-73.760	1.00	50.68	RS18
ATOM	49762	CB	LEU	R	40	180.142	129.204	-74.369	1.00	57.55	RS18
ATOM	49763	CG	LEU	R	40	178.834	129.103	-75.168	1.00	57.55	RS18
ATOM	49764	CD1	LEU	R	40	178.340	127.665	-75.164	1.00	57.55	RS18
ATOM	49765	CD2	LEU	R	40	177.772	129.996	-74.564	1.00	57.55	RS18
ATOM	49766	C	LEU	R	40	181.912	130.672	-73.345	1.00	50.68	RS18
ATOM	49767	O	LEU	R	40	182.272	130.534	-72.170	1.00	50.68	RS18
ATOM	49768	N	LYS	R	41	182.747	130.918	-74.345	1.00	73.41	RS18
ATOM	49769	CA	LYS	R	41	184.189	131.091	-74.196	1.00	73.41	RS18
ATOM	49770	CB	LYS	R	41	184.692	131.831	-75.437	1.00	117.41	RS18
ATOM	49771	CG	LYS	R	41	186.177	132.071	-75.555	1.00	117.41	RS18
ATOM	49772	CD	LYS	R	41	186.443	133.177	-76.599	1.00	117.41	RS18
ATOM	49773	CE	LYS	R	41	185.701	132.940	-77.927	1.00	117.41	RS18
ATOM	49774	NZ	LYS	R	41	185.880	134.048	-78.918	1.00	117.41	RS18
ATOM	49775	C	LYS	R	41	184.467	131.924	-72.947	1.00	73.41	RS18
ATOM	49776	O	LYS	R	41	185.489	131.762	-72.283	1.00	73.41	RS18
ATOM	49777	N	ARG	R	42	183.521	132.809	-72.645	1.00	64.10	RS18
ATOM	49778	CA	ARG	R	42	183.588	133.733	-71.514	1.00	64.10	RS18
ATOM	49779	CB	ARG	R	42	182.582	134.860	-71.738	1.00	126.65	RS18
ATOM	49780	CG	ARG	R	42	182.944	135.815	-72.850	1.00	126.65	RS18
ATOM	49781	CD	ARG	R	42	184.005	136.788	-72.376	1.00	126.65	RS18
ATOM	49782	NE	ARG	R	42	183.791	138.114	-72.940	1.00	126.65	RS18
ATOM	49783	CZ	ARG	R	42	182.645	138.785	-72.849	1.00	126.65	RS18
ATOM	49784	NH1	ARG	R	42	181.606	138.254	-72.215	1.00	126.65	RS18
ATOM	49785	NH2	ARG	R	42	182.534	139.990	-73.391	1.00	126.65	RS18
ATOM	49786	C	ARG	R	42	183.360	133.154	-70.120	1.00	64.10	RS18
ATOM	49787	O	ARG	R	42	183.748	133.764	-69.122	1.00	64.10	RS18
ATOM	49788	N	PHE	R	43	182.724	131.995	-70.038	1.00	59.63	RS18
ATOM	49789	CA	PHE	R	43	182.467	131.423	-68.737	1.00	59.63	RS18
ATOM	49790	CB	PHE	R	43	181.053	130.866	-68.695	1.00	60.29	RS18
ATOM	49791	CG	PHE	R	43	180.008	131.928	-68.838	1.00	60.29	RS18
ATOM	49792	CD1	PHE	R	43	179.499	132.263	-70.091	1.00	60.29	RS18
ATOM	49793	CD2	PHE	R	43	179.582	132.653	-67.725	1.00	60.29	RS18
ATOM	49794	CE1	PHE	R	43	178.578	133.310	-70.236	1.00	60.29	RS18



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ATOM	49795	CE2	PHE	R	43	178.665	133.700	-67.854	1.00	60.29	RS18
ATOM	49796	CZ	PHE	R	43	178.162	134.029	-69.116	1.00	60.29	RS18
ATOM	49797	C	PHE	R	43	183.484	130.394	-68.291	1.00	59.63	RS18
ATOM	49798	O	PHE	R	43	183.343	129.797	-67.223	1.00	59.63	RS18
ATOM	49799	N	LEU	R	44	184.518	130.198	-69.103	1.00	60.49	RS18
ATOM	49800	CA	LEU	R	44	185.585	129.268	-68.755	1.00	60.49	RS18
ATOM	49801	CB	LEU	R	44	186.003	128.443	-69.970	1.00	56.44	RS18
ATOM	49802	CG	LEU	R	44	184.966	127.436	-70.479	1.00	56.44	RS18
ATOM	49803	CD1	LEU	R	44	185.528	126.638	-71.654	1.00	56.44	RS18
ATOM	49804	CD2	LEU	R	44	184.577	126.498	-69.343	1.00	56.44	RS18
ATOM	49805	C	LEU	R	44	186.759	130.102	-68.266	1.00	60.49	RS18
ATOM	49806	O	LEU	R	44	186.924	131.241	-68.692	1.00	60.49	RS18
ATOM	49807	N	SER	R	45	187.568	129.555	-67.367	1.00	69.23	RS18
ATOM	49808	CA	SER	R	45	188.715	130.297	-66.852	1.00	69.23	RS18
ATOM	49809	CB	SER	R	45	189.098	129.786	-65.464	1.00	64.80	RS18
ATOM	49810	OG	SER	R	45	189.484	128.419	-65.517	1.00	64.80	RS18
ATOM	49811	C	SER	R	45	189.896	130.112	-67.795	1.00	69.23	RS18
ATOM	49812	O	SER	R	45	189.722	129.768	-68.965	1.00	69.23	RS18
ATOM	49813	N	GLU	R	46	191.100	130.339	-67.275	1.00	84.68	RS18
ATOM	49814	CA	GLU	R	46	192.332	130.175	-68.043	1.00	84.68	RS18
ATOM	49815	CB	GLU	R	46	193.489	130.897	-67.340	1.00	154.63	RS18
ATOM	49816	CG	GLU	R	46	193.212	132.371	-67.054	1.00	154.63	RS18
ATOM	49817	CD	GLU	R	46	191.967	132.580	-66.196	1.00	154.63	RS18
ATOM	49818	OE1	GLU	R	46	191.939	132.094	-65.045	1.00	154.63	RS18
ATOM	49819	OE2	GLU	R	46	191.010	133.225	-66.675	1.00	154.63	RS18
ATOM	49820	C	GLU	R	46	192.592	128.669	-68.103	1.00	84.68	RS18
ATOM	49821	O	GLU	R	46	193.728	128.204	-68.129	1.00	84.68	RS18
ATOM	49822	N	THR	R	47	191.492	127.926	-68.092	1.00	87.62	RS18
ATOM	49823	CA	THR	R	47	191.468	126.471	-68.161	1.00	87.62	RS18
ATOM	49824	CB	THR	R	47	191.799	125.807	-66.798	1.00	35.19	RS18
ATOM	49825	OG1	THR	R	47	193.092	126.243	-66.349	1.00	35.19	RS18
ATOM	49826	CG2	THR	R	47	191.792	124.269	-66.935	1.00	35.19	RS18
ATOM	49827	C	THR	R	47	190.021	126.158	-68.527	1.00	87.62	RS18
ATOM	49828	O	THR	R	47	189.116	126.944	-68.227	1.00	87.62	RS18
ATOM	49829	N	GLY	R	48	189.800	125.026	-69.183	1.00	100.02	RS18
ATOM	49830	CA	GLY	R	48	188.452	124.667	-69.576	1.00	100.02	RS18
ATOM	49831	C	GLY	R	48	187.502	124.530	-68.402	1.00	100.02	RS18
ATOM	49832	O	GLY	R	48	186.435	123.945	-68.551	1.00	100.02	RS18
ATOM	49833	N	LYS	R	49	187.885	125.064	-67.242	1.00	61.20	RS18
ATOM	49834	CA	LYS	R	49	187.060	124.992	-66.036	1.00	61.20	RS18
ATOM	49835	CB	LYS	R	49	187.915	125.201	-64.789	1.00	69.81	RS18
ATOM	49836	CG	LYS	R	49	188.821	124.033	-64.483	1.00	69.81	RS18
ATOM	49837	CD	LYS	R	49	189.920	124.432	-63.530	1.00	69.81	RS18
ATOM	49838	CE	LYS	R	49	191.011	123.374	-63.491	1.00	69.81	RS18
ATOM	49839	NZ	LYS	R	49	192.281	123.917	-62.912	1.00	69.81	RS18
ATOM	49840	C	LYS	R	49	185.956	126.023	-66.062	1.00	61.20	RS18
ATOM	49841	O	LYS	R	49	186.184	127.181	-66.408	1.00	61.20	RS18
ATOM	49842	N	ILE	R	50	184.755	125.582	-65.707	1.00	58.45	RS18
ATOM	49843	CA	ILE	R	50	183.588	126.448	-65.663	1.00	58.45	RS18
ATOM	49844	CB	ILE	R	50	182.311	125.645	-65.511	1.00	57.90	RS18
ATOM	49845	CG2	ILE	R	50	181.157	126.580	-65.207	1.00	57.90	RS18
ATOM	49846	CG1	ILE	R	50	182.069	124.823	-66.772	1.00	57.90	RS18
ATOM	49847	CD1	ILE	R	50	180.936	123.847	-66.626	1.00	57.90	RS18
ATOM	49848	C	ILE	R	50	183.697	127.345	-64.452	1.00	58.45	RS18
ATOM	49849	O	ILE	R	50	183.816	126.866	-63.325	1.00	58.45	RS18
ATOM	49850	N	LEU	R	51	183.640	128.648	-64.680	1.00	57.00	RS18
ATOM	49851	CA	LEU	R	51	183.752	129.601	-63.592	1.00	57.00	RS18
ATOM	49852	CB	LEU	R	51	183.786	131.013	-64.176	1.00	51.37	RS18
ATOM	49853	CG	LEU	R	51	185.100	131.369	-64.882	1.00	51.37	RS18
ATOM	49854	CD1	LEU	R	51	184.845	132.355	-66.017	1.00	51.37	RS18
ATOM	49855	CD2	LEU	R	51	186.085	131.936	-63.852	1.00	51.37	RS18
ATOM	49856	C	LEU	R	51	182.632	129.464	-62.552	1.00	57.00	RS18
ATOM	49857	O	LEU	R	51	181.499	129.094	-62.876	1.00	57.00	RS18
ATOM	49858	N	PRO	R	52	182.952	129.745	-61.280	1.00	73.91	RS18
ATOM	49859	CD	PRO	R	52	184.304	130.091	-60.826	1.00	54.49	RS18
ATOM	49860	CA	PRO	R	52	182.036	129.682	-60.139	1.00	73.91	RS18
ATOM	49861	CB	PRO	R	52	182.944	129.974	-58.951	1.00	54.49	RS18
ATOM	49862	CG	PRO	R	52	184.294	129.562	-59.431	1.00	54.49	RS18
ATOM	49863	C	PRO	R	52	181.004	130.779	-60.309	1.00	73.91	RS18
ATOM	49864	O	PRO	R	52	181.150	131.623	-61.191	1.00	73.91	RS18
ATOM	49865	N	ARG	R	53	179.970	130.798	-59.477	1.00	56.85	RS18
ATOM	49866	CA	ARG	R	53	178.986	131.855	-59.623	1.00	56.85	RS18
ATOM	49867	CB	ARG	R	53	177.722	131.537	-58.819	1.00	62.77	RS18
ATOM	49868	CG	ARG	R	53	176.664	130.767	-59.617	1.00	62.77	RS18
ATOM	49869	CD	ARG	R	53	175.223	131.193	-59.252	1.00	62.77	RS18
ATOM	49870	NE	ARG	R	53	174.897	130.916	-57.852	1.00	62.77	RS18
ATOM	49871	CZ	ARG	R	53	173.737	131.208	-57.274	1.00	62.77	RS18



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ATOM	49872	NH1	ARG	R	53	172.776	131.790	-57.964	1.00	62.77	RS18
ATOM	49873	NH2	ARG	R	53	173.535	130.918	-56.000	1.00	62.77	RS18
ATOM	49874	C	ARG	R	53	179.532	133.244	-59.243	1.00	56.85	RS18
ATOM	49875	O	ARG	R	53	179.113	134.261	-59.809	1.00	56.85	RS18
ATOM	49876	N	ARG	R	54	180.479	133.301	-58.311	1.00	59.43	RS18
ATOM	49877	CA	ARG	R	54	181.017	134.599	-57.915	1.00	59.43	RS18
ATOM	49878	CB	ARG	R	54	181.805	134.495	-56.607	1.00123.19		RS18
ATOM	49879	CG	ARG	R	54	181.765	133.135	-55.950	1.00123.19		RS18
ATOM	49880	CD	ARG	R	54	182.945	132.312	-56.395	1.00123.19		RS18
ATOM	49881	NE	ARG	R	54	184.179	133.078	-56.258	1.00123.19		RS18
ATOM	49882	CZ	ARG	R	54	185.396	132.546	-56.280	1.00123.19		RS18
ATOM	49883	NH1	ARG	R	54	185.548	131.236	-56.432	1.00123.19		RS18
ATOM	49884	NH2	ARG	R	54	186.461	133.326	-56.151	1.00123.19		RS18
ATOM	49885	C	ARG	R	54	181.896	135.213	-58.996	1.00	59.43	RS18
ATOM	49886	O	ARG	R	54	182.550	136.239	-58.775	1.00	59.43	RS18
ATOM	49887	N	ARG	R	55	181.910	134.578	-60.165	1.00	51.97	RS18
ATOM	49888	CA	ARG	R	55	182.696	135.048	-61.304	1.00	51.97	RS18
ATOM	49889	CB	ARG	R	55	183.868	134.104	-61.562	1.00	95.23	RS18
ATOM	49890	CG	ARG	R	55	184.915	134.134	-60.477	1.00	95.23	RS18
ATOM	49891	CD	ARG	R	55	185.779	135.386	-60.555	1.00	95.23	RS18
ATOM	49892	NE	ARG	R	55	186.765	135.297	-61.632	1.00	95.23	RS18
ATOM	49893	CZ	ARG	R	55	186.518	135.581	-62.907	1.00	95.23	RS18
ATOM	49894	NH1	ARG	R	55	185.309	135.984	-63.279	1.00	95.23	RS18
ATOM	49895	NH2	ARG	R	55	187.478	135.451	-63.814	1.00	95.23	RS18
ATOM	49896	C	ARG	R	55	181.781	135.082	-62.515	1.00	51.97	RS18
ATOM	49897	O	ARG	R	55	181.815	136.022	-63.307	1.00	51.97	RS18
ATOM	49898	N	THR	R	56	180.955	134.051	-62.645	1.00	49.79	RS18
ATOM	49899	CA	THR	R	56	180.030	133.974	-63.754	1.00	49.79	RS18
ATOM	49900	CB	THR	R	56	179.416	132.581	-63.896	1.00	51.74	RS18
ATOM	49901	OG1	THR	R	56	178.649	132.275	-62.729	1.00	51.74	RS18
ATOM	49902	CG2	THR	R	56	180.502	131.544	-64.067	1.00	51.74	RS18
ATOM	49903	C	THR	R	56	178.907	134.952	-63.507	1.00	49.79	RS18
ATOM	49904	O	THR	R	56	178.180	135.310	-64.441	1.00	49.79	RS18
ATOM	49905	N	GLY	R	57	178.766	135.375	-62.247	1.00	57.59	RS18
ATOM	49906	CA	GLY	R	57	177.715	136.311	-61.871	1.00	57.59	RS18
ATOM	49907	C	GLY	R	57	176.317	135.837	-62.237	1.00	57.59	RS18
ATOM	49908	O	GLY	R	57	175.379	136.628	-62.301	1.00	57.59	RS18
ATOM	49909	N	LEU	R	58	176.175	134.542	-62.489	1.00	62.41	RS18
ATOM	49910	CA	LEU	R	58	174.886	133.979	-62.851	1.00	62.41	RS18
ATOM	49911	CB	LEU	R	58	175.068	132.728	-63.705	1.00	75.71	RS18
ATOM	49912	CG	LEU	R	58	175.570	132.912	-65.130	1.00	75.71	RS18
ATOM	49913	CD1	LEU	R	58	175.586	131.564	-65.835	1.00	75.71	RS18
ATOM	49914	CD2	LEU	R	58	174.655	133.869	-65.861	1.00	75.71	RS18
ATOM	49915	C	LEU	R	58	174.097	133.617	-61.611	1.00	62.41	RS18
ATOM	49916	O	LEU	R	58	174.359	134.134	-60.520	1.00	62.41	RS18
ATOM	49917	N	SER	R	59	173.142	132.707	-61.776	1.00	44.65	RS18
ATOM	49918	CA	SER	R	59	172.308	132.301	-60.664	1.00	44.65	RS18
ATOM	49919	CB	SER	R	59	171.090	133.208	-60.582	1.00	49.17	RS18
ATOM	49920	OG	SER	R	59	170.198	132.897	-61.630	1.00	49.17	RS18
ATOM	49921	C	SER	R	59	171.830	130.858	-60.727	1.00	44.65	RS18
ATOM	49922	O	SER	R	59	171.387	130.379	-61.774	1.00	44.65	RS18
ATOM	49923	N	GLY	R	60	171.899	130.192	-59.576	1.00	43.19	RS18
ATOM	49924	CA	GLY	R	60	171.466	128.820	-59.463	1.00	43.19	RS18
ATOM	49925	C	GLY	R	60	170.892	128.284	-60.753	1.00	43.19	RS18
ATOM	49926	O	GLY	R	60	171.558	127.522	-61.450	1.00	43.19	RS18
ATOM	49927	N	LYS	R	61	169.676	128.701	-61.095	1.00	63.88	RS18
ATOM	49928	CA	LYS	R	61	169.036	128.205	-62.311	1.00	63.88	RS18
ATOM	49929	CB	LYS	R	61	167.648	128.828	-62.481	1.00	53.91	RS18
ATOM	49930	CG	LYS	R	61	166.766	128.151	-63.527	1.00	53.91	RS18
ATOM	49931	CD	LYS	R	61	165.417	128.866	-63.629	1.00	53.91	RS18
ATOM	49932	CE	LYS	R	61	164.448	128.169	-64.587	1.00	53.91	RS18
ATOM	49933	NZ	LYS	R	61	163.152	128.911	-64.707	1.00	53.91	RS18
ATOM	49934	C	LYS	R	61	169.872	128.445	-63.566	1.00	63.88	RS18
ATOM	49935	O	LYS	R	61	170.167	127.500	-64.297	1.00	63.88	RS18
ATOM	49936	N	GLU	R	62	170.251	129.693	-63.823	1.00	67.45	RS18
ATOM	49937	CA	GLU	R	62	171.061	130.000	-64.999	1.00	67.45	RS18
ATOM	49938	CB	GLU	R	62	171.456	131.476	-65.009	1.00	70.05	RS18
ATOM	49939	CG	GLU	R	62	170.326	132.459	-64.796	1.00	70.05	RS18
ATOM	49940	CD	GLU	R	62	170.829	133.897	-64.721	1.00	70.05	RS18
ATOM	49941	OE1	GLU	R	62	171.735	134.182	-63.901	1.00	70.05	RS18
ATOM	49942	OE2	GLU	R	62	170.318	134.746	-65.483	1.00	70.05	RS18
ATOM	49943	C	GLU	R	62	172.341	129.157	-64.955	1.00	67.45	RS18
ATOM	49944	O	GLU	R	62	172.574	128.287	-65.804	1.00	67.45	RS18
ATOM	49945	N	GLN	R	63	173.166	129.440	-63.950	1.00	41.22	RS18
ATOM	49946	CA	GLN	R	63	174.433	128.754	-63.726	1.00	41.22	RS18
ATOM	49947	CB	GLN	R	63	174.898	129.032	-62.305	1.00	52.45	RS18
ATOM	49948	CG	GLN	R	63	176.164	128.320	-61.922	1.00	52.45	RS18



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ATOM	49949	CD	GLN	R	63	177.363	128.862	-62.654	1.00	52.45	RS18
ATOM	49950	OE1	GLN	R	63	177.309	129.947	-63.239	1.00	52.45	RS18
ATOM	49951	NE2	GLN	R	63	178.468	128.118	-62.615	1.00	52.45	RS18
ATOM	49952	C	GLN	R	63	174.288	127.255	-63.917	1.00	41.22	RS18
ATOM	49953	O	GLN	R	63	175.222	126.562	-64.312	1.00	41.22	RS18
ATOM	49954	N	ARG	R	64	173.098	126.761	-63.623	1.00	52.40	RS18
ATOM	49955	CA	ARG	R	64	172.827	125.349	-63.739	1.00	52.40	RS18
ATOM	49956	CB	ARG	R	64	171.581	124.998	-62.944	1.00	53.95	RS18
ATOM	49957	CG	ARG	R	64	171.407	123.519	-62.695	1.00	53.95	RS18
ATOM	49958	CD	ARG	R	64	170.074	123.274	-62.031	1.00	53.95	RS18
ATOM	49959	NE	ARG	R	64	169.819	124.269	-60.998	1.00	53.95	RS18
ATOM	49960	CZ	ARG	R	64	168.611	124.719	-60.683	1.00	53.95	RS18
ATOM	49961	NH1	ARG	R	64	167.540	124.264	-61.324	1.00	53.95	RS18
ATOM	49962	NH2	ARG	R	64	168.476	125.623	-59.726	1.00	53.95	RS18
ATOM	49963	C	ARG	R	64	172.646	124.940	-65.189	1.00	52.40	RS18
ATOM	49964	O	ARG	R	64	173.053	123.844	-65.574	1.00	52.40	RS18
ATOM	49965	N	ILE	R	65	172.025	125.800	-65.995	1.00	75.42	RS18
ATOM	49966	CA	ILE	R	65	171.826	125.477	-67.408	1.00	75.42	RS18
ATOM	49967	CB	ILE	R	65	170.611	126.218	-68.029	1.00	51.28	RS18
ATOM	49968	CG2	ILE	R	65	169.475	125.225	-68.288	1.00	51.28	RS18
ATOM	49969	CG1	ILE	R	65	170.168	127.364	-67.116	1.00	51.28	RS18
ATOM	49970	CD1	ILE	R	65	168.862	128.030	-67.523	1.00	51.28	RS18
ATOM	49971	C	ILE	R	65	173.077	125.828	-68.188	1.00	75.42	RS18
ATOM	49972	O	ILE	R	65	173.331	125.267	-69.253	1.00	75.42	RS18
ATOM	49973	N	LEU	R	66	173.861	126.756	-67.650	1.00	58.70	RS18
ATOM	49974	CA	LEU	R	66	175.100	127.146	-68.300	1.00	58.70	RS18
ATOM	49975	CB	LEU	R	66	175.865	128.165	-67.462	1.00	46.22	RS18
ATOM	49976	CG	LEU	R	66	177.295	128.420	-67.964	1.00	46.22	RS18
ATOM	49977	CD1	LEU	R	66	177.221	129.080	-69.337	1.00	46.22	RS18
ATOM	49978	CD2	LEU	R	66	178.073	129.307	-66.990	1.00	46.22	RS18
ATOM	49979	C	LEU	R	66	175.943	125.896	-68.401	1.00	58.70	RS18
ATOM	49980	O	LEU	R	66	176.330	125.472	-69.491	1.00	58.70	RS18
ATOM	49981	N	ALA	R	67	176.217	125.314	-67.239	1.00	52.37	RS18
ATOM	49982	CA	ALA	R	67	177.026	124.112	-67.137	1.00	52.37	RS18
ATOM	49983	CB	ALA	R	67	176.911	123.528	-65.736	1.00	64.94	RS18
ATOM	49984	C	ALA	R	67	176.652	123.066	-68.174	1.00	52.37	RS18
ATOM	49985	O	ALA	R	67	177.522	122.562	-68.883	1.00	52.37	RS18
ATOM	49986	N	LYS	R	68	175.366	122.736	-68.267	1.00	60.97	RS18
ATOM	49987	CA	LYS	R	68	174.916	121.739	-69.233	1.00	60.97	RS18
ATOM	49988	CB	LYS	R	68	173.419	121.505	-69.104	1.00	84.66	RS18
ATOM	49989	CG	LYS	R	68	173.090	120.307	-68.262	1.00	84.66	RS18
ATOM	49990	CD	LYS	R	68	172.235	119.341	-69.046	1.00	84.66	RS18
ATOM	49991	CE	LYS	R	68	171.940	118.108	-68.219	1.00	84.66	RS18
ATOM	49992	NZ	LYS	R	68	170.887	117.259	-68.843	1.00	84.66	RS18
ATOM	49993	C	LYS	R	68	175.247	122.143	-70.661	1.00	60.97	RS18
ATOM	49994	O	LYS	R	68	175.672	121.315	-71.472	1.00	60.97	RS18
ATOM	49995	N	THR	R	69	175.044	123.419	-70.969	1.00	64.86	RS18
ATOM	49996	CA	THR	R	69	175.350	123.921	-72.297	1.00	64.86	RS18
ATOM	49997	CB	THR	R	69	175.025	125.416	-72.412	1.00	61.43	RS18
ATOM	49998	OG1	THR	R	69	173.605	125.597	-72.493	1.00	61.43	RS18
ATOM	49999	CG2	THR	R	69	175.676	125.996	-73.642	1.00	61.43	RS18
ATOM	50000	C	THR	R	69	176.838	123.711	-72.557	1.00	64.86	RS18
ATOM	50001	O	THR	R	69	177.222	123.001	-73.479	1.00	64.86	RS18
ATOM	50002	N	ILE	R	70	177.669	124.327	-71.730	1.00	62.24	RS18
ATOM	50003	CA	ILE	R	70	179.113	124.206	-71.856	1.00	62.24	RS18
ATOM	50004	CB	ILE	R	70	179.798	124.742	-70.610	1.00	36.18	RS18
ATOM	50005	CG2	ILE	R	70	181.284	124.435	-70.642	1.00	36.18	RS18
ATOM	50006	CG1	ILE	R	70	179.543	126.235	-70.506	1.00	36.18	RS18
ATOM	50007	CD1	ILE	R	70	180.127	126.839	-69.254	1.00	36.18	RS18
ATOM	50008	C	ILE	R	70	179.606	122.777	-72.078	1.00	62.24	RS18
ATOM	50009	O	ILE	R	70	180.567	122.556	-72.817	1.00	62.24	RS18
ATOM	50010	N	LYS	R	71	178.970	121.805	-71.436	1.00	53.77	RS18
ATOM	50011	CA	LYS	R	71	179.411	120.434	-71.601	1.00	53.77	RS18
ATOM	50012	CB	LYS	R	71	178.867	119.569	-70.476	1.00	50.00	RS18
ATOM	50013	CG	LYS	R	71	179.482	119.951	-69.151	1.00	50.00	RS18
ATOM	50014	CD	LYS	R	71	178.871	119.185	-68.014	1.00	50.00	RS18
ATOM	50015	CE	LYS	R	71	179.239	119.825	-66.691	1.00	50.00	RS18
ATOM	50016	NZ	LYS	R	71	178.458	119.210	-65.578	1.00	50.00	RS18
ATOM	50017	C	LYS	R	71	179.022	119.887	-72.957	1.00	53.77	RS18
ATOM	50018	O	LYS	R	71	179.823	119.209	-73.604	1.00	53.77	RS18
ATOM	50019	N	ARG	R	72	177.804	120.185	-73.400	1.00	79.32	RS18
ATOM	50020	CA	ARG	R	72	177.355	119.720	-74.713	1.00	79.32	RS18
ATOM	50021	CB	ARG	R	72	175.960	120.276	-75.044	1.00	82.72	RS18
ATOM	50022	CG	ARG	R	72	174.791	119.612	-74.305	1.00	82.72	RS18
ATOM	50023	CD	ARG	R	72	173.463	120.299	-74.656	1.00	82.72	RS18
ATOM	50024	NE	ARG	R	72	172.274	119.502	-74.333	1.00	82.72	RS18
ATOM	50025	CZ	ARG	R	72	171.039	119.793	-74.751	1.00	82.72	RS18



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ATOM	50026	NH1	ARG	R	72	170.819	120.863	-75.508	1.00	82.72	RS18
ATOM	50027	NH2	ARG	R	72	170.017	119.004	-74.430	1.00	82.72	RS18
ATOM	50028	C	ARG	R	72	178.371	120.203	-75.757	1.00	79.32	RS18
ATOM	50029	O	ARG	R	72	178.723	119.472	-76.685	1.00	79.32	RS18
ATOM	50030	N	ALA	R	73	178.845	121.436	-75.579	1.00	53.02	RS18
ATOM	50031	CA	ALA	R	73	179.818	122.045	-76.480	1.00	53.02	RS18
ATOM	50032	CB	ALA	R	73	180.089	123.487	-76.066	1.00	31.06	RS18
ATOM	50033	C	ALA	R	73	181.115	121.258	-76.463	1.00	53.02	RS18
ATOM	50034	O	ALA	R	73	181.540	120.715	-77.485	1.00	53.02	RS18
ATOM	50035	N	ARG	R	74	181.746	121.224	-75.293	1.00	54.09	RS18
ATOM	50036	CA	ARG	R	74	182.992	120.494	-75.104	1.00	54.09	RS18
ATOM	50037	CB	ARG	R	74	183.196	120.178	-73.626	1.00	51.91	RS18
ATOM	50038	CG	ARG	R	74	183.532	121.366	-72.752	1.00	51.91	RS18
ATOM	50039	CD	ARG	R	74	183.598	120.881	-71.335	1.00	51.91	RS18
ATOM	50040	NE	ARG	R	74	184.168	121.836	-70.393	1.00	51.91	RS18
ATOM	50041	CZ	ARG	R	74	184.177	121.630	-69.080	1.00	51.91	RS18
ATOM	50042	NH1	ARG	R	74	183.648	120.518	-68.585	1.00	51.91	RS18
ATOM	50043	NH2	ARG	R	74	184.709	122.519	-68.260	1.00	51.91	RS18
ATOM	50044	C	ARG	R	74	182.943	119.195	-75.889	1.00	54.09	RS18
ATOM	50045	O	ARG	R	74	183.873	118.871	-76.621	1.00	54.09	RS18
ATOM	50046	N	ILE	R	75	181.856	118.450	-75.729	1.00	50.57	RS18
ATOM	50047	CA	ILE	R	75	181.703	117.203	-76.454	1.00	50.57	RS18
ATOM	50048	CB	ILE	R	75	180.376	116.502	-76.096	1.00	73.21	RS18
ATOM	50049	CG2	ILE	R	75	179.961	115.550	-77.211	1.00	73.21	RS18
ATOM	50050	CG1	ILE	R	75	180.541	115.756	-74.772	1.00	73.21	RS18
ATOM	50051	CD1	ILE	R	75	179.567	114.590	-74.583	1.00	73.21	RS18
ATOM	50052	C	ILE	R	75	181.772	117.447	-77.966	1.00	50.57	RS18
ATOM	50053	O	ILE	R	75	182.611	116.861	-78.650	1.00	50.57	RS18
ATOM	50054	N	LEU	R	76	180.895	118.304	-78.485	1.00	80.38	RS18
ATOM	50055	CA	LEU	R	76	180.901	118.605	-79.911	1.00	80.38	RS18
ATOM	50056	CB	LEU	R	76	179.991	119.790	-80.221	1.00	52.78	RS18
ATOM	50057	CG	LEU	R	76	178.488	119.509	-80.276	1.00	52.78	RS18
ATOM	50058	CD1	LEU	R	76	177.749	120.778	-80.687	1.00	52.78	RS18
ATOM	50059	CD2	LEU	R	76	178.205	118.397	-81.271	1.00	52.78	RS18
ATOM	50060	C	LEU	R	76	182.315	118.930	-80.369	1.00	80.38	RS18
ATOM	50061	O	LEU	R	76	182.687	118.638	-81.503	1.00	80.38	RS18
ATOM	50062	N	GLY	R	77	183.098	119.536	-79.482	1.00	42.42	RS18
ATOM	50063	CA	GLY	R	77	184.470	119.875	-79.816	1.00	42.42	RS18
ATOM	50064	C	GLY	R	77	184.695	121.371	-79.908	1.00	42.42	RS18
ATOM	50065	O	GLY	R	77	185.776	121.830	-80.293	1.00	42.42	RS18
ATOM	50066	N	LEU	R	78	183.681	122.141	-79.528	1.00	60.00	RS18
ATOM	50067	CA	LEU	R	78	183.770	123.593	-79.596	1.00	60.00	RS18
ATOM	50068	CB	LEU	R	78	182.374	124.166	-79.780	1.00	70.26	RS18
ATOM	50069	CG	LEU	R	78	181.607	123.351	-80.822	1.00	70.26	RS18
ATOM	50070	CD1	LEU	R	78	180.181	123.851	-80.941	1.00	70.26	RS18
ATOM	50071	CD2	LEU	R	78	182.331	123.445	-82.153	1.00	70.26	RS18
ATOM	50072	C	LEU	R	78	184.452	124.234	-78.393	1.00	60.00	RS18
ATOM	50073	O	LEU	R	78	185.188	125.207	-78.548	1.00	60.00	RS18
ATOM	50074	N	LEU	R	79	184.206	123.700	-77.196	1.00	52.07	RS18
ATOM	50075	CA	LEU	R	79	184.831	124.235	-75.980	1.00	52.07	RS18
ATOM	50076	CB	LEU	R	79	183.764	124.575	-74.936	1.00	61.77	RS18
ATOM	50077	CG	LEU	R	79	182.931	125.831	-75.223	1.00	61.77	RS18
ATOM	50078	CD1	LEU	R	79	181.697	125.876	-74.319	1.00	61.77	RS18
ATOM	50079	CD2	LEU	R	79	183.798	127.060	-75.022	1.00	61.77	RS18
ATOM	50080	C	LEU	R	79	185.829	123.227	-75.412	1.00	52.07	RS18
ATOM	50081	O	LEU	R	79	185.625	122.021	-75.501	1.00	52.07	RS18
ATOM	50082	N	PRO	R	80	186.918	123.716	-74.813	1.00	47.07	RS18
ATOM	50083	CD	PRO	R	80	187.133	125.135	-74.484	1.00	43.53	RS18
ATOM	50084	CA	PRO	R	80	187.973	122.887	-74.225	1.00	47.07	RS18
ATOM	50085	CB	PRO	R	80	189.090	123.887	-73.983	1.00	43.53	RS18
ATOM	50086	CG	PRO	R	80	188.333	125.077	-73.522	1.00	43.53	RS18
ATOM	50087	C	PRO	R	80	187.558	122.195	-72.935	1.00	47.07	RS18
ATOM	50088	O	PRO	R	80	186.643	122.637	-72.244	1.00	47.07	RS18
ATOM	50089	N	PHE	R	81	188.225	121.096	-72.613	1.00	69.29	RS18
ATOM	50090	CA	PHE	R	81	187.908	120.401	-71.384	1.00	69.29	RS18
ATOM	50091	CB	PHE	R	81	188.056	118.894	-71.536	1.00	54.95	RS18
ATOM	50092	CG	PHE	R	81	186.883	118.230	-72.194	1.00	54.95	RS18
ATOM	50093	CD1	PHE	R	81	186.690	118.321	-73.568	1.00	54.95	RS18
ATOM	50094	CD2	PHE	R	81	185.980	117.490	-71.439	1.00	54.95	RS18
ATOM	50095	CE1	PHE	R	81	185.614	117.681	-74.179	1.00	54.95	RS18
ATOM	50096	CE2	PHE	R	81	184.904	116.847	-72.040	1.00	54.95	RS18
ATOM	50097	CZ	PHE	R	81	184.721	116.942	-73.411	1.00	54.95	RS18
ATOM	50098	C	PHE	R	81	188.892	120.892	-70.356	1.00	69.29	RS18
ATOM	50099	O	PHE	R	81	188.598	120.899	-69.161	1.00	69.29	RS18
ATOM	50100	N	THR	R	82	190.063	121.317	-70.824	1.00	66.81	RS18
ATOM	50101	CA	THR	R	82	191.085	121.805	-69.910	1.00	66.81	RS18
ATOM	50102	CB	THR	R	82	191.568	120.661	-68.988	1.00	81.58	RS18



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ATOM	50103	OG1	THR	R	82	192.546	121.163	-68.070	1.00	81.58	RS18
ATOM	50104	CG2	THR	R	82	192.156	119.523	-69.809	1.00	81.58	RS18
ATOM	50105	C	THR	R	82	192.290	122.436	-70.609	1.00	66.81	RS18
ATOM	50106	O	THR	R	82	192.854	121.860	-71.535	1.00	66.81	RS18
ATOM	50107	N	GLU	R	83	192.679	123.625	-70.155	1.00	73.16	RS18
ATOM	50108	CA	GLU	R	83	193.813	124.338	-70.733	1.00	73.16	RS18
ATOM	50109	CB	GLU	R	83	193.490	125.826	-70.893	1.00	152.67	RS18
ATOM	50110	CG	GLU	R	83	192.209	126.107	-71.640	1.00	152.67	RS18
ATOM	50111	CD	GLU	R	83	192.276	125.677	-73.086	1.00	152.67	RS18
ATOM	50112	OE1	GLU	R	83	192.713	124.536	-73.352	1.00	152.67	RS18
ATOM	50113	OE2	GLU	R	83	191.880	126.480	-73.957	1.00	152.67	RS18
ATOM	50114	C	GLU	R	83	195.025	124.202	-69.827	1.00	73.16	RS18
ATOM	50115	O	GLU	R	83	194.914	123.769	-68.679	1.00	73.16	RS18
ATOM	50116	N	LYS	R	84	196.187	124.575	-70.352	1.00	72.80	RS18
ATOM	50117	CA	LYS	R	84	197.414	124.523	-69.578	1.00	72.80	RS18
ATOM	50118	CB	LYS	R	84	198.601	124.188	-70.479	1.00	79.63	RS18
ATOM	50119	CG	LYS	R	84	198.522	122.866	-71.223	1.00	79.63	RS18
ATOM	50120	CD	LYS	R	84	199.853	122.607	-71.929	1.00	79.63	RS18
ATOM	50121	CE	LYS	R	84	199.943	121.217	-72.549	1.00	79.63	RS18
ATOM	50122	NZ	LYS	R	84	201.338	120.941	-73.029	1.00	79.63	RS18
ATOM	50123	C	LYS	R	84	197.597	125.921	-68.997	1.00	72.80	RS18
ATOM	50124	O	LYS	R	84	197.307	126.912	-69.672	1.00	72.80	RS18
ATOM	50125	N	LEU	R	85	198.069	126.008	-67.757	1.00	71.02	RS18
ATOM	50126	CA	LEU	R	85	198.280	127.310	-67.121	1.00	71.02	RS18
ATOM	50127	CB	LEU	R	85	198.265	127.160	-65.598	1.00	78.74	RS18
ATOM	50128	CG	LEU	R	85	198.282	128.463	-64.794	1.00	78.74	RS18
ATOM	50129	CD1	LEU	R	85	197.281	129.464	-65.388	1.00	78.74	RS18
ATOM	50130	CD2	LEU	R	85	197.955	128.153	-63.333	1.00	78.74	RS18
ATOM	50131	C	LEU	R	85	199.594	127.951	-67.575	1.00	71.02	RS18
ATOM	50132	O	LEU	R	85	200.666	127.368	-67.418	1.00	71.02	RS18
ATOM	50133	N	VAL	R	86	199.508	129.163	-68.115	1.00	68.24	RS18
ATOM	50134	CA	VAL	R	86	200.688	129.852	-68.627	1.00	68.24	RS18
ATOM	50135	CB	VAL	R	86	200.363	130.503	-69.976	1.00	44.56	RS18
ATOM	50136	CG1	VAL	R	86	201.610	131.155	-70.553	1.00	44.56	RS18
ATOM	50137	CG2	VAL	R	86	199.811	129.449	-70.929	1.00	44.56	RS18
ATOM	50138	C	VAL	R	86	201.351	130.899	-67.726	1.00	68.24	RS18
ATOM	50139	O	VAL	R	86	201.146	132.098	-67.889	1.00	68.24	RS18
ATOM	50140	N	ARG	R	87	202.176	130.426	-66.798	1.00	167.80	RS18
ATOM	50141	CA	ARG	R	87	202.902	131.277	-65.857	1.00	167.80	RS18
ATOM	50142	CB	ARG	R	87	201.940	132.125	-65.026	1.00	128.85	RS18
ATOM	50143	CG	ARG	R	87	201.760	133.531	-65.532	1.00	128.85	RS18
ATOM	50144	CD	ARG	R	87	203.060	134.307	-65.490	1.00	128.85	RS18
ATOM	50145	NE	ARG	R	87	202.871	135.650	-66.025	1.00	128.85	RS18
ATOM	50146	CZ	ARG	R	87	202.487	135.903	-67.272	1.00	128.85	RS18
ATOM	50147	NH1	ARG	R	87	202.256	134.902	-68.113	1.00	128.85	RS18
ATOM	50148	NH2	ARG	R	87	202.325	137.155	-67.677	1.00	128.85	RS18
ATOM	50149	C	ARG	R	87	203.686	130.372	-64.926	1.00	167.80	RS18
ATOM	50150	O	ARG	R	87	204.608	129.681	-65.351	1.00	167.80	RS18
ATOM	50151	N	LYS	R	88	203.308	130.378	-63.652	1.00	114.60	RS18
ATOM	50152	CA	LYS	R	88	203.957	129.538	-62.653	1.00	114.60	RS18
ATOM	50153	CB	LYS	R	88	203.616	128.067	-62.931	1.00	89.39	RS18
ATOM	50154	CG	LYS	R	88	203.789	127.145	-61.741	1.00	89.39	RS18
ATOM	50155	CD	LYS	R	88	203.403	125.714	-62.093	1.00	89.39	RS18
ATOM	50156	CE	LYS	R	88	203.517	124.783	-60.882	1.00	89.39	RS18
ATOM	50157	NZ	LYS	R	88	203.206	123.335	-61.151	1.00	89.39	RS18
ATOM	50158	C	LYS	R	88	205.477	129.754	-62.647	1.00	114.60	RS18
ATOM	50159	O	LYS	R	88	205.934	130.756	-63.243	1.00	114.60	RS18
ATOM	50160	OXT	LYS	R	88	206.191	128.934	-62.031	1.00	118.36	RS18
TER	50160		LYS	R	88						RS18
ATOM	50161	CB	PRO	S	2	254.972	114.093	14.608	1.00	102.60	SS19
ATOM	50162	CG	PRO	S	2	254.169	113.048	13.841	1.00	102.60	SS19
ATOM	50163	C	PRO	S	2	254.427	113.664	17.027	1.00	118.60	SS19
ATOM	50164	O	PRO	S	2	253.716	114.669	16.981	1.00	118.60	SS19
ATOM	50165	N	PRO	S	2	255.346	111.887	15.515	1.00	118.60	SS19
ATOM	50166	CD	PRO	S	2	254.893	111.718	14.121	1.00	102.60	SS19
ATOM	50167	CA	PRO	S	2	255.368	113.327	15.867	1.00	118.60	SS19
ATOM	50168	N	ARG	S	3	254.429	112.820	18.059	1.00	197.98	SS19
ATOM	50169	CA	ARG	S	3	253.578	113.007	19.241	1.00	197.98	SS19
ATOM	50170	CB	ARG	S	3	253.495	111.697	20.032	1.00	166.01	SS19
ATOM	50171	CG	ARG	S	3	253.159	110.476	19.188	1.00	166.01	SS19
ATOM	50172	CD	ARG	S	3	253.318	109.192	19.993	1.00	166.01	SS19
ATOM	50173	NE	ARG	S	3	253.174	107.996	19.164	1.00	166.01	SS19
ATOM	50174	CZ	ARG	S	3	253.286	106.749	19.616	1.00	166.01	SS19
ATOM	50175	NH1	ARG	S	3	253.546	106.523	20.898	1.00	166.01	SS19
ATOM	50176	NH2	ARG	S	3	253.140	105.725	18.785	1.00	166.01	SS19
ATOM	50177	C	ARG	S	3	254.148	114.115	20.135	1.00	197.98	SS19
ATOM	50178	O	ARG	S	3	255.216	114.655	19.832	1.00	197.98	SS19



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ATOM	50179	N	SER	S	4	253.455	114.451	21.230	1.00	84.07	SS19
ATOM	50180	CA	SER	S	4	253.939	115.511	22.121	1.00	84.07	SS19
ATOM	50181	CB	SER	S	4	254.129	116.798	21.327	1.00	108.75	SS19
ATOM	50182	OG	SER	S	4	252.879	117.242	20.843	1.00	108.75	SS19
ATOM	50183	C	SER	S	4	253.105	115.859	23.352	1.00	84.07	SS19
ATOM	50184	O	SER	S	4	251.891	116.023	23.273	1.00	84.07	SS19
ATOM	50185	N	LEU	S	5	253.789	116.001	24.483	1.00	102.10	SS19
ATOM	50186	CA	LEU	S	5	253.154	116.383	25.733	1.00	102.10	SS19
ATOM	50187	CB	LEU	S	5	253.378	115.325	26.814	1.00	112.77	SS19
ATOM	50188	CG	LEU	S	5	252.315	114.223	26.805	1.00	112.77	SS19
ATOM	50189	CD1	LEU	S	5	252.544	113.239	27.953	1.00	112.77	SS19
ATOM	50190	CD2	LEU	S	5	250.943	114.878	26.923	1.00	112.77	SS19
ATOM	50191	C	LEU	S	5	253.721	117.725	26.174	1.00	102.10	SS19
ATOM	50192	O	LEU	S	5	252.966	118.685	26.286	1.00	102.10	SS19
ATOM	50193	N	LYS	S	6	255.039	117.782	26.405	1.00	94.21	SS19
ATOM	50194	CA	LYS	S	6	255.768	119.003	26.814	1.00	94.21	SS19
ATOM	50195	CB	LYS	S	6	254.815	120.069	27.380	1.00	91.94	SS19
ATOM	50196	CG	LYS	S	6	254.301	121.066	26.355	1.00	91.94	SS19
ATOM	50197	CD	LYS	S	6	253.210	121.966	26.930	1.00	91.94	SS19
ATOM	50198	CE	LYS	S	6	251.887	121.236	27.154	1.00	91.94	SS19
ATOM	50199	NZ	LYS	S	6	250.807	122.172	27.625	1.00	91.94	SS19
ATOM	50200	C	LYS	S	6	256.881	118.773	27.841	1.00	94.21	SS19
ATOM	50201	O	LYS	S	6	258.054	118.586	27.492	1.00	94.21	SS19
ATOM	50202	N	LYS	S	7	256.485	118.824	29.111	1.00	98.17	SS19
ATOM	50203	CA	LYS	S	7	257.378	118.638	30.251	1.00	98.17	SS19
ATOM	50204	CB	LYS	S	7	258.030	119.974	30.620	1.00	65.68	SS19
ATOM	50205	CG	LYS	S	7	257.063	120.998	31.185	1.00	65.68	SS19
ATOM	50206	CD	LYS	S	7	257.747	122.328	31.377	1.00	65.68	SS19
ATOM	50207	CE	LYS	S	7	258.020	122.999	30.039	1.00	65.68	SS19
ATOM	50208	NZ	LYS	S	7	256.755	123.471	29.393	1.00	65.68	SS19
ATOM	50209	C	LYS	S	7	256.565	118.092	31.439	1.00	98.17	SS19
ATOM	50210	O	LYS	S	7	255.900	118.839	32.163	1.00	98.17	SS19
ATOM	50211	N	GLY	S	8	256.614	116.774	31.616	1.00	80.16	SS19
ATOM	50212	CA	GLY	S	8	255.883	116.140	32.699	1.00	80.16	SS19
ATOM	50213	C	GLY	S	8	255.201	114.838	32.300	1.00	80.16	SS19
ATOM	50214	O	GLY	S	8	254.023	114.652	32.608	1.00	80.16	SS19
ATOM	50215	N	VAL	S	9	255.933	113.953	31.615	1.00	75.27	SS19
ATOM	50216	CA	VAL	S	9	255.428	112.644	31.166	1.00	75.27	SS19
ATOM	50217	CB	VAL	S	9	256.527	111.577	31.261	1.00	72.19	SS19
ATOM	50218	CG1	VAL	S	9	255.992	110.235	30.772	1.00	72.19	SS19
ATOM	50219	CG2	VAL	S	9	257.755	112.027	30.481	1.00	72.19	SS19
ATOM	50220	C	VAL	S	9	254.261	112.157	32.015	1.00	75.27	SS19
ATOM	50221	O	VAL	S	9	254.469	111.650	33.114	1.00	75.27	SS19
ATOM	50222	N	PHE	S	10	253.039	112.268	31.506	1.00	76.17	SS19
ATOM	50223	CA	PHE	S	10	251.880	111.869	32.300	1.00	76.17	SS19
ATOM	50224	CB	PHE	S	10	250.601	112.422	31.687	1.00	95.05	SS19
ATOM	50225	CG	PHE	S	10	249.402	112.246	32.569	1.00	95.05	SS19
ATOM	50226	CD1	PHE	S	10	249.046	113.229	33.483	1.00	95.05	SS19
ATOM	50227	CD2	PHE	S	10	248.657	111.073	32.524	1.00	95.05	SS19
ATOM	50228	CE1	PHE	S	10	247.964	113.046	34.341	1.00	95.05	SS19
ATOM	50229	CE2	PHE	S	10	247.578	110.885	33.378	1.00	95.05	SS19
ATOM	50230	CZ	PHE	S	10	247.231	111.872	34.287	1.00	95.05	SS19
ATOM	50231	C	PHE	S	10	251.660	110.385	32.599	1.00	76.17	SS19
ATOM	50232	O	PHE	S	10	251.867	109.514	31.755	1.00	76.17	SS19
ATOM	50233	N	VAL	S	11	251.209	110.124	33.822	1.00	82.41	SS19
ATOM	50234	CA	VAL	S	11	250.913	108.777	34.295	1.00	82.41	SS19
ATOM	50235	CB	VAL	S	11	252.180	108.040	34.798	1.00	80.62	SS19
ATOM	50236	CG1	VAL	S	11	251.805	106.656	35.313	1.00	80.62	SS19
ATOM	50237	CG2	VAL	S	11	253.204	107.926	33.686	1.00	80.62	SS19
ATOM	50238	C	VAL	S	11	249.951	108.877	35.475	1.00	82.41	SS19
ATOM	50239	O	VAL	S	11	250.324	109.384	36.535	1.00	82.41	SS19
ATOM	50240	N	ASP	S	12	248.713	108.420	35.299	1.00	120.06	SS19
ATOM	50241	CA	ASP	S	12	247.765	108.453	36.407	1.00	120.06	SS19
ATOM	50242	CB	ASP	S	12	246.413	107.842	36.019	1.00	182.65	SS19
ATOM	50243	CG	ASP	S	12	245.609	108.726	35.078	1.00	182.65	SS19
ATOM	50244	OD1	ASP	S	12	245.868	108.698	33.857	1.00	182.65	SS19
ATOM	50245	OD2	ASP	S	12	244.716	109.454	35.562	1.00	182.65	SS19
ATOM	50246	C	ASP	S	12	248.426	107.588	37.470	1.00	120.06	SS19
ATOM	50247	O	ASP	S	12	248.938	106.511	37.160	1.00	120.06	SS19
ATOM	50248	N	ASP	S	13	248.425	108.049	38.716	1.00	76.72	SS19
ATOM	50249	CA	ASP	S	13	249.065	107.289	39.781	1.00	76.73	SS19
ATOM	50250	CB	ASP	S	13	249.684	108.244	40.797	1.00	100.16	SS19
ATOM	50251	CG	ASP	S	13	248.770	109.381	41.142	1.00	100.48	SS19
ATOM	50252	OD1	ASP	S	13	249.266	110.381	41.704	1.00	101.18	SS19
ATOM	50253	OD2	ASP	S	13	247.558	109.271	40.852	1.00	101.08	SS19
ATOM	50254	C	ASP	S	13	248.194	106.256	40.486	1.00	76.73	SS19
ATOM	50255	O	ASP	S	13	248.395	105.966	41.661	1.00	76.73	SS19



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ATOM	50256	N	HIS	S	14	247.220	105.706	39.771	1.00122.89	SS19
ATOM	50257	CA	HIS	S	14	246.379	104.667	40.347	1.00122.94	SS19
ATOM	50258	CB	HIS	S	14	245.136	104.412	39.494	1.00143.33	SS19
ATOM	50259	CG	HIS	S	14	244.433	105.656	39.064	1.00143.46	SS19
ATOM	50260	CD2	HIS	S	14	244.077	106.097	37.835	1.00144.03	SS19
ATOM	50261	ND1	HIS	S	14	244.017	106.621	39.954	1.00144.25	SS19
ATOM	50262	CE1	HIS	S	14	243.434	107.605	39.292	1.00144.19	SS19
ATOM	50263	NE2	HIS	S	14	243.458	107.311	38.004	1.00143.90	SS19
ATOM	50264	C	HIS	S	14	247.292	103.468	40.231	1.00122.90	SS19
ATOM	50265	O	HIS	S	14	247.511	102.729	41.186	1.00122.96	SS19
ATOM	50266	N	LEU	S	15	247.831	103.304	39.029	1.00124.75	SS19
ATOM	50267	CA	LEU	S	15	248.736	102.215	38.726	1.00124.78	SS19
ATOM	50268	CB	LEU	S	15	248.635	101.844	37.240	1.00113.88	SS19
ATOM	50269	CG	LEU	S	15	248.660	102.941	36.164	1.00113.93	SS19
ATOM	50270	CD1	LEU	S	15	249.887	103.830	36.279	1.00114.05	SS19
ATOM	50271	CD2	LEU	S	15	248.644	102.270	34.809	1.00114.06	SS19
ATOM	50272	C	LEU	S	15	250.175	102.576	39.070	1.00124.70	SS19
ATOM	50273	O	LEU	S	15	250.998	101.699	39.315	1.00124.71	SS19
ATOM	50274	N	LEU	S	16	250.479	103.868	39.098	1.00103.96	SS19
ATOM	50275	CA	LEU	S	16	251.840	104.290	39.391	1.00103.98	SS19
ATOM	50276	CB	LEU	S	16	251.993	105.800	39.191	1.00123.50	SS19
ATOM	50277	CG	LEU	S	16	253.434	106.313	39.089	1.00123.54	SS19
ATOM	50278	CD1	LEU	S	16	254.230	105.438	38.120	1.00123.82	SS19
ATOM	50279	CD2	LEU	S	16	253.425	107.770	38.625	1.00123.83	SS19
ATOM	50280	C	LEU	S	16	252.249	103.902	40.801	1.00103.96	SS19
ATOM	50281	O	LEU	S	16	253.123	103.058	40.981	1.00104.00	SS19
ATOM	50282	N	GLU	S	17	251.620	104.503	41.804	1.00119.10	SS19
ATOM	50283	CA	GLU	S	17	251.962	104.166	43.177	1.00119.16	SS19
ATOM	50284	CB	GLU	S	17	251.291	105.137	44.158	1.00130.46	SS19
ATOM	50285	CG	GLU	S	17	249.769	105.122	44.153	1.00130.72	SS19
ATOM	50286	CD	GLU	S	17	249.169	106.185	45.070	1.00130.66	SS19
ATOM	50287	OE1	GLU	S	17	247.932	106.194	45.255	1.00131.25	SS19
ATOM	50288	OE2	GLU	S	17	249.936	107.016	45.604	1.00131.46	SS19
ATOM	50289	C	GLU	S	17	251.562	102.722	43.480	1.00119.15	SS19
ATOM	50290	O	GLU	S	17	251.792	102.228	44.581	1.00119.24	SS19
ATOM	50291	N	LYS	S	18	250.978	102.048	42.489	1.00 85.54	SS19
ATOM	50292	CA	LYS	S	18	250.552	100.651	42.625	1.00 85.56	SS19
ATOM	50293	CB	LYS	S	18	249.116	100.468	42.124	1.00115.95	SS19
ATOM	50294	CG	LYS	S	18	248.656	99.010	42.103	1.00116.07	SS19
ATOM	50295	CD	LYS	S	18	247.413	98.799	41.236	1.00117.02	SS19
ATOM	50296	CE	LYS	S	18	246.201	99.556	41.766	1.00117.68	SS19
ATOM	50297	NZ	LYS	S	18	244.963	99.252	40.993	1.00118.59	SS19
ATOM	50298	C	LYS	S	18	251.462	99.725	41.824	1.00 85.56	SS19
ATOM	50299	O	LYS	S	18	251.439	98.506	42.004	1.00 85.60	SS19
ATOM	50300	N	VAL	S	19	252.247	100.306	40.923	1.00120.84	SS19
ATOM	50301	CA	VAL	S	19	253.159	99.519	40.107	1.00120.88	SS19
ATOM	50302	CB	VAL	S	19	253.511	100.230	38.768	1.00107.86	SS19
ATOM	50303	CG1	VAL	S	19	254.189	101.567	39.030	1.00108.26	SS19
ATOM	50304	CG2	VAL	S	19	254.421	99.338	37.934	1.00108.22	SS19
ATOM	50305	C	VAL	S	19	254.431	99.303	40.898	1.00120.88	SS19
ATOM	50306	O	VAL	S	19	255.023	98.225	40.860	1.00120.92	SS19
ATOM	50307	N	LEU	S	20	254.832	100.338	41.629	1.00118.58	SS19
ATOM	50308	CA	LEU	S	20	256.039	100.286	42.436	1.00118.62	SS19
ATOM	50309	CB	LEU	S	20	256.641	101.689	42.550	1.00 75.54	SS19
ATOM	50310	CG	LEU	S	20	255.661	102.862	42.593	1.00 76.41	SS19
ATOM	50311	CD1	LEU	S	20	254.857	102.815	43.892	1.00 77.06	SS19
ATOM	50312	CD2	LEU	S	20	256.435	104.172	42.468	1.00 77.12	SS19
ATOM	50313	C	LEU	S	20	255.825	99.660	43.815	1.00118.60	SS19
ATOM	50314	O	LEU	S	20	256.769	99.145	44.420	1.00118.65	SS19
ATOM	50315	N	GLU	S	21	254.591	99.693	44.315	1.00104.47	SS19
ATOM	50316	CA	GLU	S	21	254.305	99.072	45.604	1.00104.50	SS19
ATOM	50317	CB	GLU	S	21	252.844	99.264	46.004	1.00168.41	SS19
ATOM	50318	CG	GLU	S	21	252.564	100.521	46.791	1.00168.90	SS19
ATOM	50319	CD	GLU	S	21	251.250	100.435	47.538	1.00169.76	SS19
ATOM	50320	OE1	GLU	S	21	251.115	99.530	48.388	1.00170.54	SS19
ATOM	50321	OE2	GLU	S	21	250.352	101.262	47.277	1.00170.26	SS19
ATOM	50322	C	GLU	S	21	254.578	97.584	45.441	1.00104.50	SS19
ATOM	50323	O	GLU	S	21	254.490	96.810	46.392	1.00104.56	SS19
ATOM	50324	N	LEU	S	22	254.897	97.200	44.211	1.00116.87	SS19
ATOM	50325	CA	LEU	S	22	255.190	95.819	43.869	1.00116.91	SS19
ATOM	50326	CB	LEU	S	22	254.408	95.426	42.622	1.00 96.55	SS19
ATOM	50327	CG	LEU	S	22	252.919	95.739	42.759	1.00 96.77	SS19
ATOM	50328	CD1	LEU	S	22	252.227	95.575	41.424	1.00 97.68	SS19
ATOM	50329	CD2	LEU	S	22	252.310	94.833	43.821	1.00 97.31	SS19
ATOM	50330	C	LEU	S	22	256.678	95.722	43.604	1.00116.92	SS19
ATOM	50331	O	LEU	S	22	257.287	94.667	43.789	1.00116.99	SS19
ATOM	50332	N	ASN	S	23	257.256	96.838	43.168	1.00144.65	SS19



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ATOM	50333	CA	ASN	S	23	258.682	96.905	42.885	1.00144.69	SS19
ATOM	50334	CB	ASN	S	23	259.028	98.202	42.145	1.00 98.72	SS19
ATOM	50335	CG	ASN	S	23	258.334	98.305	40.791	1.00 98.76	SS19
ATOM	50336	OD1	ASN	S	23	258.051	97.288	40.147	1.00 98.92	SS19
ATOM	50337	ND2	ASN	S	23	258.072	99.535	40.345	1.00 98.73	SS19
ATOM	50338	C	ASN	S	23	259.442	96.829	44.198	1.00144.73	SS19
ATOM	50339	O	ASN	S	23	260.667	96.927	44.229	1.00144.79	SS19
ATOM	50340	N	ALA	S	24	258.697	96.663	45.285	1.00132.47	SS19
ATOM	50341	CA	ALA	S	24	259.287	96.538	46.608	1.00132.54	SS19
ATOM	50342	CB	ALA	S	24	258.326	97.085	47.677	1.00 28.64	SS19
ATOM	50343	C	ALA	S	24	259.546	95.047	46.823	1.00132.62	SS19
ATOM	50344	O	ALA	S	24	260.674	94.635	47.086	1.00132.69	SS19
ATOM	50345	N	LYS	S	25	258.497	94.240	46.687	1.00111.30	SS19
ATOM	50346	CA	LYS	S	25	258.617	92.796	46.855	1.00111.41	SS19
ATOM	50347	CB	LYS	S	25	257.323	92.197	47.422	1.00110.01	SS19
ATOM	50348	CG	LYS	S	25	256.567	93.098	48.386	1.00110.64	SS19
ATOM	50349	CD	LYS	S	25	255.702	94.111	47.635	1.00111.49	SS19
ATOM	50350	CE	LYS	S	25	255.018	95.094	48.580	1.00112.32	SS19
ATOM	50351	NZ	LYS	S	25	255.983	96.050	49.197	1.00113.28	SS19
ATOM	50352	C	LYS	S	25	258.904	92.176	45.490	1.00111.40	SS19
ATOM	50353	O	LYS	S	25	258.565	91.018	45.232	1.00111.52	SS19
ATOM	50354	N	GLY	S	26	259.522	92.962	44.615	1.00189.33	SS19
ATOM	50355	CA	GLY	S	26	259.846	92.474	43.288	1.00189.43	SS19
ATOM	50356	C	GLY	S	26	258.801	92.826	42.249	1.00189.49	SS19
ATOM	50357	O	GLY	S	26	258.780	93.943	41.730	1.00189.61	SS19
ATOM	50358	N	GLU	S	27	257.928	91.871	41.945	1.00157.38	SS19
ATOM	50359	CA	GLU	S	27	256.877	92.077	40.955	1.00157.38	SS19
ATOM	50360	CB	GLU	S	27	257.155	91.229	39.709	1.00172.49	SS19
ATOM	50361	CG	GLU	S	27	258.551	91.397	39.124	1.00172.49	SS19
ATOM	50362	CD	GLU	S	27	258.779	92.774	38.537	1.00172.49	SS19
ATOM	50363	OE1	GLU	S	27	258.075	93.127	37.570	1.00172.49	SS19
ATOM	50364	OE2	GLU	S	27	259.660	93.503	39.040	1.00172.49	SS19
ATOM	50365	C	GLU	S	27	255.533	91.674	41.543	1.00157.38	SS19
ATOM	50366	O	GLU	S	27	255.351	91.671	42.760	1.00157.38	SS19
ATOM	50367	N	LYS	S	28	254.596	91.345	40.661	1.00129.14	SS19
ATOM	50368	CA	LYS	S	28	253.261	90.906	41.049	1.00129.14	SS19
ATOM	50369	CB	LYS	S	28	252.426	92.053	41.625	1.00130.21	SS19
ATOM	50370	CG	LYS	S	28	251.028	91.604	42.085	1.00130.21	SS19
ATOM	50371	CD	LYS	S	28	250.162	92.765	42.561	1.00130.21	SS19
ATOM	50372	CE	LYS	S	28	248.813	92.285	43.071	1.00130.21	SS19
ATOM	50373	NZ	LYS	S	28	247.947	93.433	43.445	1.00130.21	SS19
ATOM	50374	C	LYS	S	28	252.557	90.358	39.823	1.00129.14	SS19
ATOM	50375	O	LYS	S	28	252.671	90.912	38.731	1.00129.14	SS19
ATOM	50376	N	ARG	S	29	251.820	89.273	40.012	1.00167.42	SS19
ATOM	50377	CA	ARG	S	29	251.104	88.643	38.917	1.00167.42	SS19
ATOM	50378	CB	ARG	S	29	250.875	87.169	39.251	1.00160.25	SS19
ATOM	50379	CG	ARG	S	29	252.176	86.446	39.572	1.00160.25	SS19
ATOM	50380	CD	ARG	S	29	251.937	85.088	40.198	1.00160.25	SS19
ATOM	50381	NE	ARG	S	29	253.166	84.542	40.765	1.00160.25	SS19
ATOM	50382	CZ	ARG	S	29	253.227	83.432	41.494	1.00160.25	SS19
ATOM	50383	NH1	ARG	S	29	252.125	82.739	41.748	1.00160.25	SS19
ATOM	50384	NH2	ARG	S	29	254.390	83.019	41.978	1.00160.25	SS19
ATOM	50385	C	ARG	S	29	249.783	89.349	38.603	1.00167.42	SS19
ATOM	50386	O	ARG	S	29	248.765	89.124	39.260	1.00167.42	SS19
ATOM	50387	N	LEU	S	30	249.837	90.214	37.590	1.00101.06	SS19
ATOM	50388	CA	LEU	S	30	248.701	90.997	37.098	1.00101.06	SS19
ATOM	50389	CB	LEU	S	30	247.440	90.139	36.977	1.00 81.80	SS19
ATOM	50390	CG	LEU	S	30	247.284	89.426	35.632	1.00 81.80	SS19
ATOM	50391	CD1	LEU	S	30	245.942	88.687	35.603	1.00 81.80	SS19
ATOM	50392	CD2	LEU	S	30	247.377	90.447	34.497	1.00 81.80	SS19
ATOM	50393	C	LEU	S	30	248.340	92.276	37.825	1.00101.06	SS19
ATOM	50394	O	LEU	S	30	248.605	92.460	39.008	1.00101.06	SS19
ATOM	50395	N	ILE	S	31	247.721	93.156	37.057	1.00115.37	SS19
ATOM	50396	CA	ILE	S	31	247.264	94.457	37.500	1.00115.37	SS19
ATOM	50397	CB	ILE	S	31	248.378	95.520	37.381	1.00 97.35	SS19
ATOM	50398	CG2	ILE	S	31	247.803	96.912	37.572	1.00 97.35	SS19
ATOM	50399	CG1	ILE	S	31	249.478	95.237	38.403	1.00 97.35	SS19
ATOM	50400	CD1	ILE	S	31	248.995	95.227	39.842	1.00 97.35	SS19
ATOM	50401	C	ILE	S	31	246.203	94.745	36.462	1.00115.37	SS19
ATOM	50402	O	ILE	S	31	246.247	94.179	35.373	1.00115.37	SS19
ATOM	50403	N	LYS	S	32	245.242	95.597	36.783	1.00107.44	SS19
ATOM	50404	CA	LYS	S	32	244.204	95.914	35.818	1.00107.44	SS19
ATOM	50405	CB	LYS	S	32	243.038	94.933	35.942	1.00112.13	SS19
ATOM	50406	CG	LYS	S	32	242.465	94.795	37.339	1.00112.13	SS19
ATOM	50407	CD	LYS	S	32	241.213	93.933	37.316	1.00112.13	SS19
ATOM	50408	CE	LYS	S	32	241.491	92.563	36.708	1.00112.13	SS19
ATOM	50409	NZ	LYS	S	32	240.235	91.789	36.499	1.00112.13	SS19



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ATOM	50410	C	LYS	S	32	243.710	97.329	36.008	1.00107.44	SS19
ATOM	50411	O	LYS	S	32	242.884	97.593	36.878	1.00107.44	SS19
ATOM	50412	N	THR	S	33	244.222	98.243	35.191	1.00 84.89	SS19
ATOM	50413	CA	THR	S	33	243.810	99.627	35.300	1.00 84.89	SS19
ATOM	50414	CB	THR	S	33	245.023	100.581	35.330	1.00110.74	SS19
ATOM	50415	OG1	THR	S	33	246.040	100.036	36.180	1.00110.74	SS19
ATOM	50416	CG2	THR	S	33	244.614	101.938	35.889	1.00110.74	SS19
ATOM	50417	C	THR	S	33	242.894	100.024	34.153	1.00 84.89	SS19
ATOM	50418	O	THR	S	33	242.862	99.387	33.102	1.00 84.89	SS19
ATOM	50419	N	TRP	S	34	242.122	101.070	34.400	1.00116.24	SS19
ATOM	50420	CA	TRP	S	34	241.206	101.615	33.423	1.00116.24	SS19
ATOM	50421	CB	TRP	S	34	239.936	102.108	34.116	1.00 94.93	SS19
ATOM	50422	CG	TRP	S	34	238.845	101.086	34.229	1.00 94.93	SS19
ATOM	50423	CD2	TRP	S	34	238.815	99.945	35.095	1.00 94.93	SS19
ATOM	50424	CE2	TRP	S	34	237.591	99.280	34.867	1.00 94.93	SS19
ATOM	50425	CE3	TRP	S	34	239.702	99.420	36.043	1.00 94.93	SS19
ATOM	50426	CD1	TRP	S	34	237.673	101.066	33.531	1.00 94.93	SS19
ATOM	50427	NE1	TRP	S	34	236.914	99.986	33.908	1.00 94.93	SS19
ATOM	50428	CZ2	TRP	S	34	237.228	98.114	35.552	1.00 94.93	SS19
ATOM	50429	CZ3	TRP	S	34	239.341	98.257	36.726	1.00 94.93	SS19
ATOM	50430	CH2	TRP	S	34	238.114	97.619	36.476	1.00 94.93	SS19
ATOM	50431	C	TRP	S	34	241.948	102.799	32.831	1.00116.24	SS19
ATOM	50432	O	TRP	S	34	241.459	103.468	31.925	1.00116.24	SS19
ATOM	50433	N	SER	S	35	243.143	103.050	33.354	1.00107.08	SS19
ATOM	50434	CA	SER	S	35	243.943	104.177	32.902	1.00107.08	SS19
ATOM	50435	CB	SER	S	35	244.835	104.683	34.037	1.00136.38	SS19
ATOM	50436	OG	SER	S	35	245.592	105.808	33.624	1.00136.38	SS19
ATOM	50437	C	SER	S	35	244.798	103.875	31.691	1.00107.08	SS19
ATOM	50438	O	SER	S	35	245.989	103.591	31.813	1.00107.08	SS19
ATOM	50439	N	ARG	S	36	244.187	103.935	30.515	1.00 75.18	SS19
ATOM	50440	CA	ARG	S	36	244.931	103.698	29.295	1.00 75.18	SS19
ATOM	50441	CB	ARG	S	36	244.006	103.107	28.220	1.00 59.03	SS19
ATOM	50442	CG	ARG	S	36	243.071	104.081	27.529	1.00 59.03	SS19
ATOM	50443	CD	ARG	S	36	241.765	103.391	27.118	1.00 59.03	SS19
ATOM	50444	NE	ARG	S	36	241.957	102.017	26.646	1.00 59.03	SS19
ATOM	50445	CZ	ARG	S	36	242.212	101.664	25.384	1.00 59.03	SS19
ATOM	50446	NH1	ARG	S	36	242.307	102.591	24.434	1.00 59.03	SS19
ATOM	50447	NH2	ARG	S	36	242.373	100.377	25.074	1.00 59.03	SS19
ATOM	50448	C	ARG	S	36	245.525	105.049	28.874	1.00 75.18	SS19
ATOM	50449	O	ARG	S	36	246.291	105.139	27.923	1.00 75.18	SS19
ATOM	50450	N	ARG	S	37	245.179	106.088	29.631	1.00 81.54	SS19
ATOM	50451	CA	ARG	S	37	245.645	107.458	29.401	1.00 81.54	SS19
ATOM	50452	CB	ARG	S	37	244.853	108.430	30.292	1.00180.83	SS19
ATOM	50453	CG	ARG	S	37	243.359	108.489	30.036	1.00180.83	SS19
ATOM	50454	CD	ARG	S	37	243.061	109.318	28.801	1.00180.83	SS19
ATOM	50455	NE	ARG	S	37	241.664	109.225	28.387	1.00180.83	SS19
ATOM	50456	CZ	ARG	S	37	241.161	109.828	27.312	1.00180.83	SS19
ATOM	50457	NH1	ARG	S	37	241.940	110.575	26.539	1.00180.83	SS19
ATOM	50458	NH2	ARG	S	37	239.880	109.673	27.000	1.00180.83	SS19
ATOM	50459	C	ARG	S	37	247.134	107.621	29.733	1.00 81.54	SS19
ATOM	50460	O	ARG	S	37	247.841	108.439	29.129	1.00 81.54	SS19
ATOM	50461	N	SER	S	38	247.589	106.840	30.708	1.00119.13	SS19
ATOM	50462	CA	SER	S	38	248.961	106.893	31.208	1.00119.13	SS19
ATOM	50463	CB	SER	S	38	249.067	106.053	32.485	1.00 94.56	SS19
ATOM	50464	OG	SER	S	38	248.606	104.730	32.260	1.00 94.56	SS19
ATOM	50465	C	SER	S	38	250.080	106.495	30.257	1.00119.13	SS19
ATOM	50466	O	SER	S	38	249.923	105.599	29.428	1.00119.13	SS19
ATOM	50467	N	THR	S	39	251.213	107.179	30.404	1.00 86.18	SS19
ATOM	50468	CA	THR	S	39	252.411	106.928	29.609	1.00 86.18	SS19
ATOM	50469	CB	THR	S	39	253.351	108.144	29.604	1.00106.85	SS19
ATOM	50470	OG1	THR	S	39	252.671	109.283	29.063	1.00106.85	SS19
ATOM	50471	CG2	THR	S	39	254.592	107.846	28.782	1.00106.85	SS19
ATOM	50472	C	THR	S	39	253.151	105.803	30.307	1.00 86.18	SS19
ATOM	50473	O	THR	S	39	253.004	105.639	31.512	1.00 86.18	SS19
ATOM	50474	N	ILE	S	40	253.941	105.026	29.575	1.00100.54	SS19
ATOM	50475	CA	ILE	S	40	254.683	103.951	30.223	1.00100.54	SS19
ATOM	50476	CB	ILE	S	40	254.658	102.629	29.403	1.00 57.21	SS19
ATOM	50477	CG2	ILE	S	40	255.731	101.671	29.908	1.00 57.21	SS19
ATOM	50478	CG1	ILE	S	40	253.294	101.951	29.549	1.00 57.21	SS19
ATOM	50479	CD1	ILE	S	40	253.258	100.512	29.059	1.00 57.21	SS19
ATOM	50480	C	ILE	S	40	256.128	104.353	30.491	1.00100.54	SS19
ATOM	50481	O	ILE	S	40	256.793	104.960	29.645	1.00100.54	SS19
ATOM	50482	N	VAL	S	41	256.592	104.021	31.694	1.00115.45	SS19
ATOM	50483	CA	VAL	S	41	257.951	104.314	32.130	1.00115.45	SS19
ATOM	50484	CB	VAL	S	41	257.953	105.359	33.280	1.00 97.48	SS19
ATOM	50485	CG1	VAL	S	41	257.593	106.732	32.733	1.00 97.48	SS19
ATOM	50486	CG2	VAL	S	41	256.953	104.960	34.355	1.00 97.48	SS19



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ATOM	50487	C	VAL	S	41	258.623	103.016	32.589	1.00115.45	SS19
ATOM	50488	O	VAL	S	41	257.948	102.026	32.886	1.00115.45	SS19
ATOM	50489	N	PRO	S	42	259.964	103.009	32.653	1.00 93.46	SS19
ATOM	50490	CD	PRO	S	42	260.817	104.201	32.476	1.00 95.22	SS19
ATOM	50491	CA	PRO	S	42	260.770	101.853	33.065	1.00 93.46	SS19
ATOM	50492	CB	PRO	S	42	262.109	102.487	33.422	1.00 95.22	SS19
ATOM	50493	CG	PRO	S	42	262.205	103.606	32.428	1.00 95.22	SS19
ATOM	50494	C	PRO	S	42	260.208	101.000	34.208	1.00 93.46	SS19
ATOM	50495	O	PRO	S	42	260.084	99.780	34.076	1.00 93.46	SS19
ATOM	50496	N	GLU	S	43	259.879	101.641	35.327	1.00 94.22	SS19
ATOM	50497	CA	GLU	S	43	259.344	100.941	36.495	1.00 94.22	SS19
ATOM	50498	CB	GLU	S	43	258.740	101.941	37.492	1.00134.84	SS19
ATOM	50499	CG	GLU	S	43	258.597	103.366	36.970	1.00134.84	SS19
ATOM	50500	CD	GLU	S	43	259.935	104.078	36.810	1.00134.84	SS19
ATOM	50501	OE1	GLU	S	43	260.668	104.197	37.815	1.00134.84	SS19
ATOM	50502	OE2	GLU	S	43	260.254	104.521	35.684	1.00134.84	SS19
ATOM	50503	C	GLU	S	43	258.297	99.896	36.123	1.00 94.22	SS19
ATOM	50504	O	GLU	S	43	258.192	98.848	36.765	1.00 94.22	SS19
ATOM	50505	N	MET	S	44	257.530	100.184	35.077	1.00132.41	SS19
ATOM	50506	CA	MET	S	44	256.489	99.277	34.620	1.00132.41	SS19
ATOM	50507	CB	MET	S	44	255.540	100.008	33.673	1.00121.19	SS19
ATOM	50508	CG	MET	S	44	254.605	100.970	34.372	1.00121.19	SS19
ATOM	50509	SD	MET	S	44	253.552	101.866	33.218	1.00121.19	SS19
ATOM	50510	CE	MET	S	44	254.028	103.554	33.583	1.00121.19	SS19
ATOM	50511	C	MET	S	44	257.034	98.035	33.931	1.00132.41	SS19
ATOM	50512	O	MET	S	44	256.427	96.969	34.007	1.00132.41	SS19
ATOM	50513	N	VAL	S	45	258.176	98.174	33.264	1.00 84.99	SS19
ATOM	50514	CA	VAL	S	45	258.791	97.055	32.555	1.00 84.99	SS19
ATOM	50515	CB	VAL	S	45	260.283	97.342	32.234	1.00 60.82	SS19
ATOM	50516	CG1	VAL	S	45	260.897	96.158	31.493	1.00 60.82	SS19
ATOM	50517	CG2	VAL	S	45	260.406	98.610	31.394	1.00 60.82	SS19
ATOM	50518	C	VAL	S	45	258.700	95.755	33.353	1.00 84.99	SS19
ATOM	50519	O	VAL	S	45	258.586	95.777	34.579	1.00 84.99	SS19
ATOM	50520	N	GLY	S	46	258.741	94.629	32.645	1.00 90.72	SS19
ATOM	50521	CA	GLY	S	46	258.667	93.331	33.292	1.00 90.72	SS19
ATOM	50522	C	GLY	S	46	257.281	92.954	33.787	1.00 90.72	SS19
ATOM	50523	O	GLY	S	46	256.939	91.769	33.824	1.00 90.72	SS19
ATOM	50524	N	HIS	S	47	256.482	93.955	34.159	1.00124.65	SS19
ATOM	50525	CA	HIS	S	47	255.128	93.733	34.672	1.00124.65	SS19
ATOM	50526	CB	HIS	S	47	254.605	94.998	35.355	1.00117.67	SS19
ATOM	50527	CG	HIS	S	47	255.070	95.159	36.769	1.00117.67	SS19
ATOM	50528	CD2	HIS	S	47	255.760	96.155	37.375	1.00117.67	SS19
ATOM	50529	ND1	HIS	S	47	254.814	94.222	37.748	1.00117.67	SS19
ATOM	50530	CE1	HIS	S	47	255.325	94.634	38.894	1.00117.67	SS19
ATOM	50531	NE2	HIS	S	47	255.905	95.805	38.695	1.00117.67	SS19
ATOM	50532	C	HIS	S	47	254.102	93.275	33.642	1.00124.65	SS19
ATOM	50533	O	HIS	S	47	254.404	93.141	32.456	1.00124.65	SS19
ATOM	50534	N	THR	S	48	252.882	93.039	34.116	1.00101.92	SS19
ATOM	50535	CA	THR	S	48	251.787	92.594	33.262	1.00101.92	SS19
ATOM	50536	CB	THR	S	48	251.528	91.085	33.428	1.00 96.95	SS19
ATOM	50537	OG1	THR	S	48	252.737	90.365	33.169	1.00 96.95	SS19
ATOM	50538	CG2	THR	S	48	250.456	90.615	32.461	1.00 96.95	SS19
ATOM	50539	C	THR	S	48	250.511	93.348	33.615	1.00101.92	SS19
ATOM	50540	O	THR	S	48	249.749	92.929	34.486	1.00101.92	SS19
ATOM	50541	N	ILE	S	49	250.284	94.460	32.928	1.00122.30	SS19
ATOM	50542	CA	ILE	S	49	249.107	95.286	33.157	1.00122.30	SS19
ATOM	50543	CB	ILE	S	49	249.433	96.761	32.954	1.00 67.66	SS19
ATOM	50544	CG2	ILE	S	49	248.224	97.606	33.326	1.00 67.66	SS19
ATOM	50545	CG1	ILE	S	49	250.671	97.133	33.768	1.00 67.66	SS19
ATOM	50546	CD1	ILE	S	49	251.288	98.474	33.372	1.00 67.66	SS19
ATOM	50547	C	ILE	S	49	247.980	94.944	32.188	1.00122.30	SS19
ATOM	50548	O	ILE	S	49	248.178	94.949	30.974	1.00122.30	SS19
ATOM	50549	N	ALA	S	50	246.798	94.657	32.723	1.00101.95	SS19
ATOM	50550	CA	ALA	S	50	245.647	94.341	31.885	1.00101.95	SS19
ATOM	50551	CB	ALA	S	50	244.723	93.340	32.593	1.00 58.02	SS19
ATOM	50552	C	ALA	S	50	244.912	95.649	31.613	1.00101.95	SS19
ATOM	50553	O	ALA	S	50	244.556	96.378	32.543	1.00101.95	SS19
ATOM	50554	N	VAL	S	51	244.699	95.951	30.337	1.00 85.75	SS19
ATOM	50555	CA	VAL	S	51	244.020	97.186	29.973	1.00 85.75	SS19
ATOM	50556	CB	VAL	S	51	244.771	97.929	28.848	1.00 72.21	SS19
ATOM	50557	CG1	VAL	S	51	244.414	99.406	28.885	1.00 72.21	SS19
ATOM	50558	CG2	VAL	S	51	246.275	97.734	28.997	1.00 72.21	SS19
ATOM	50559	C	VAL	S	51	242.568	96.959	29.549	1.00 85.75	SS19
ATOM	50560	O	VAL	S	51	242.177	95.859	29.147	1.00 85.75	SS19
ATOM	50561	N	TYR	S	52	241.781	98.024	29.635	1.00 92.43	SS19
ATOM	50562	CA	TYR	S	52	240.362	97.981	29.315	1.00 92.43	SS19
ATOM	50563	CB	TYR	S	52	239.618	98.901	30.303	1.00 74.59	SS19



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ATOM	50564	CG	TYR	S	52	238.149	98.578	30.522	1.00	74.59	SS19
ATOM	50565	CD1	TYR	S	52	237.737	97.275	30.838	1.00	74.59	SS19
ATOM	50566	CE1	TYR	S	52	236.396	96.972	31.029	1.00	74.59	SS19
ATOM	50567	CD2	TYR	S	52	237.169	99.574	30.410	1.00	74.59	SS19
ATOM	50568	CE2	TYR	S	52	235.823	99.278	30.603	1.00	74.59	SS19
ATOM	50569	CZ	TYR	S	52	235.445	97.974	30.909	1.00	74.59	SS19
ATOM	50570	OH	TYR	S	52	234.116	97.666	31.075	1.00	74.59	SS19
ATOM	50571	C	TYR	S	52	240.046	98.373	27.862	1.00	92.43	SS19
ATOM	50572	O	TYR	S	52	240.555	99.372	27.350	1.00	92.43	SS19
ATOM	50573	N	ASN	S	53	239.214	97.569	27.203	1.00	71.90	SS19
ATOM	50574	CA	ASN	S	53	238.801	97.839	25.831	1.00	71.90	SS19
ATOM	50575	CB	ASN	S	53	238.363	96.553	25.140	1.00	75.18	SS19
ATOM	50576	CG	ASN	S	53	239.492	95.587	24.941	1.00	75.18	SS19
ATOM	50577	OD1	ASN	S	53	239.291	94.478	24.443	1.00	75.18	SS19
ATOM	50578	ND2	ASN	S	53	240.696	95.996	25.324	1.00	75.18	SS19
ATOM	50579	C	ASN	S	53	237.589	98.745	25.917	1.00	71.90	SS19
ATOM	50580	O	ASN	S	53	237.253	99.477	24.983	1.00	71.90	SS19
ATOM	50581	N	GLY	S	54	236.946	98.682	27.071	1.00	85.23	SS19
ATOM	50582	CA	GLY	S	54	235.734	99.433	27.312	1.00	85.23	SS19
ATOM	50583	C	GLY	S	54	234.767	98.292	27.522	1.00	85.23	SS19
ATOM	50584	O	GLY	S	54	233.592	98.471	27.849	1.00	85.23	SS19
ATOM	50585	N	LYS	S	55	235.311	97.091	27.339	1.00	70.48	SS19
ATOM	50586	CA	LYS	S	55	234.556	95.861	27.481	1.00	70.48	SS19
ATOM	50587	CB	LYS	S	55	234.163	95.352	26.093	1.00	109.49	SS19
ATOM	50588	CG	LYS	S	55	233.389	94.054	26.093	1.00	109.49	SS19
ATOM	50589	CD	LYS	S	55	233.107	93.600	24.678	1.00	109.49	SS19
ATOM	50590	CE	LYS	S	55	232.359	92.285	24.673	1.00	109.49	SS19
ATOM	50591	NZ	LYS	S	55	232.133	91.809	23.283	1.00	109.49	SS19
ATOM	50592	C	LYS	S	55	235.357	94.787	28.221	1.00	70.48	SS19
ATOM	50593	O	LYS	S	55	234.887	94.223	29.213	1.00	70.48	SS19
ATOM	50594	N	GLN	S	56	236.570	94.519	27.736	1.00	97.83	SS19
ATOM	50595	CA	GLN	S	56	237.437	93.493	28.317	1.00	97.83	SS19
ATOM	50596	CB	GLN	S	56	237.881	92.501	27.239	1.00	119.70	SS19
ATOM	50597	CG	GLN	S	56	236.748	91.920	26.433	1.00	119.70	SS19
ATOM	50598	CD	GLN	S	56	235.758	91.175	27.294	1.00	119.70	SS19
ATOM	50599	OE1	GLN	S	56	236.091	90.152	27.888	1.00	119.70	SS19
ATOM	50600	NE2	GLN	S	56	234.533	91.687	27.375	1.00	119.70	SS19
ATOM	50601	C	GLN	S	56	238.684	94.048	28.977	1.00	97.83	SS19
ATOM	50602	O	GLN	S	56	238.981	95.239	28.883	1.00	97.83	SS19
ATOM	50603	N	HIS	S	57	239.410	93.150	29.637	1.00	117.72	SS19
ATOM	50604	CA	HIS	S	57	240.660	93.466	30.320	1.00	117.72	SS19
ATOM	50605	CB	HIS	S	57	240.530	93.214	31.822	1.00	86.87	SS19
ATOM	50606	CG	HIS	S	57	240.180	94.439	32.601	1.00	86.87	SS19
ATOM	50607	CD2	HIS	S	57	239.016	94.835	33.166	1.00	86.87	SS19
ATOM	50608	ND1	HIS	S	57	241.080	95.459	32.821	1.00	86.87	SS19
ATOM	50609	CE1	HIS	S	57	240.486	96.433	33.488	1.00	86.87	SS19
ATOM	50610	NE2	HIS	S	57	239.232	96.080	33.709	1.00	86.87	SS19
ATOM	50611	C	HIS	S	57	241.757	92.590	29.739	1.00	117.72	SS19
ATOM	50612	O	HIS	S	57	241.999	91.475	30.207	1.00	117.72	SS19
ATOM	50613	N	VAL	S	58	242.414	93.105	28.706	1.00	76.31	SS19
ATOM	50614	CA	VAL	S	58	243.475	92.367	28.042	1.00	76.31	SS19
ATOM	50615	CB	VAL	S	58	243.566	92.740	26.549	1.00	106.13	SS19
ATOM	50616	CG1	VAL	S	58	242.323	92.248	25.818	1.00	106.13	SS19
ATOM	50617	CG2	VAL	S	58	243.718	94.247	26.396	1.00	106.13	SS19
ATOM	50618	C	VAL	S	58	244.844	92.563	28.672	1.00	76.31	SS19
ATOM	50619	O	VAL	S	58	245.305	93.691	28.849	1.00	76.31	SS19
ATOM	50620	N	PRO	S	59	245.506	91.451	29.025	1.00	81.23	SS19
ATOM	50621	CD	PRO	S	59	244.978	90.080	28.895	1.00	60.36	SS19
ATOM	50622	CA	PRO	S	59	246.834	91.427	29.639	1.00	81.23	SS19
ATOM	50623	CB	PRO	S	59	246.989	89.964	30.041	1.00	60.36	SS19
ATOM	50624	CG	PRO	S	59	246.236	89.248	28.969	1.00	60.36	SS19
ATOM	50625	C	PRO	S	59	247.916	91.873	28.655	1.00	81.23	SS19
ATOM	50626	O	PRO	S	59	247.938	91.438	27.503	1.00	81.23	SS19
ATOM	50627	N	VAL	S	60	248.817	92.730	29.118	1.00	145.42	SS19
ATOM	50628	CA	VAL	S	60	249.892	93.232	28.273	1.00	145.42	SS19
ATOM	50629	CB	VAL	S	60	249.632	94.708	27.890	1.00	53.65	SS19
ATOM	50630	CG1	VAL	S	60	250.756	95.233	27.028	1.00	53.65	SS19
ATOM	50631	CG2	VAL	S	60	248.320	94.826	27.155	1.00	53.65	SS19
ATOM	50632	C	VAL	S	60	251.260	93.130	28.956	1.00	145.42	SS19
ATOM	50633	O	VAL	S	60	251.502	93.778	29.975	1.00	145.42	SS19
ATOM	50634	N	TYR	S	61	252.147	92.306	28.402	1.00	128.07	SS19
ATOM	50635	CA	TYR	S	61	253.487	92.160	28.961	1.00	128.07	SS19
ATOM	50636	CB	TYR	S	61	254.167	90.902	28.417	1.00	124.63	SS19
ATOM	50637	CG	TYR	S	61	255.522	90.618	29.032	1.00	124.63	SS19
ATOM	50638	CD1	TYR	S	61	255.689	89.583	29.956	1.00	124.63	SS19
ATOM	50639	CE1	TYR	S	61	256.936	89.324	30.531	1.00	124.63	SS19
ATOM	50640	CD2	TYR	S	61	256.638	91.390	28.697	1.00	124.63	SS19



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ATOM	50641	CE2	TYR	S	61	257.887	91.140	29.266	1.00124.63	SS19
ATOM	50642	CZ	TYR	S	61	258.027	90.107	30.180	1.00124.63	SS19
ATOM	50643	OH	TYR	S	61	259.257	89.862	30.740	1.00124.63	SS19
ATOM	50644	C	TYR	S	61	254.263	93.397	28.524	1.00128.07	SS19
ATOM	50645	O	TYR	S	61	254.490	93.610	27.332	1.00128.07	SS19
ATOM	50646	N	ILE	S	62	254.661	94.215	29.491	1.00119.81	SS19
ATOM	50647	CA	ILE	S	62	255.388	95.442	29.196	1.00119.81	SS19
ATOM	50648	CB	ILE	S	62	255.061	96.529	30.251	1.00123.43	SS19
ATOM	50649	CG2	ILE	S	62	255.272	95.978	31.646	1.00123.43	SS19
ATOM	50650	CG1	ILE	S	62	255.918	97.772	30.016	1.00123.43	SS19
ATOM	50651	CD1	ILE	S	62	255.674	98.437	28.684	1.00123.43	SS19
ATOM	50652	C	ILE	S	62	256.900	95.237	29.119	1.00119.81	SS19
ATOM	50653	O	ILE	S	62	257.549	94.950	30.123	1.00119.81	SS19
ATOM	50654	N	THR	S	63	257.453	95.385	27.916	1.00 96.60	SS19
ATOM	50655	CA	THR	S	63	258.887	95.222	27.696	1.00 96.60	SS19
ATOM	50656	CB	THR	S	63	259.169	94.471	26.385	1.00 82.03	SS19
ATOM	50657	OG1	THR	S	63	258.257	93.373	26.260	1.00 82.03	SS19
ATOM	50658	CG2	THR	S	63	260.601	93.928	26.385	1.00 82.03	SS19
ATOM	50659	C	THR	S	63	259.544	96.594	27.621	1.00 96.60	SS19
ATOM	50660	O	THR	S	63	258.863	97.613	27.700	1.00 96.60	SS19
ATOM	50661	N	GLU	S	64	260.863	96.619	27.465	1.00 84.97	SS19
ATOM	50662	CA	GLU	S	64	261.594	97.881	27.393	1.00 84.97	SS19
ATOM	50663	CB	GLU	S	64	263.104	97.629	27.487	1.00143.32	SS19
ATOM	50664	CG	GLU	S	64	263.943	98.902	27.572	1.00143.32	SS19
ATOM	50665	CD	GLU	S	64	263.747	99.653	28.882	1.00143.32	SS19
ATOM	50666	OE1	GLU	S	64	264.184	99.137	29.932	1.00143.32	SS19
ATOM	50667	OE2	GLU	S	64	263.155	100.756	28.865	1.00143.32	SS19
ATOM	50668	C	GLU	S	64	261.288	98.657	26.114	1.00 84.97	SS19
ATOM	50669	O	GLU	S	64	260.845	99.804	26.160	1.00 84.97	SS19
ATOM	50670	N	ASN	S	65	261.537	98.023	24.976	1.00132.01	SS19
ATOM	50671	CA	ASN	S	65	261.305	98.630	23.671	1.00132.01	SS19
ATOM	50672	CB	ASN	S	65	261.347	97.538	22.604	1.00126.15	SS19
ATOM	50673	CG	ASN	S	65	260.478	96.348	22.963	1.00126.15	SS19
ATOM	50674	OD1	ASN	S	65	260.516	95.857	24.090	1.00126.15	SS19
ATOM	50675	ND2	ASN	S	65	259.697	95.874	22.005	1.00126.15	SS19
ATOM	50676	C	ASN	S	65	259.987	99.404	23.582	1.00132.01	SS19
ATOM	50677	O	ASN	S	65	259.870	100.352	22.803	1.00132.01	SS19
ATOM	50678	N	MET	S	66	259.001	99.004	24.383	1.00109.18	SS19
ATOM	50679	CA	MET	S	66	257.697	99.665	24.375	1.00109.18	SS19
ATOM	50680	CB	MET	S	66	256.579	98.610	24.285	1.00 99.37	SS19
ATOM	50681	CG	MET	S	66	256.665	97.475	25.313	1.00 99.37	SS19
ATOM	50682	SD	MET	S	66	255.233	96.314	25.284	1.00 99.37	SS19
ATOM	50683	CE	MET	S	66	255.922	94.896	24.355	1.00 99.37	SS19
ATOM	50684	C	MET	S	66	257.462	100.562	25.591	1.00109.18	SS19
ATOM	50685	O	MET	S	66	256.535	100.326	26.364	1.00109.18	SS19
ATOM	50686	N	VAL	S	67	258.279	101.601	25.755	1.00 92.53	SS19
ATOM	50687	CA	VAL	S	67	258.126	102.487	26.907	1.00 92.53	SS19
ATOM	50688	CB	VAL	S	67	259.503	102.891	27.498	1.00 92.26	SS19
ATOM	50689	CG1	VAL	S	67	259.341	104.035	28.493	1.00 92.26	SS19
ATOM	50690	CG2	VAL	S	67	260.125	101.696	28.210	1.00 92.26	SS19
ATOM	50691	C	VAL	S	67	257.296	103.745	26.666	1.00 92.53	SS19
ATOM	50692	O	VAL	S	67	256.103	103.757	26.969	1.00 92.53	SS19
ATOM	50693	N	GLY	S	68	257.921	104.794	26.135	1.00100.83	SS19
ATOM	50694	CA	GLY	S	68	257.226	106.054	25.883	1.00100.83	SS19
ATOM	50695	C	GLY	S	68	255.738	105.995	25.559	1.00100.83	SS19
ATOM	50696	O	GLY	S	68	254.995	106.939	25.834	1.00100.83	SS19
ATOM	50697	N	HIS	S	69	255.307	104.881	24.974	1.00 79.67	SS19
ATOM	50698	CA	HIS	S	69	253.916	104.669	24.593	1.00 79.67	SS19
ATOM	50699	CB	HIS	S	69	253.800	103.328	23.877	1.00109.82	SS19
ATOM	50700	CG	HIS	S	69	254.751	103.186	22.731	1.00109.82	SS19
ATOM	50701	CD2	HIS	S	69	255.850	102.410	22.575	1.00109.82	SS19
ATOM	50702	ND1	HIS	S	69	254.653	103.947	21.586	1.00109.82	SS19
ATOM	50703	CE1	HIS	S	69	255.650	103.647	20.774	1.00109.82	SS19
ATOM	50704	NE2	HIS	S	69	256.391	102.718	21.350	1.00109.82	SS19
ATOM	50705	C	HIS	S	69	252.962	104.723	25.778	1.00 79.67	SS19
ATOM	50706	O	HIS	S	69	253.358	105.104	26.877	1.00 79.67	SS19
ATOM	50707	N	LYS	S	70	251.707	104.338	25.549	1.00 81.26	SS19
ATOM	50708	CA	LYS	S	70	250.687	104.373	26.597	1.00 81.26	SS19
ATOM	50709	CB	LYS	S	70	249.862	105.659	26.482	1.00 51.00	SS19
ATOM	50710	CG	LYS	S	70	250.667	106.818	25.954	1.00 51.00	SS19
ATOM	50711	CD	LYS	S	70	250.055	108.146	26.299	1.00 51.00	SS19
ATOM	50712	CE	LYS	S	70	250.978	109.258	25.826	1.00 51.00	SS19
ATOM	50713	NZ	LYS	S	70	250.605	110.589	26.382	1.00 51.00	SS19
ATOM	50714	C	LYS	S	70	249.746	103.180	26.536	1.00 81.26	SS19
ATOM	50715	O	LYS	S	70	248.846	103.144	25.701	1.00 81.26	SS19
ATOM	50716	N	LEU	S	71	249.957	102.224	27.438	1.00 94.64	SS19
ATOM	50717	CA	LEU	S	71	249.158	101.002	27.546	1.00 94.64	SS19



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ATOM	50718	CB	LEU	S	71	248.612	100.861	28.966	1.00	72.61	SS19
ATOM	50719	CG	LEU	S	71	249.634	101.134	30.072	1.00	72.61	SS19
ATOM	50720	CD1	LEU	S	71	249.603	102.619	30.443	1.00	72.61	SS19
ATOM	50721	CD2	LEU	S	71	249.314	100.278	31.281	1.00	72.61	SS19
ATOM	50722	C	LEU	S	71	248.007	100.898	26.559	1.00	94.64	SS19
ATOM	50723	O	LEU	S	71	247.891	99.903	25.848	1.00	94.64	SS19
ATOM	50724	N	GLY	S	72	247.152	101.918	26.536	1.00	112.25	SS19
ATOM	50725	CA	GLY	S	72	246.026	101.933	25.619	1.00	112.25	SS19
ATOM	50726	C	GLY	S	72	246.393	101.467	24.221	1.00	112.25	SS19
ATOM	50727	O	GLY	S	72	245.656	100.700	23.602	1.00	112.25	SS19
ATOM	50728	N	GLU	S	73	247.535	101.927	23.720	1.00	68.42	SS19
ATOM	50729	CA	GLU	S	73	248.000	101.542	22.394	1.00	68.42	SS19
ATOM	50730	CB	GLU	S	73	249.381	102.131	22.119	1.00	89.07	SS19
ATOM	50731	CG	GLU	S	73	249.434	103.630	22.054	1.00	89.07	SS19
ATOM	50732	CD	GLU	S	73	250.849	104.139	21.845	1.00	89.07	SS19
ATOM	50733	OE1	GLU	S	73	251.479	103.729	20.847	1.00	89.07	SS19
ATOM	50734	OE2	GLU	S	73	251.334	104.948	22.671	1.00	89.07	SS19
ATOM	50735	C	GLU	S	73	248.095	100.029	22.249	1.00	68.42	SS19
ATOM	50736	O	GLU	S	73	248.062	99.502	21.141	1.00	68.42	SS19
ATOM	50737	N	PHE	S	74	248.216	99.325	23.365	1.00	82.37	SS19
ATOM	50738	CA	PHE	S	74	248.358	97.875	23.318	1.00	82.37	SS19
ATOM	50739	CB	PHE	S	74	249.529	97.455	24.212	1.00	88.51	SS19
ATOM	50740	CG	PHE	S	74	250.794	98.221	23.928	1.00	88.51	SS19
ATOM	50741	CD1	PHE	S	74	250.850	99.602	24.136	1.00	88.51	SS19
ATOM	50742	CD2	PHE	S	74	251.908	97.584	23.394	1.00	88.51	SS19
ATOM	50743	CE1	PHE	S	74	251.993	100.336	23.811	1.00	88.51	SS19
ATOM	50744	CE2	PHE	S	74	253.060	98.313	23.065	1.00	88.51	SS19
ATOM	50745	CZ	PHE	S	74	253.099	99.691	23.273	1.00	88.51	SS19
ATOM	50746	C	PHE	S	74	247.076	97.162	23.710	1.00	82.37	SS19
ATOM	50747	O	PHE	S	74	247.056	95.947	23.918	1.00	82.37	SS19
ATOM	50748	N	ALA	S	75	246.004	97.939	23.797	1.00	102.89	SS19
ATOM	50749	CA	ALA	S	75	244.691	97.423	24.139	1.00	102.89	SS19
ATOM	50750	CB	ALA	S	75	244.243	97.974	25.474	1.00	117.29	SS19
ATOM	50751	C	ALA	S	75	243.764	97.905	23.037	1.00	102.89	SS19
ATOM	50752	O	ALA	S	75	243.058	98.901	23.200	1.00	102.89	SS19
ATOM	50753	N	PRO	S	76	243.749	97.195	21.899	1.00	75.47	SS19
ATOM	50754	CD	PRO	S	76	244.211	95.798	21.799	1.00	77.01	SS19
ATOM	50755	CA	PRO	S	76	242.908	97.548	20.750	1.00	75.47	SS19
ATOM	50756	CB	PRO	S	76	243.076	96.348	19.831	1.00	77.01	SS19
ATOM	50757	CG	PRO	S	76	243.231	95.211	20.818	1.00	77.01	SS19
ATOM	50758	C	PRO	S	76	241.453	97.777	21.148	1.00	75.47	SS19
ATOM	50759	O	PRO	S	76	240.898	97.029	21.949	1.00	75.47	SS19
ATOM	50760	N	THR	S	77	240.837	98.812	20.589	1.00	79.39	SS19
ATOM	50761	CA	THR	S	77	239.449	99.117	20.907	1.00	79.39	SS19
ATOM	50762	CB	THR	S	77	239.176	100.629	20.849	1.00	59.96	SS19
ATOM	50763	OG1	THR	S	77	239.669	101.258	22.036	1.00	59.96	SS19
ATOM	50764	CG2	THR	S	77	237.696	100.883	20.732	1.00	59.96	SS19
ATOM	50765	C	THR	S	77	238.444	98.438	19.987	1.00	79.39	SS19
ATOM	50766	O	THR	S	77	237.668	97.590	20.418	1.00	79.39	SS19
ATOM	50767	N	ARG	S	78	238.460	98.824	18.717	1.00	82.31	SS19
ATOM	50768	CA	ARG	S	78	237.528	98.290	17.734	1.00	82.31	SS19
ATOM	50769	CB	ARG	S	78	237.403	99.284	16.582	1.00	68.29	SS19
ATOM	50770	CG	ARG	S	78	236.234	100.231	16.765	1.00	68.29	SS19
ATOM	50771	CD	ARG	S	78	236.408	101.528	16.015	1.00	68.29	SS19
ATOM	50772	NE	ARG	S	78	237.458	102.332	16.612	1.00	68.29	SS19
ATOM	50773	CZ	ARG	S	78	237.669	103.604	16.306	1.00	68.29	SS19
ATOM	50774	NH1	ARG	S	78	236.893	104.202	15.411	1.00	68.29	SS19
ATOM	50775	NH2	ARG	S	78	238.651	104.276	16.890	1.00	68.29	SS19
ATOM	50776	C	ARG	S	78	237.828	96.902	17.187	1.00	82.31	SS19
ATOM	50777	O	ARG	S	78	238.987	96.502	17.082	1.00	82.31	SS19
ATOM	50778	N	THR	S	79	236.768	96.168	16.850	1.00	92.17	SS19
ATOM	50779	CA	THR	S	79	236.899	94.823	16.285	1.00	92.17	SS19
ATOM	50780	CB	THR	S	79	235.876	93.834	16.898	1.00	73.12	SS19
ATOM	50781	OG1	THR	S	79	235.919	93.906	18.330	1.00	73.12	SS19
ATOM	50782	CG2	THR	S	79	236.198	92.412	16.466	1.00	73.12	SS19
ATOM	50783	C	THR	S	79	236.614	94.943	14.788	1.00	92.17	SS19
ATOM	50784	O	THR	S	79	235.627	95.565	14.388	1.00	92.17	SS19
ATOM	50785	N	TYR	S	80	237.470	94.357	13.961	1.00	81.31	SS19
ATOM	50786	CA	TYR	S	80	237.280	94.439	12.516	1.00	81.31	SS19
ATOM	50787	CB	TYR	S	80	238.127	95.589	11.953	1.00	93.66	SS19
ATOM	50788	CG	TYR	S	80	238.091	95.694	10.446	1.00	93.66	SS19
ATOM	50789	CD1	TYR	S	80	237.248	96.595	9.798	1.00	93.66	SS19
ATOM	50790	CE1	TYR	S	80	237.183	96.638	8.400	1.00	93.66	SS19
ATOM	50791	CD2	TYR	S	80	238.865	94.847	9.664	1.00	93.66	SS19
ATOM	50792	CE2	TYR	S	80	238.801	94.877	8.282	1.00	93.66	SS19
ATOM	50793	CZ	TYR	S	80	237.964	95.765	7.655	1.00	93.66	SS19
ATOM	50794	OH	TYR	S	80	237.904	95.737	6.283	1.00	93.66	SS19



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ATOM	50795	C	TYR	S	80	237.626	93.124	11.801	1.00	81.31	SS19
ATOM	50796	O	TYR	S	80	238.468	92.356	12.274	1.00	81.31	SS19
ATOM	50797	N	ARG	S	81	236.969	92.871	10.666	1.00	106.90	SS19
ATOM	50798	CA	ARG	S	81	237.217	91.660	9.885	1.00	106.90	SS19
ATOM	50799	CB	ARG	S	81	238.611	91.739	9.252	1.00	125.02	SS19
ATOM	50800	CG	ARG	S	81	239.109	90.514	8.500	1.00	125.02	SS19
ATOM	50801	CD	ARG	S	81	240.475	90.828	7.866	1.00	125.02	SS19
ATOM	50802	NE	ARG	S	81	241.160	89.653	7.328	1.00	125.02	SS19
ATOM	50803	CZ	ARG	S	81	241.875	88.797	8.053	1.00	125.02	SS19
ATOM	50804	NH1	ARG	S	81	242.012	88.979	9.359	1.00	125.02	SS19
ATOM	50805	NH2	ARG	S	81	242.450	87.752	7.473	1.00	125.02	SS19
ATOM	50806	C	ARG	S	81	237.109	90.451	10.802	1.00	106.90	SS19
ATOM	50807	O	ARG	S	81	238.150	89.833	11.100	1.00	106.90	SS19
ATOM	50808	OXT	ARG	S	81	235.976	90.153	11.233	1.00	153.99	SS19
TER	50808		ARG	S	81						SS19
ATOM	50809	CB	ARG	T	8	131.920	42.150	9.676	1.00	103.21	TS20
ATOM	50810	CG	ARG	T	8	133.418	42.036	9.558	1.00	103.21	TS20
ATOM	50811	CD	ARG	T	8	133.770	40.577	9.493	1.00	103.21	TS20
ATOM	50812	NE	ARG	T	8	135.080	40.308	10.071	1.00	103.21	TS20
ATOM	50813	CZ	ARG	T	8	135.402	39.175	10.693	1.00	103.21	TS20
ATOM	50814	NH1	ARG	T	8	134.499	38.207	10.818	1.00	103.21	TS20
ATOM	50815	NH2	ARG	T	8	136.626	39.004	11.189	1.00	103.21	TS20
ATOM	50816	C	ARG	T	8	129.874	43.450	10.171	1.00	113.05	TS20
ATOM	50817	O	ARG	T	8	129.330	43.928	11.165	1.00	113.05	TS20
ATOM	50818	N	ARG	T	8	132.035	44.126	11.176	1.00	113.05	TS20
ATOM	50819	CA	ARG	T	8	131.380	43.552	9.966	1.00	113.05	TS20
ATOM	50820	N	ASN	T	9	129.213	42.814	9.213	1.00	81.01	TS20
ATOM	50821	CA	ASN	T	9	127.774	42.597	9.251	1.00	81.01	TS20
ATOM	50822	CB	ASN	T	9	127.441	41.478	10.240	1.00	139.07	TS20
ATOM	50823	CG	ASN	T	9	127.857	40.112	9.735	1.00	139.07	TS20
ATOM	50824	OD1	ASN	T	9	127.422	39.671	8.667	1.00	139.07	TS20
ATOM	50825	ND2	ASN	T	9	128.702	39.433	10.500	1.00	139.07	TS20
ATOM	50826	C	ASN	T	9	126.907	43.806	9.559	1.00	81.01	TS20
ATOM	50827	O	ASN	T	9	126.599	44.091	10.715	1.00	81.01	TS20
ATOM	50828	N	LEU	T	10	126.517	44.513	8.507	1.00	61.96	TS20
ATOM	50829	CA	LEU	T	10	125.640	45.662	8.634	1.00	61.96	TS20
ATOM	50830	CB	LEU	T	10	126.126	46.812	7.744	1.00	123.72	TS20
ATOM	50831	CG	LEU	T	10	125.654	48.248	8.031	1.00	123.72	TS20
ATOM	50832	CD1	LEU	T	10	124.119	48.316	8.078	1.00	123.72	TS20
ATOM	50833	CD2	LEU	T	10	126.269	48.724	9.347	1.00	123.72	TS20
ATOM	50834	C	LEU	T	10	124.336	45.082	8.093	1.00	61.96	TS20
ATOM	50835	O	LEU	T	10	123.937	45.383	6.968	1.00	61.96	TS20
ATOM	50836	N	SER	T	11	123.704	44.234	8.909	1.00	47.00	TS20
ATOM	50837	CA	SER	T	11	122.465	43.525	8.575	1.00	47.00	TS20
ATOM	50838	CB	SER	T	11	121.613	43.295	9.830	1.00	42.31	TS20
ATOM	50839	OG	SER	T	11	121.816	41.980	10.342	1.00	42.31	TS20
ATOM	50840	C	SER	T	11	121.593	44.058	7.456	1.00	47.00	TS20
ATOM	50841	O	SER	T	11	120.824	43.287	6.876	1.00	47.00	TS20
ATOM	50842	N	ALA	T	12	121.684	45.352	7.159	1.00	57.60	TS20
ATOM	50843	CA	ALA	T	12	120.936	45.917	6.042	1.00	57.60	TS20
ATOM	50844	CB	ALA	T	12	120.933	47.426	6.134	1.00	52.49	TS20
ATOM	50845	C	ALA	T	12	121.585	45.436	4.700	1.00	57.60	TS20
ATOM	50846	O	ALA	T	12	121.650	46.165	3.708	1.00	57.60	TS20
ATOM	50847	N	LEU	T	13	122.102	44.204	4.715	1.00	69.18	TS20
ATOM	50848	CA	LEU	T	13	122.672	43.552	3.533	1.00	69.18	TS20
ATOM	50849	CB	LEU	T	13	123.511	42.330	3.910	1.00	32.85	TS20
ATOM	50850	CG	LEU	T	13	124.933	42.411	4.479	1.00	32.85	TS20
ATOM	50851	CD1	LEU	T	13	124.886	42.538	5.994	1.00	32.85	TS20
ATOM	50852	CD2	LEU	T	13	125.704	41.153	4.098	1.00	32.85	TS20
ATOM	50853	C	LEU	T	13	121.403	43.032	2.887	1.00	69.18	TS20
ATOM	50854	O	LEU	T	13	121.361	42.664	1.716	1.00	69.18	TS20
ATOM	50855	N	LYS	T	14	120.376	42.973	3.727	1.00	42.71	TS20
ATOM	50856	CA	LYS	T	14	119.044	42.534	3.362	1.00	42.71	TS20
ATOM	50857	CB	LYS	T	14	118.063	42.903	4.486	1.00	41.79	TS20
ATOM	50858	CG	LYS	T	14	116.602	42.483	4.277	1.00	41.79	TS20
ATOM	50859	CD	LYS	T	14	115.733	43.065	5.396	1.00	41.79	TS20
ATOM	50860	CE	LYS	T	14	114.330	42.433	5.488	1.00	41.79	TS20
ATOM	50861	NZ	LYS	T	14	113.566	42.828	6.747	1.00	41.79	TS20
ATOM	50862	C	LYS	T	14	118.658	43.244	2.078	1.00	42.71	TS20
ATOM	50863	O	LYS	T	14	118.091	42.634	1.163	1.00	42.71	TS20
ATOM	50864	N	ARG	T	15	118.977	44.536	2.012	1.00	41.35	TS20
ATOM	50865	CA	ARG	T	15	118.654	45.328	0.832	1.00	41.35	TS20
ATOM	50866	CB	ARG	T	15	119.127	46.762	1.021	1.00	52.46	TS20
ATOM	50867	CG	ARG	T	15	118.169	47.641	1.827	1.00	52.46	TS20
ATOM	50868	CD	ARG	T	15	116.927	48.026	1.025	1.00	52.46	TS20
ATOM	50869	NE	ARG	T	15	116.219	49.152	1.635	1.00	52.46	TS20
ATOM	50870	CZ	ARG	T	15	115.107	49.694	1.142	1.00	52.46	TS20



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ATOM	50871	NH1	ARG	T	15	114.572	49.206	0.025	1.00	52.46	TS20
ATOM	50872	NH2	ARG	T	15	114.530	50.725	1.755	1.00	52.46	TS20
ATOM	50873	C	ARG	T	15	119.270	44.723	-0.427	1.00	41.35	TS20
ATOM	50874	O	ARG	T	15	118.622	44.641	-1.484	1.00	41.35	TS20
ATOM	50875	N	HIS	T	16	120.516	44.279	-0.324	1.00	48.03	TS20
ATOM	50876	CA	HIS	T	16	121.121	43.684	-1.491	1.00	48.03	TS20
ATOM	50877	CB	HIS	T	16	122.585	43.387	-1.258	1.00	63.60	TS20
ATOM	50878	CG	HIS	T	16	123.291	42.966	-2.500	1.00	63.60	TS20
ATOM	50879	CD2	HIS	T	16	124.049	43.669	-3.372	1.00	63.60	TS20
ATOM	50880	ND1	HIS	T	16	123.197	41.691	-3.012	1.00	63.60	TS20
ATOM	50881	CE1	HIS	T	16	123.871	41.624	-4.146	1.00	63.60	TS20
ATOM	50882	NE2	HIS	T	16	124.399	42.811	-4.387	1.00	63.60	TS20
ATOM	50883	C	HIS	T	16	120.379	42.407	-1.868	1.00	48.03	TS20
ATOM	50884	O	HIS	T	16	120.253	42.082	-3.048	1.00	48.03	TS20
ATOM	50885	N	ARG	T	17	119.881	41.685	-0.867	1.00	45.80	TS20
ATOM	50886	CA	ARG	T	17	119.137	40.455	-1.131	1.00	45.80	TS20
ATOM	50887	CB	ARG	T	17	118.685	39.797	0.178	1.00	45.34	TS20
ATOM	50888	CG	ARG	T	17	119.776	39.124	0.982	1.00	45.34	TS20
ATOM	50889	CD	ARG	T	17	119.198	38.578	2.280	1.00	45.34	TS20
ATOM	50890	NE	ARG	T	17	119.907	39.104	3.443	1.00	45.34	TS20
ATOM	50891	CZ	ARG	T	17	119.340	39.362	4.622	1.00	45.34	TS20
ATOM	50892	NH1	ARG	T	17	118.044	39.139	4.810	1.00	45.34	TS20
ATOM	50893	NH2	ARG	T	17	120.071	39.874	5.614	1.00	45.34	TS20
ATOM	50894	C	ARG	T	17	117.902	40.779	-1.957	1.00	45.80	TS20
ATOM	50895	O	ARG	T	17	117.628	40.158	-2.982	1.00	45.80	TS20
ATOM	50896	N	GLN	T	18	117.157	41.768	-1.490	1.00	33.36	TS20
ATOM	50897	CA	GLN	T	18	115.930	42.172	-2.150	1.00	33.36	TS20
ATOM	50898	CB	GLN	T	18	115.234	43.236	-1.313	1.00	45.64	TS20
ATOM	50899	CG	GLN	T	18	115.620	43.116	0.140	1.00	45.64	TS20
ATOM	50900	CD	GLN	T	18	114.653	43.779	1.065	1.00	45.64	TS20
ATOM	50901	OE1	GLN	T	18	114.519	45.004	1.087	1.00	45.64	TS20
ATOM	50902	NE2	GLN	T	18	113.960	42.970	1.848	1.00	45.64	TS20
ATOM	50903	C	GLN	T	18	116.223	42.695	-3.533	1.00	33.36	TS20
ATOM	50904	O	GLN	T	18	115.579	42.282	-4.498	1.00	33.36	TS20
ATOM	50905	N	SER	T	19	117.206	43.591	-3.630	1.00	38.99	TS20
ATOM	50906	CA	SER	T	19	117.569	44.173	-4.921	1.00	38.99	TS20
ATOM	50907	CB	SER	T	19	118.883	44.941	-4.809	1.00	55.83	TS20
ATOM	50908	OG	SER	T	19	119.903	44.104	-4.318	1.00	55.83	TS20
ATOM	50909	C	SER	T	19	117.680	43.081	-5.982	1.00	38.99	TS20
ATOM	50910	O	SER	T	19	117.144	43.207	-7.084	1.00	38.99	TS20
ATOM	50911	N	LEU	T	20	118.354	41.995	-5.642	1.00	48.16	TS20
ATOM	50912	CA	LEU	T	20	118.486	40.911	-6.586	1.00	48.16	TS20
ATOM	50913	CB	LEU	T	20	119.342	39.810	-5.990	1.00	51.90	TS20
ATOM	50914	CG	LEU	T	20	120.807	40.226	-6.077	1.00	51.90	TS20
ATOM	50915	CD1	LEU	T	20	121.686	39.369	-5.180	1.00	51.90	TS20
ATOM	50916	CD2	LEU	T	20	121.234	40.105	-7.530	1.00	51.90	TS20
ATOM	50917	C	LEU	T	20	117.132	40.365	-7.028	1.00	48.16	TS20
ATOM	50918	O	LEU	T	20	116.910	40.163	-8.222	1.00	48.16	TS20
ATOM	50919	N	LYS	T	21	116.219	40.132	-6.090	1.00	55.25	TS20
ATOM	50920	CA	LYS	T	21	114.908	39.612	-6.473	1.00	55.25	TS20
ATOM	50921	CB	LYS	T	21	113.991	39.474	-5.257	1.00	60.83	TS20
ATOM	50922	CG	LYS	T	21	114.442	38.480	-4.227	1.00	60.83	TS20
ATOM	50923	CD	LYS	T	21	113.402	38.395	-3.124	1.00	60.83	TS20
ATOM	50924	CE	LYS	T	21	113.894	37.573	-1.931	1.00	60.83	TS20
ATOM	50925	NZ	LYS	T	21	112.933	37.613	-0.780	1.00	60.83	TS20
ATOM	50926	C	LYS	T	21	114.247	40.548	-7.488	1.00	55.25	TS20
ATOM	50927	O	LYS	T	21	114.070	40.194	-8.659	1.00	55.25	TS20
ATOM	50928	N	ARG	T	22	113.883	41.742	-7.020	1.00	50.75	TS20
ATOM	50929	CA	ARG	T	22	113.241	42.749	-7.850	1.00	50.75	TS20
ATOM	50930	CB	ARG	T	22	113.353	44.117	-7.186	1.00	74.34	TS20
ATOM	50931	CG	ARG	T	22	112.471	44.268	-5.977	1.00	74.34	TS20
ATOM	50932	CD	ARG	T	22	112.891	45.433	-5.106	1.00	74.34	TS20
ATOM	50933	NE	ARG	T	22	111.968	45.588	-3.986	1.00	74.34	TS20
ATOM	50934	CZ	ARG	T	22	110.756	46.129	-4.093	1.00	74.34	TS20
ATOM	50935	NH1	ARG	T	22	110.329	46.576	-5.271	1.00	74.34	TS20
ATOM	50936	NH2	ARG	T	22	109.956	46.201	-3.033	1.00	74.34	TS20
ATOM	50937	C	ARG	T	22	113.897	42.776	-9.216	1.00	50.75	TS20
ATOM	50938	O	ARG	T	22	113.210	42.836	-10.242	1.00	50.75	TS20
ATOM	50939	N	ARG	T	23	115.227	42.725	-9.233	1.00	44.20	TS20
ATOM	50940	CA	ARG	T	23	115.942	42.735	-10.502	1.00	44.20	TS20
ATOM	50941	CB	ARG	T	23	117.415	42.426	-10.289	1.00	76.95	TS20
ATOM	50942	CG	ARG	T	23	118.190	42.244	-11.572	1.00	76.95	TS20
ATOM	50943	CD	ARG	T	23	119.676	42.172	-11.284	1.00	76.95	TS20
ATOM	50944	NE	ARG	T	23	120.439	41.683	-12.425	1.00	76.95	TS20
ATOM	50945	CZ	ARG	T	23	120.292	40.474	-12.961	1.00	76.95	TS20
ATOM	50946	NH1	ARG	T	23	119.403	39.624	-12.461	1.00	76.95	TS20
ATOM	50947	NH2	ARG	T	23	121.040	40.108	-13.992	1.00	76.95	TS20



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ATOM	50948	C	ARG	T	23	115.319	41.675	-11.391	1.00	44.20	TS20
ATOM	50949	O	ARG	T	23	114.650	41.981	-12.381	1.00	44.20	TS20
ATOM	50950	N	LEU	T	24	115.515	40.423	-11.008	1.00	58.44	TS20
ATOM	50951	CA	LEU	T	24	114.972	39.305	-11.761	1.00	58.44	TS20
ATOM	50952	CB	LEU	T	24	115.210	38.016	-10.986	1.00	86.61	TS20
ATOM	50953	CG	LEU	T	24	114.785	36.752	-11.716	1.00	86.61	TS20
ATOM	50954	CD1	LEU	T	24	115.478	36.650	-13.077	1.00	86.61	TS20
ATOM	50955	CD2	LEU	T	24	115.128	35.573	-10.834	1.00	86.61	TS20
ATOM	50956	C	LEU	T	24	113.479	39.463	-12.072	1.00	58.44	TS20
ATOM	50957	O	LEU	T	24	112.995	38.990	-13.101	1.00	58.44	TS20
ATOM	50958	N	ARG	T	25	112.755	40.135	-11.184	1.00	61.57	TS20
ATOM	50959	CA	ARG	T	25	111.328	40.338	-11.384	1.00	61.57	TS20
ATOM	50960	CB	ARG	T	25	110.694	40.874	-10.104	1.00	72.46	TS20
ATOM	50961	CG	ARG	T	25	109.186	40.820	-10.090	1.00	72.46	TS20
ATOM	50962	CD	ARG	T	25	108.733	39.909	-8.980	1.00	72.46	TS20
ATOM	50963	NE	ARG	T	25	109.303	40.308	-7.693	1.00	72.46	TS20
ATOM	50964	CZ	ARG	T	25	109.213	39.588	-6.573	1.00	72.46	TS20
ATOM	50965	NH1	ARG	T	25	108.574	38.421	-6.578	1.00	72.46	TS20
ATOM	50966	NH2	ARG	T	25	109.758	40.034	-5.444	1.00	72.46	TS20
ATOM	50967	C	ARG	T	25	111.069	41.305	-12.542	1.00	61.57	TS20
ATOM	50968	O	ARG	T	25	110.230	41.026	-13.407	1.00	61.57	TS20
ATOM	50969	N	ASN	T	26	111.787	42.435	-12.552	1.00	49.01	TS20
ATOM	50970	CA	ASN	T	26	111.654	43.453	-13.605	1.00	49.01	TS20
ATOM	50971	CB	ASN	T	26	112.434	44.712	-13.234	1.00	60.09	TS20
ATOM	50972	CG	ASN	T	26	111.926	45.366	-11.969	1.00	60.09	TS20
ATOM	50973	OD1	ASN	T	26	110.767	45.778	-11.889	1.00	60.09	TS20
ATOM	50974	ND2	ASN	T	26	112.798	45.477	-10.971	1.00	60.09	TS20
ATOM	50975	C	ASN	T	26	112.246	42.892	-14.889	1.00	49.01	TS20
ATOM	50976	O	ASN	T	26	111.674	42.996	-15.985	1.00	49.01	TS20
ATOM	50977	N	LYS	T	27	113.422	42.305	-14.720	1.00	47.48	TS20
ATOM	50978	CA	LYS	T	27	114.156	41.696	-15.802	1.00	47.48	TS20
ATOM	50979	CB	LYS	T	27	115.265	40.820	-15.217	1.00	81.44	TS20
ATOM	50980	CG	LYS	T	27	116.252	40.324	-16.233	1.00	81.44	TS20
ATOM	50981	CD	LYS	T	27	116.434	38.827	-16.130	1.00	81.44	TS20
ATOM	50982	CE	LYS	T	27	116.864	38.261	-17.479	1.00	81.44	TS20
ATOM	50983	NZ	LYS	T	27	116.775	36.775	-17.529	1.00	81.44	TS20
ATOM	50984	C	LYS	T	27	113.184	40.856	-16.627	1.00	47.48	TS20
ATOM	50985	O	LYS	T	27	113.180	40.906	-17.856	1.00	47.48	TS20
ATOM	50986	N	ALA	T	28	112.332	40.109	-15.936	1.00	54.53	TS20
ATOM	50987	CA	ALA	T	28	111.377	39.236	-16.601	1.00	54.53	TS20
ATOM	50988	CB	ALA	T	28	110.884	38.203	-15.624	1.00	61.61	TS20
ATOM	50989	C	ALA	T	28	110.192	39.950	-17.243	1.00	54.53	TS20
ATOM	50990	O	ALA	T	28	109.831	39.656	-18.385	1.00	54.53	TS20
ATOM	50991	N	LYS	T	29	109.577	40.874	-16.511	1.00	61.95	TS20
ATOM	50992	CA	LYS	T	29	108.426	41.600	-17.043	1.00	61.95	TS20
ATOM	50993	CB	LYS	T	29	107.936	42.650	-16.040	1.00	67.59	TS20
ATOM	50994	CG	LYS	T	29	107.245	42.077	-14.814	1.00	67.59	TS20
ATOM	50995	CD	LYS	T	29	106.309	43.111	-14.210	1.00	67.59	TS20
ATOM	50996	CE	LYS	T	29	105.094	42.468	-13.537	1.00	67.59	TS20
ATOM	50997	NZ	LYS	T	29	103.976	43.456	-13.318	1.00	67.59	TS20
ATOM	50998	C	LYS	T	29	108.747	42.280	-18.372	1.00	61.95	TS20
ATOM	50999	O	LYS	T	29	107.931	42.269	-19.307	1.00	61.95	TS20
ATOM	51000	N	LYS	T	30	109.944	42.860	-18.452	1.00	63.23	TS20
ATOM	51001	CA	LYS	T	30	110.364	43.558	-19.656	1.00	63.23	TS20
ATOM	51002	CB	LYS	T	30	111.656	44.339	-19.395	1.00	64.71	TS20
ATOM	51003	CG	LYS	T	30	111.373	45.810	-19.089	1.00	64.71	TS20
ATOM	51004	CD	LYS	T	30	112.599	46.615	-18.724	1.00	64.71	TS20
ATOM	51005	CE	LYS	T	30	113.045	46.325	-17.302	1.00	64.71	TS20
ATOM	51006	NZ	LYS	T	30	114.206	47.177	-16.897	1.00	64.71	TS20
ATOM	51007	C	LYS	T	30	110.508	42.657	-20.868	1.00	63.23	TS20
ATOM	51008	O	LYS	T	30	109.973	42.965	-21.932	1.00	63.23	TS20
ATOM	51009	N	SER	T	31	111.207	41.541	-20.713	1.00	45.26	TS20
ATOM	51010	CA	SER	T	31	111.379	40.616	-21.830	1.00	45.26	TS20
ATOM	51011	CB	SER	T	31	112.062	39.334	-21.357	1.00	60.93	TS20
ATOM	51012	OG	SER	T	31	113.401	39.581	-20.962	1.00	60.93	TS20
ATOM	51013	C	SER	T	31	110.047	40.271	-22.508	1.00	45.26	TS20
ATOM	51014	O	SER	T	31	109.962	40.214	-23.737	1.00	45.26	TS20
ATOM	51015	N	ALA	T	32	109.011	40.038	-21.706	1.00	58.47	TS20
ATOM	51016	CA	ALA	T	32	107.693	39.710	-22.245	1.00	58.47	TS20
ATOM	51017	CB	ALA	T	32	106.681	39.582	-21.112	1.00	86.24	TS20
ATOM	51018	C	ALA	T	32	107.272	40.826	-23.191	1.00	58.47	TS20
ATOM	51019	O	ALA	T	32	106.908	40.593	-24.351	1.00	58.47	TS20
ATOM	51020	N	ILE	T	33	107.329	42.047	-22.671	1.00	48.63	TS20
ATOM	51021	CA	ILE	T	33	106.974	43.220	-23.438	1.00	48.63	TS20
ATOM	51022	CB	ILE	T	33	107.251	44.476	-22.640	1.00	34.38	TS20
ATOM	51023	CG2	ILE	T	33	107.124	45.693	-23.528	1.00	34.38	TS20
ATOM	51024	CG1	ILE	T	33	106.279	44.526	-21.461	1.00	34.38	TS20



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ATOM	51025	CD1	ILE	T	33	106.363	45.781	-20.623	1.00	34.38	TS20
ATOM	51026	C	ILE	T	33	107.764	43.258	-24.729	1.00	48.63	TS20
ATOM	51027	O	ILE	T	33	107.190	43.175	-25.816	1.00	48.63	TS20
ATOM	51028	N	LYS	T	34	109.082	43.366	-24.612	1.00	64.68	TS20
ATOM	51029	CA	LYS	T	34	109.927	43.410	-25.797	1.00	64.68	TS20
ATOM	51030	CB	LYS	T	34	111.396	43.268	-25.408	1.00	64.74	TS20
ATOM	51031	CG	LYS	T	34	111.908	44.438	-24.577	1.00	64.74	TS20
ATOM	51032	CD	LYS	T	34	113.359	44.241	-24.164	1.00	64.74	TS20
ATOM	51033	CE	LYS	T	34	113.857	45.386	-23.293	1.00	64.74	TS20
ATOM	51034	NZ	LYS	T	34	115.260	45.139	-22.838	1.00	64.74	TS20
ATOM	51035	C	LYS	T	34	109.531	42.322	-26.786	1.00	64.68	TS20
ATOM	51036	O	LYS	T	34	109.388	42.583	-27.982	1.00	64.68	TS20
ATOM	51037	N	THR	T	35	109.325	41.107	-26.292	1.00	55.40	TS20
ATOM	51038	CA	THR	T	35	108.945	40.023	-27.179	1.00	55.40	TS20
ATOM	51039	CB	THR	T	35	108.842	38.705	-26.438	1.00	70.61	TS20
ATOM	51040	OG1	THR	T	35	110.157	38.186	-26.213	1.00	70.61	TS20
ATOM	51041	CG2	THR	T	35	108.055	37.715	-27.254	1.00	70.61	TS20
ATOM	51042	C	THR	T	35	107.624	40.286	-27.871	1.00	55.40	TS20
ATOM	51043	O	THR	T	35	107.549	40.294	-29.101	1.00	55.40	TS20
ATOM	51044	N	LEU	T	36	106.578	40.494	-27.086	1.00	48.71	TS20
ATOM	51045	CA	LEU	T	36	105.269	40.750	-27.665	1.00	48.71	TS20
ATOM	51046	CB	LEU	T	36	104.246	40.997	-26.565	1.00	50.52	TS20
ATOM	51047	CG	LEU	T	36	104.028	39.814	-25.631	1.00	50.52	TS20
ATOM	51048	CD1	LEU	T	36	102.945	40.178	-24.640	1.00	50.52	TS20
ATOM	51049	CD2	LEU	T	36	103.624	38.582	-26.427	1.00	50.52	TS20
ATOM	51050	C	LEU	T	36	105.307	41.948	-28.601	1.00	48.71	TS20
ATOM	51051	O	LEU	T	36	104.569	42.006	-29.587	1.00	48.71	TS20
ATOM	51052	N	SER	T	37	106.170	42.907	-28.293	1.00	62.48	TS20
ATOM	51053	CA	SER	T	37	106.283	44.088	-29.124	1.00	62.48	TS20
ATOM	51054	CB	SER	T	37	107.267	45.060	-28.502	1.00	45.48	TS20
ATOM	51055	OG	SER	T	37	106.722	45.590	-27.313	1.00	45.48	TS20
ATOM	51056	C	SER	T	37	106.716	43.720	-30.535	1.00	62.48	TS20
ATOM	51057	O	SER	T	37	106.019	44.048	-31.498	1.00	62.48	TS20
ATOM	51058	N	LYS	T	38	107.857	43.045	-30.666	1.00	64.28	TS20
ATOM	51059	CA	LYS	T	38	108.330	42.634	-31.983	1.00	64.28	TS20
ATOM	51060	CB	LYS	T	38	109.603	41.817	-31.854	1.00	89.35	TS20
ATOM	51061	CG	LYS	T	38	110.707	42.601	-31.220	1.00	89.35	TS20
ATOM	51062	CD	LYS	T	38	111.852	41.721	-30.776	1.00	89.35	TS20
ATOM	51063	CE	LYS	T	38	112.871	42.540	-29.987	1.00	89.35	TS20
ATOM	51064	NZ	LYS	T	38	113.878	41.662	-29.332	1.00	89.35	TS20
ATOM	51065	C	LYS	T	38	107.236	41.781	-32.601	1.00	64.28	TS20
ATOM	51066	O	LYS	T	38	106.873	41.952	-33.770	1.00	64.28	TS20
ATOM	51067	N	LYS	T	39	106.708	40.870	-31.786	1.00	61.94	TS20
ATOM	51068	CA	LYS	T	39	105.638	39.962	-32.187	1.00	61.94	TS20
ATOM	51069	CB	LYS	T	39	104.974	39.384	-30.933	1.00	106.17	TS20
ATOM	51070	CG	LYS	T	39	104.832	37.866	-30.897	1.00	106.17	TS20
ATOM	51071	CD	LYS	T	39	103.742	37.361	-31.825	1.00	106.17	TS20
ATOM	51072	CE	LYS	T	39	103.378	35.912	-31.510	1.00	106.17	TS20
ATOM	51073	NZ	LYS	T	39	102.891	35.745	-30.104	1.00	106.17	TS20
ATOM	51074	C	LYS	T	39	104.592	40.685	-33.040	1.00	61.94	TS20
ATOM	51075	O	LYS	T	39	104.303	40.272	-34.159	1.00	61.94	TS20
ATOM	51076	N	ALA	T	40	104.034	41.766	-32.503	1.00	74.32	TS20
ATOM	51077	CA	ALA	T	40	103.016	42.528	-33.213	1.00	74.32	TS20
ATOM	51078	CB	ALA	T	40	102.336	43.512	-32.269	1.00	14.46	TS20
ATOM	51079	C	ALA	T	40	103.603	43.270	-34.401	1.00	74.32	TS20
ATOM	51080	O	ALA	T	40	103.248	42.989	-35.549	1.00	74.32	TS20
ATOM	51081	N	VAL	T	41	104.490	44.224	-34.129	1.00	61.94	TS20
ATOM	51082	CA	VAL	T	41	105.122	44.993	-35.197	1.00	61.94	TS20
ATOM	51083	CB	VAL	T	41	106.487	45.560	-34.775	1.00	43.81	TS20
ATOM	51084	CG1	VAL	T	41	107.221	46.049	-36.011	1.00	43.81	TS20
ATOM	51085	CG2	VAL	T	41	106.312	46.693	-33.750	1.00	43.81	TS20
ATOM	51086	C	VAL	T	41	105.376	44.065	-36.369	1.00	61.94	TS20
ATOM	51087	O	VAL	T	41	105.114	44.399	-37.521	1.00	61.94	TS20
ATOM	51088	N	GLN	T	42	105.894	42.888	-36.049	1.00	65.41	TS20
ATOM	51089	CA	GLN	T	42	106.191	41.888	-37.054	1.00	65.41	TS20
ATOM	51090	CB	GLN	T	42	106.721	40.625	-36.379	1.00	96.41	TS20
ATOM	51091	CG	GLN	T	42	108.032	40.172	-36.952	1.00	96.41	TS20
ATOM	51092	CD	GLN	T	42	107.923	39.877	-38.430	1.00	96.41	TS20
ATOM	51093	OE1	GLN	T	42	108.919	39.887	-39.149	1.00	96.41	TS20
ATOM	51094	NE2	GLN	T	42	106.709	39.600	-38.892	1.00	96.41	TS20
ATOM	51095	C	GLN	T	42	104.963	41.562	-37.902	1.00	65.41	TS20
ATOM	51096	O	GLN	T	42	104.954	41.811	-39.099	1.00	65.41	TS20
ATOM	51097	N	LEU	T	43	103.924	41.013	-37.286	1.00	89.40	TS20
ATOM	51098	CA	LEU	T	43	102.722	40.663	-38.031	1.00	89.40	TS20
ATOM	51099	CB	LEU	T	43	101.642	40.118	-37.092	1.00	75.67	TS20
ATOM	51100	CG	LEU	T	43	102.034	38.934	-36.202	1.00	75.67	TS20
ATOM	51101	CD1	LEU	T	43	100.775	38.409	-35.541	1.00	75.67	TS20



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ATOM	51102	CD2	LEU	T	43	102.722	37.829	-37.011	1.00	75.67	TS20
ATOM	51103	C	LEU	T	43	102.168	41.850	-38.804	1.00	89.40	TS20
ATOM	51104	O	LEU	T	43	102.009	41.782	-40.023	1.00	89.40	TS20
ATOM	51105	N	ALA	T	44	101.873	42.935	-38.092	1.00	85.17	TS20
ATOM	51106	CA	ALA	T	44	101.328	44.141	-38.718	1.00	85.17	TS20
ATOM	51107	CB	ALA	T	44	101.461	45.334	-37.766	1.00	76.78	TS20
ATOM	51108	C	ALA	T	44	102.072	44.426	-40.012	1.00	85.17	TS20
ATOM	51109	O	ALA	T	44	101.476	44.686	-41.061	1.00	85.17	TS20
ATOM	51110	N	GLN	T	45	103.391	44.364	-39.907	1.00	74.07	TS20
ATOM	51111	CA	GLN	T	45	104.294	44.599	-41.018	1.00	74.07	TS20
ATOM	51112	CB	GLN	T	45	105.732	44.351	-40.529	1.00	109.81	TS20
ATOM	51113	CG	GLN	T	45	106.824	44.521	-41.554	1.00	109.81	TS20
ATOM	51114	CD	GLN	T	45	106.789	43.431	-42.590	1.00	109.81	TS20
ATOM	51115	OE1	GLN	T	45	106.824	42.246	-42.260	1.00	109.81	TS20
ATOM	51116	NE2	GLN	T	45	106.710	43.821	-43.854	1.00	109.81	TS20
ATOM	51117	C	GLN	T	45	103.947	43.715	-42.226	1.00	74.07	TS20
ATOM	51118	O	GLN	T	45	103.846	44.208	-43.350	1.00	74.07	TS20
ATOM	51119	N	GLU	T	46	103.740	42.423	-41.988	1.00	71.80	TS20
ATOM	51120	CA	GLU	T	46	103.426	41.485	-43.063	1.00	71.80	TS20
ATOM	51121	CB	GLU	T	46	104.211	40.189	-42.865	1.00	127.38	TS20
ATOM	51122	CG	GLU	T	46	104.881	40.098	-41.518	1.00	127.38	TS20
ATOM	51123	CD	GLU	T	46	104.674	38.761	-40.860	1.00	127.38	TS20
ATOM	51124	OE1	GLU	T	46	105.040	37.738	-41.473	1.00	127.38	TS20
ATOM	51125	OE2	GLU	T	46	104.146	38.735	-39.729	1.00	127.38	TS20
ATOM	51126	C	GLU	T	46	101.946	41.149	-43.267	1.00	71.80	TS20
ATOM	51127	O	GLU	T	46	101.573	39.974	-43.348	1.00	71.80	TS20
ATOM	51128	N	GLY	T	47	101.109	42.178	-43.346	1.00	72.88	TS20
ATOM	51129	CA	GLY	T	47	99.693	41.963	-43.595	1.00	72.88	TS20
ATOM	51130	C	GLY	T	47	98.784	41.594	-42.440	1.00	72.88	TS20
ATOM	51131	O	GLY	T	47	97.983	42.420	-42.005	1.00	72.88	TS20
ATOM	51132	N	LYS	T	48	98.895	40.351	-41.969	1.00	80.23	TS20
ATOM	51133	CA	LYS	T	48	98.085	39.822	-40.865	1.00	80.23	TS20
ATOM	51134	CB	LYS	T	48	98.909	38.814	-40.067	1.00	94.24	TS20
ATOM	51135	CG	LYS	T	48	99.508	37.697	-40.907	1.00	94.24	TS20
ATOM	51136	CD	LYS	T	48	100.165	36.660	-40.009	1.00	94.24	TS20
ATOM	51137	CE	LYS	T	48	100.876	35.569	-40.792	1.00	94.24	TS20
ATOM	51138	NZ	LYS	T	48	102.070	36.087	-41.518	1.00	94.24	TS20
ATOM	51139	C	LYS	T	48	97.524	40.893	-39.923	1.00	80.23	TS20
ATOM	51140	O	LYS	T	48	98.100	41.176	-38.873	1.00	80.23	TS20
ATOM	51141	N	ALA	T	49	96.380	41.457	-40.306	1.00	73.63	TS20
ATOM	51142	CA	ALA	T	49	95.717	42.521	-39.552	1.00	73.63	TS20
ATOM	51143	CB	ALA	T	49	94.582	43.113	-40.393	1.00	85.80	TS20
ATOM	51144	C	ALA	T	49	95.173	42.103	-38.195	1.00	73.63	TS20
ATOM	51145	O	ALA	T	49	95.587	42.625	-37.155	1.00	73.63	TS20
ATOM	51146	N	GLU	T	50	94.225	41.173	-38.223	1.00	98.98	TS20
ATOM	51147	CA	GLU	T	50	93.587	40.687	-37.013	1.00	98.98	TS20
ATOM	51148	CB	GLU	T	50	92.785	39.417	-37.301	1.00	154.72	TS20
ATOM	51149	CG	GLU	T	50	91.278	39.598	-37.197	1.00	154.72	TS20
ATOM	51150	CD	GLU	T	50	90.542	38.283	-36.992	1.00	154.72	TS20
ATOM	51151	OE1	GLU	T	50	90.656	37.393	-37.862	1.00	154.72	TS20
ATOM	51152	OE2	GLU	T	50	89.851	38.138	-35.957	1.00	154.72	TS20
ATOM	51153	C	GLU	T	50	94.575	40.409	-35.901	1.00	98.98	TS20
ATOM	51154	O	GLU	T	50	94.739	41.220	-34.991	1.00	98.98	TS20
ATOM	51155	N	GLU	T	51	95.240	39.263	-35.988	1.00	80.74	TS20
ATOM	51156	CA	GLU	T	51	96.191	38.849	-34.969	1.00	80.74	TS20
ATOM	51157	CB	GLU	T	51	96.870	37.553	-35.396	1.00	111.26	TS20
ATOM	51158	CG	GLU	T	51	97.461	37.589	-36.776	1.00	111.26	TS20
ATOM	51159	CD	GLU	T	51	97.838	36.206	-37.253	1.00	111.26	TS20
ATOM	51160	OE1	GLU	T	51	98.554	35.497	-36.510	1.00	111.26	TS20
ATOM	51161	OE2	GLU	T	51	97.420	35.826	-38.368	1.00	111.26	TS20
ATOM	51162	C	GLU	T	51	97.236	39.889	-34.578	1.00	80.74	TS20
ATOM	51163	O	GLU	T	51	97.654	39.951	-33.413	1.00	80.74	TS20
ATOM	51164	N	ALA	T	52	97.660	40.708	-35.534	1.00	83.88	TS20
ATOM	51165	CA	ALA	T	52	98.649	41.734	-35.226	1.00	83.88	TS20
ATOM	51166	CB	ALA	T	52	98.878	42.623	-36.426	1.00	40.80	TS20
ATOM	51167	C	ALA	T	52	98.123	42.551	-34.051	1.00	83.88	TS20
ATOM	51168	O	ALA	T	52	98.785	42.652	-33.019	1.00	83.88	TS20
ATOM	51169	N	LEU	T	53	96.925	43.111	-34.208	1.00	51.90	TS20
ATOM	51170	CA	LEU	T	53	96.301	43.911	-33.155	1.00	51.90	TS20
ATOM	51171	CB	LEU	T	53	95.001	44.531	-33.672	1.00	62.35	TS20
ATOM	51172	CG	LEU	T	53	95.253	45.696	-34.639	1.00	62.35	TS20
ATOM	51173	CD1	LEU	T	53	94.107	45.865	-35.601	1.00	62.35	TS20
ATOM	51174	CD2	LEU	T	53	95.462	46.963	-33.842	1.00	62.35	TS20
ATOM	51175	C	LEU	T	53	96.042	43.084	-31.896	1.00	51.90	TS20
ATOM	51176	O	LEU	T	53	96.388	43.511	-30.787	1.00	51.90	TS20
ATOM	51177	N	LYS	T	54	95.450	41.901	-32.074	1.00	96.24	TS20
ATOM	51178	CA	LYS	T	54	95.157	40.992	-30.960	1.00	96.24	TS20



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ATOM	51179	CB	LYS	T	54	94.875	39.575	-31.473	1.00114.21	TS20
ATOM	51180	CG	LYS	T	54	93.410	39.173	-31.435	1.00114.21	TS20
ATOM	51181	CD	LYS	T	54	93.158	37.861	-32.174	1.00114.21	TS20
ATOM	51182	CE	LYS	T	54	91.663	37.588	-32.300	1.00114.21	TS20
ATOM	51183	NZ	LYS	T	54	91.370	36.398	-33.141	1.00114.21	TS20
ATOM	51184	C	LYS	T	54	96.355	40.948	-30.035	1.00 96.24	TS20
ATOM	51185	O	LYS	T	54	96.229	41.086	-28.818	1.00 96.24	TS20
ATOM	51186	N	ILE	T	55	97.521	40.748	-30.629	1.00 57.15	TS20
ATOM	51187	CA	ILE	T	55	98.756	40.696	-29.871	1.00 57.15	TS20
ATOM	51188	CB	ILE	T	55	99.894	40.202	-30.748	1.00 41.39	TS20
ATOM	51189	CG2	ILE	T	55	101.229	40.421	-30.062	1.00 41.39	TS20
ATOM	51190	CG1	ILE	T	55	99.650	38.738	-31.076	1.00 41.39	TS20
ATOM	51191	CD1	ILE	T	55	100.663	38.156	-32.022	1.00 41.39	TS20
ATOM	51192	C	ILE	T	55	99.108	42.076	-29.339	1.00 57.15	TS20
ATOM	51193	O	ILE	T	55	99.477	42.240	-28.173	1.00 57.15	TS20
ATOM	51194	N	MET	T	56	98.991	43.072	-30.204	1.00 47.42	TS20
ATOM	51195	CA	MET	T	56	99.303	44.423	-29.810	1.00 47.42	TS20
ATOM	51196	CB	MET	T	56	98.801	45.403	-30.853	1.00 82.66	TS20
ATOM	51197	CG	MET	T	56	99.401	46.764	-30.700	1.00 82.66	TS20
ATOM	51198	SD	MET	T	56	98.218	48.030	-31.104	1.00 82.66	TS20
ATOM	51199	CE	MET	T	56	98.440	48.112	-32.877	1.00 82.66	TS20
ATOM	51200	C	MET	T	56	98.657	44.718	-28.462	1.00 47.42	TS20
ATOM	51201	O	MET	T	56	99.304	45.292	-27.584	1.00 47.42	TS20
ATOM	51202	N	ARG	T	57	97.395	44.315	-28.285	1.00 54.06	TS20
ATOM	51203	CA	ARG	T	57	96.716	44.557	-27.008	1.00 54.06	TS20
ATOM	51204	CB	ARG	T	57	95.255	44.105	-27.053	1.00103.95	TS20
ATOM	51205	CG	ARG	T	57	94.357	44.978	-27.893	1.00103.95	TS20
ATOM	51206	CD	ARG	T	57	94.341	44.477	-29.316	1.00103.95	TS20
ATOM	51207	NE	ARG	T	57	93.013	44.042	-29.739	1.00103.95	TS20
ATOM	51208	CZ	ARG	T	57	92.215	43.253	-29.025	1.00103.95	TS20
ATOM	51209	NH1	ARG	T	57	92.600	42.802	-27.836	1.00103.95	TS20
ATOM	51210	NH2	ARG	T	57	91.029	42.909	-29.506	1.00103.95	TS20
ATOM	51211	C	ARG	T	57	97.408	43.893	-25.806	1.00 54.06	TS20
ATOM	51212	O	ARG	T	57	97.579	44.525	-24.760	1.00 54.06	TS20
ATOM	51213	N	LYS	T	58	97.799	42.627	-25.934	1.00 60.72	TS20
ATOM	51214	CA	LYS	T	58	98.474	41.961	-24.820	1.00 60.72	TS20
ATOM	51215	CB	LYS	T	58	98.885	40.533	-25.204	1.00103.24	TS20
ATOM	51216	CG	LYS	T	58	97.696	39.591	-25.464	1.00103.24	TS20
ATOM	51217	CD	LYS	T	58	98.144	38.154	-25.779	1.00103.24	TS20
ATOM	51218	CE	LYS	T	58	96.961	37.209	-26.039	1.00103.24	TS20
ATOM	51219	NZ	LYS	T	58	97.395	35.813	-26.379	1.00103.24	TS20
ATOM	51220	C	LYS	T	58	99.696	42.818	-24.510	1.00 60.72	TS20
ATOM	51221	O	LYS	T	58	100.013	43.103	-23.345	1.00 60.72	TS20
ATOM	51222	N	ALA	T	59	100.355	43.254	-25.579	1.00 37.41	TS20
ATOM	51223	CA	ALA	T	59	101.528	44.099	-25.462	1.00 37.41	TS20
ATOM	51224	CB	ALA	T	59	102.064	44.434	-26.844	1.00 70.28	TS20
ATOM	51225	C	ALA	T	59	101.125	45.371	-24.731	1.00 37.41	TS20
ATOM	51226	O	ALA	T	59	101.660	45.684	-23.663	1.00 37.41	TS20
ATOM	51227	N	GLU	T	60	100.177	46.103	-25.308	1.00 59.61	TS20
ATOM	51228	CA	GLU	T	60	99.731	47.327	-24.680	1.00 59.61	TS20
ATOM	51229	CB	GLU	T	60	98.438	47.847	-25.300	1.00 65.46	TS20
ATOM	51230	CG	GLU	T	60	97.801	48.955	-24.469	1.00 65.46	TS20
ATOM	51231	CD	GLU	T	60	96.748	49.738	-25.227	1.00 65.46	TS20
ATOM	51232	OE1	GLU	T	60	96.124	50.631	-24.616	1.00 65.46	TS20
ATOM	51233	OE2	GLU	T	60	96.550	49.470	-26.431	1.00 65.46	TS20
ATOM	51234	C	GLU	T	60	99.496	47.055	-23.215	1.00 59.61	TS20
ATOM	51235	O	GLU	T	60	99.855	47.872	-22.366	1.00 59.61	TS20
ATOM	51236	N	SER	T	61	98.910	45.896	-22.914	1.00 42.94	TS20
ATOM	51237	CA	SER	T	61	98.622	45.543	-21.532	1.00 42.94	TS20
ATOM	51238	CB	SER	T	61	97.851	44.242	-21.459	1.00 67.18	TS20
ATOM	51239	OG	SER	T	61	97.640	43.912	-20.102	1.00 67.18	TS20
ATOM	51240	C	SER	T	61	99.868	45.423	-20.675	1.00 42.94	TS20
ATOM	51241	O	SER	T	61	100.136	46.294	-19.856	1.00 42.94	TS20
ATOM	51242	N	LEU	T	62	100.633	44.356	-20.865	1.00 42.93	TS20
ATOM	51243	CA	LEU	T	62	101.842	44.159	-20.065	1.00 42.93	TS20
ATOM	51244	CB	LEU	T	62	102.773	43.144	-20.719	1.00 44.82	TS20
ATOM	51245	CG	LEU	T	62	102.166	41.809	-21.122	1.00 44.82	TS20
ATOM	51246	CD1	LEU	T	62	103.277	40.777	-21.153	1.00 44.82	TS20
ATOM	51247	CD2	LEU	T	62	101.086	41.404	-20.140	1.00 44.82	TS20
ATOM	51248	C	LEU	T	62	102.623	45.445	-19.830	1.00 42.93	TS20
ATOM	51249	O	LEU	T	62	103.260	45.618	-18.785	1.00 42.93	TS20
ATOM	51250	N	ILE	T	63	102.585	46.340	-20.807	1.00 39.07	TS20
ATOM	51251	CA	ILE	T	63	103.289	47.593	-20.670	1.00 39.07	TS20
ATOM	51252	CB	ILE	T	63	103.257	48.379	-21.974	1.00 32.05	TS20
ATOM	51253	CG2	ILE	T	63	103.842	49.773	-21.769	1.00 32.05	TS20
ATOM	51254	CG1	ILE	T	63	104.052	47.616	-23.029	1.00 32.05	TS20
ATOM	51255	CD1	ILE	T	63	104.300	48.412	-24.282	1.00 32.05	TS20



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ATOM	51256	C	ILE	T	63	102.677	48.423	-19.555	1.00	39.07	TS20
ATOM	51257	O	ILE	T	63	103.373	48.800	-18.614	1.00	39.07	TS20
ATOM	51258	N	ASP	T	64	101.378	48.702	-19.651	1.00	45.58	TS20
ATOM	51259	CA	ASP	T	64	100.696	49.489	-18.623	1.00	45.58	TS20
ATOM	51260	CB	ASP	T	64	99.209	49.659	-18.956	1.00	92.28	TS20
ATOM	51261	CG	ASP	T	64	98.918	50.946	-19.715	1.00	92.28	TS20
ATOM	51262	OD1	ASP	T	64	99.236	52.039	-19.194	1.00	92.28	TS20
ATOM	51263	OD2	ASP	T	64	98.362	50.863	-20.831	1.00	92.28	TS20
ATOM	51264	C	ASP	T	64	100.821	48.839	-17.254	1.00	45.58	TS20
ATOM	51265	O	ASP	T	64	100.856	49.521	-16.237	1.00	45.58	TS20
ATOM	51266	N	LYS	T	65	100.886	47.514	-17.239	1.00	51.67	TS20
ATOM	51267	CA	LYS	T	65	100.998	46.763	-16.001	1.00	51.67	TS20
ATOM	51268	CB	LYS	T	65	100.693	45.294	-16.270	1.00	53.84	TS20
ATOM	51269	CG	LYS	T	65	99.522	45.132	-17.215	1.00	53.84	TS20
ATOM	51270	CD	LYS	T	65	98.886	43.766	-17.125	1.00	53.84	TS20
ATOM	51271	CE	LYS	T	65	98.041	43.636	-15.870	1.00	53.84	TS20
ATOM	51272	NZ	LYS	T	65	97.441	42.268	-15.750	1.00	53.84	TS20
ATOM	51273	C	LYS	T	65	102.390	46.934	-15.420	1.00	51.67	TS20
ATOM	51274	O	LYS	T	65	102.553	47.126	-14.221	1.00	51.67	TS20
ATOM	51275	N	ALA	T	66	103.402	46.864	-16.268	1.00	54.33	TS20
ATOM	51276	CA	ALA	T	66	104.761	47.057	-15.796	1.00	54.33	TS20
ATOM	51277	CB	ALA	T	66	105.721	46.979	-16.960	1.00	45.56	TS20
ATOM	51278	C	ALA	T	66	104.857	48.437	-15.132	1.00	54.33	TS20
ATOM	51279	O	ALA	T	66	105.730	48.683	-14.309	1.00	54.33	TS20
ATOM	51280	N	ALA	T	67	103.956	49.339	-15.495	1.00	48.92	TS20
ATOM	51281	CA	ALA	T	67	103.973	50.682	-14.928	1.00	48.92	TS20
ATOM	51282	CB	ALA	T	67	103.324	51.669	-15.877	1.00	29.37	TS20
ATOM	51283	C	ALA	T	67	103.239	50.698	-13.613	1.00	48.92	TS20
ATOM	51284	O	ALA	T	67	103.313	51.677	-12.863	1.00	48.92	TS20
ATOM	51285	N	LYS	T	68	102.502	49.619	-13.354	1.00	56.41	TS20
ATOM	51286	CA	LYS	T	68	101.745	49.474	-12.114	1.00	56.41	TS20
ATOM	51287	CB	LYS	T	68	101.031	48.114	-12.102	1.00	124.98	TS20
ATOM	51288	CG	LYS	T	68	99.671	48.123	-11.435	1.00	124.98	TS20
ATOM	51289	CD	LYS	T	68	98.759	49.127	-12.107	1.00	124.98	TS20
ATOM	51290	CE	LYS	T	68	97.844	49.801	-11.090	1.00	124.98	TS20
ATOM	51291	NZ	LYS	T	68	97.002	50.883	-11.691	1.00	124.98	TS20
ATOM	51292	C	LYS	T	68	102.807	49.551	-11.013	1.00	56.41	TS20
ATOM	51293	O	LYS	T	68	102.794	50.448	-10.166	1.00	56.41	TS20
ATOM	51294	N	GLY	T	69	103.741	48.610	-11.060	1.00	95.91	TS20
ATOM	51295	CA	GLY	T	69	104.824	48.593	-10.101	1.00	95.91	TS20
ATOM	51296	C	GLY	T	69	105.929	49.473	-10.642	1.00	95.91	TS20
ATOM	51297	O	GLY	T	69	105.733	50.190	-11.628	1.00	95.91	TS20
ATOM	51298	N	SER	T	70	107.102	49.409	-10.025	1.00	49.70	TS20
ATOM	51299	CA	SER	T	70	108.213	50.242	-10.465	1.00	49.70	TS20
ATOM	51300	CB	SER	T	70	109.088	50.624	-9.258	1.00	35.79	TS20
ATOM	51301	OG	SER	T	70	109.567	49.479	-8.556	1.00	35.79	TS20
ATOM	51302	C	SER	T	70	109.087	49.667	-11.584	1.00	49.70	TS20
ATOM	51303	O	SER	T	70	110.246	50.037	-11.703	1.00	49.70	TS20
ATOM	51304	N	THR	T	71	108.544	48.783	-12.411	1.00	57.53	TS20
ATOM	51305	CA	THR	T	71	109.341	48.218	-13.494	1.00	57.53	TS20
ATOM	51306	CB	THR	T	71	108.695	46.990	-14.091	1.00	55.21	TS20
ATOM	51307	OG1	THR	T	71	108.109	46.213	-13.042	1.00	55.21	TS20
ATOM	51308	CG2	THR	T	71	109.740	46.161	-14.827	1.00	55.21	TS20
ATOM	51309	C	THR	T	71	109.515	49.227	-14.616	1.00	57.53	TS20
ATOM	51310	O	THR	T	71	110.635	49.534	-15.015	1.00	57.53	TS20
ATOM	51311	N	LEU	T	72	108.405	49.726	-15.144	1.00	76.68	TS20
ATOM	51312	CA	LEU	T	72	108.471	50.716	-16.201	1.00	76.68	TS20
ATOM	51313	CB	LEU	T	72	107.425	50.469	-17.264	1.00	32.75	TS20
ATOM	51314	CG	LEU	T	72	107.914	49.691	-18.465	1.00	32.75	TS20
ATOM	51315	CD1	LEU	T	72	106.877	49.848	-19.566	1.00	32.75	TS20
ATOM	51316	CD2	LEU	T	72	109.268	50.212	-18.927	1.00	32.75	TS20
ATOM	51317	C	LEU	T	72	108.207	52.070	-15.625	1.00	76.68	TS20
ATOM	51318	O	LEU	T	72	109.012	52.984	-15.756	1.00	76.68	TS20
ATOM	51319	N	HIS	T	73	107.049	52.198	-14.997	1.00	69.84	TS20
ATOM	51320	CA	HIS	T	73	106.653	53.458	-14.394	1.00	69.84	TS20
ATOM	51321	CB	HIS	T	73	107.454	53.694	-13.106	1.00	91.64	TS20
ATOM	51322	CG	HIS	T	73	106.745	53.260	-11.863	1.00	91.64	TS20
ATOM	51323	CD2	HIS	T	73	107.169	53.174	-10.580	1.00	91.64	TS20
ATOM	51324	ND1	HIS	T	73	105.410	52.917	-11.849	1.00	91.64	TS20
ATOM	51325	CE1	HIS	T	73	105.041	52.642	-10.611	1.00	91.64	TS20
ATOM	51326	NE2	HIS	T	73	106.090	52.789	-9.821	1.00	91.64	TS20
ATOM	51327	C	HIS	T	73	106.786	54.694	-15.299	1.00	69.84	TS20
ATOM	51328	O	HIS	T	73	107.643	54.767	-16.183	1.00	69.84	TS20
ATOM	51329	N	LYS	T	74	105.902	55.658	-15.053	1.00	69.89	TS20
ATOM	51330	CA	LYS	T	74	105.904	56.933	-15.753	1.00	69.89	TS20
ATOM	51331	CB	LYS	T	74	107.341	57.530	-15.783	1.00	47.10	TS20
ATOM	51332	CG	LYS	T	74	108.242	57.251	-14.589	1.00	47.10	TS20



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ATOM	51333	CD	LYS	T	74	108.210	58.382	-13.586	1.00	47.10	TS20
ATOM	51334	CE	LYS	T	74	109.260	58.127	-12.492	1.00	47.10	TS20
ATOM	51335	NZ	LYS	T	74	109.397	59.175	-11.404	1.00	47.10	TS20
ATOM	51336	C	LYS	T	74	105.380	56.891	-17.186	1.00	69.89	TS20
ATOM	51337	O	LYS	T	74	104.455	56.152	-17.539	1.00	69.89	TS20
ATOM	51338	N	ASN	T	75	106.037	57.730	-17.982	1.00	55.43	TS20
ATOM	51339	CA	ASN	T	75	105.796	57.937	-19.393	1.00	55.43	TS20
ATOM	51340	CB	ASN	T	75	106.241	59.349	-19.747	1.00	73.78	TS20
ATOM	51341	CG	ASN	T	75	106.158	60.290	-18.554	1.00	73.78	TS20
ATOM	51342	OD1	ASN	T	75	105.091	60.479	-17.978	1.00	73.78	TS20
ATOM	51343	ND2	ASN	T	75	107.288	60.876	-18.172	1.00	73.78	TS20
ATOM	51344	C	ASN	T	75	106.615	56.919	-20.169	1.00	55.43	TS20
ATOM	51345	O	ASN	T	75	106.616	56.913	-21.400	1.00	55.43	TS20
ATOM	51346	N	ALA	T	76	107.332	56.074	-19.432	1.00	54.48	TS20
ATOM	51347	CA	ALA	T	76	108.136	55.019	-20.035	1.00	54.48	TS20
ATOM	51348	CB	ALA	T	76	108.869	54.234	-18.966	1.00	81.81	TS20
ATOM	51349	C	ALA	T	76	107.108	54.140	-20.710	1.00	54.48	TS20
ATOM	51350	O	ALA	T	76	107.275	53.743	-21.867	1.00	54.48	TS20
ATOM	51351	N	ALA	T	77	106.033	53.852	-19.973	1.00	51.68	TS20
ATOM	51352	CA	ALA	T	77	104.944	53.047	-20.502	1.00	51.68	TS20
ATOM	51353	CB	ALA	T	77	103.884	52.844	-19.444	1.00	70.87	TS20
ATOM	51354	C	ALA	T	77	104.372	53.837	-21.672	1.00	51.68	TS20
ATOM	51355	O	ALA	T	77	104.242	53.326	-22.791	1.00	51.68	TS20
ATOM	51356	N	ALA	T	78	104.063	55.104	-21.411	1.00	48.90	TS20
ATOM	51357	CA	ALA	T	78	103.497	55.974	-22.433	1.00	48.90	TS20
ATOM	51358	CB	ALA	T	78	103.516	57.412	-21.957	1.00	36.98	TS20
ATOM	51359	C	ALA	T	78	104.210	55.855	-23.778	1.00	48.90	TS20
ATOM	51360	O	ALA	T	78	103.559	55.641	-24.814	1.00	48.90	TS20
ATOM	51361	N	ARG	T	79	105.539	55.990	-23.764	1.00	57.52	TS20
ATOM	51362	CA	ARG	T	79	106.312	55.901	-24.998	1.00	57.52	TS20
ATOM	51363	CB	ARG	T	79	107.804	56.027	-24.743	1.00	52.12	TS20
ATOM	51364	CG	ARG	T	79	108.246	57.315	-24.133	1.00	52.12	TS20
ATOM	51365	CD	ARG	T	79	109.716	57.501	-24.435	1.00	52.12	TS20
ATOM	51366	NE	ARG	T	79	110.483	56.264	-24.266	1.00	52.12	TS20
ATOM	51367	CZ	ARG	T	79	111.165	55.943	-23.167	1.00	52.12	TS20
ATOM	51368	NH1	ARG	T	79	111.181	56.770	-22.122	1.00	52.12	TS20
ATOM	51369	NH2	ARG	T	79	111.845	54.795	-23.116	1.00	52.12	TS20
ATOM	51370	C	ARG	T	79	106.074	54.558	-25.636	1.00	57.52	TS20
ATOM	51371	O	ARG	T	79	105.466	54.458	-26.705	1.00	57.52	TS20
ATOM	51372	N	ARG	T	80	106.581	53.528	-24.969	1.00	55.06	TS20
ATOM	51373	CA	ARG	T	80	106.448	52.158	-25.432	1.00	55.06	TS20
ATOM	51374	CB	ARG	T	80	106.323	51.238	-24.232	1.00	59.08	TS20
ATOM	51375	CG	ARG	T	80	107.427	51.390	-23.237	1.00	59.08	TS20
ATOM	51376	CD	ARG	T	80	108.518	50.435	-23.547	1.00	59.08	TS20
ATOM	51377	NE	ARG	T	80	109.654	50.675	-22.686	1.00	59.08	TS20
ATOM	51378	CZ	ARG	T	80	110.685	49.852	-22.592	1.00	59.08	TS20
ATOM	51379	NH1	ARG	T	80	110.703	48.730	-23.311	1.00	59.08	TS20
ATOM	51380	NH2	ARG	T	80	111.697	50.157	-21.791	1.00	59.08	TS20
ATOM	51381	C	ARG	T	80	105.196	52.032	-26.280	1.00	55.06	TS20
ATOM	51382	O	ARG	T	80	105.257	51.737	-27.474	1.00	55.06	TS20
ATOM	51383	N	LYS	T	81	104.060	52.280	-25.640	1.00	65.59	TS20
ATOM	51384	CA	LYS	T	81	102.770	52.191	-26.292	1.00	65.59	TS20
ATOM	51385	CB	LYS	T	81	101.684	52.631	-25.316	1.00	61.26	TS20
ATOM	51386	CG	LYS	T	81	101.693	51.789	-24.049	1.00	61.26	TS20
ATOM	51387	CD	LYS	T	81	100.827	52.381	-22.963	1.00	61.26	TS20
ATOM	51388	CE	LYS	T	81	99.382	52.477	-23.397	1.00	61.26	TS20
ATOM	51389	NZ	LYS	T	81	98.581	53.117	-22.319	1.00	61.26	TS20
ATOM	51390	C	LYS	T	81	102.704	52.997	-27.579	1.00	65.59	TS20
ATOM	51391	O	LYS	T	81	102.536	52.417	-28.657	1.00	65.59	TS20
ATOM	51392	N	SER	T	82	102.847	54.319	-27.489	1.00	53.68	TS20
ATOM	51393	CA	SER	T	82	102.781	55.135	-28.698	1.00	53.68	TS20
ATOM	51394	CB	SER	T	82	103.057	56.602	-28.394	1.00	54.98	TS20
ATOM	51395	OG	SER	T	82	104.429	56.807	-28.154	1.00	54.98	TS20
ATOM	51396	C	SER	T	82	103.774	54.646	-29.754	1.00	53.68	TS20
ATOM	51397	O	SER	T	82	103.444	54.566	-30.936	1.00	53.68	TS20
ATOM	51398	N	ARG	T	83	104.993	54.322	-29.347	1.00	48.94	TS20
ATOM	51399	CA	ARG	T	83	105.951	53.843	-30.326	1.00	48.94	TS20
ATOM	51400	CB	ARG	T	83	107.300	53.566	-29.670	1.00	83.26	TS20
ATOM	51401	CG	ARG	T	83	108.119	54.819	-29.514	1.00	83.26	TS20
ATOM	51402	CD	ARG	T	83	109.357	54.598	-28.687	1.00	83.26	TS20
ATOM	51403	NE	ARG	T	83	110.160	55.814	-28.605	1.00	83.26	TS20
ATOM	51404	CZ	ARG	T	83	111.183	55.975	-27.774	1.00	83.26	TS20
ATOM	51405	NH1	ARG	T	83	111.531	54.997	-26.942	1.00	83.26	TS20
ATOM	51406	NH2	ARG	T	83	111.863	57.112	-27.782	1.00	83.26	TS20
ATOM	51407	C	ARG	T	83	105.413	52.581	-30.978	1.00	48.94	TS20
ATOM	51408	O	ARG	T	83	105.543	52.390	-32.189	1.00	48.94	TS20
ATOM	51409	N	LEU	T	84	104.784	51.733	-30.171	1.00	67.84	TS20



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ATOM	51410	CA	LEU	T	84	104.235	50.472	-30.657	1.00	67.84	TS20
ATOM	51411	CB	LEU	T	84	103.902	49.570	-29.461	1.00	39.04	TS20
ATOM	51412	CG	LEU	T	84	103.594	48.074	-29.616	1.00	39.04	TS20
ATOM	51413	CD1	LEU	T	84	102.108	47.892	-29.467	1.00	39.04	TS20
ATOM	51414	CD2	LEU	T	84	104.109	47.515	-30.946	1.00	39.04	TS20
ATOM	51415	C	LEU	T	84	103.009	50.679	-31.545	1.00	67.84	TS20
ATOM	51416	O	LEU	T	84	102.957	50.166	-32.664	1.00	67.84	TS20
ATOM	51417	N	MET	T	85	102.027	51.430	-31.059	1.00	71.80	TS20
ATOM	51418	CA	MET	T	85	100.829	51.678	-31.852	1.00	71.80	TS20
ATOM	51419	CB	MET	T	85	99.810	52.481	-31.040	1.00	73.22	TS20
ATOM	51420	CG	MET	T	85	99.165	51.660	-29.938	1.00	73.22	TS20
ATOM	51421	SD	MET	T	85	98.069	52.584	-28.851	1.00	73.22	TS20
ATOM	51422	CE	MET	T	85	96.683	52.861	-29.920	1.00	73.22	TS20
ATOM	51423	C	MET	T	85	101.176	52.406	-33.146	1.00	71.80	TS20
ATOM	51424	O	MET	T	85	100.623	52.108	-34.207	1.00	71.80	TS20
ATOM	51425	N	ARG	T	86	102.105	53.353	-33.057	1.00	76.13	TS20
ATOM	51426	CA	ARG	T	86	102.526	54.105	-34.227	1.00	76.13	TS20
ATOM	51427	CB	ARG	T	86	103.611	55.118	-33.839	1.00	96.45	TS20
ATOM	51428	CG	ARG	T	86	103.439	56.468	-34.513	1.00	96.45	TS20
ATOM	51429	CD	ARG	T	86	103.700	57.633	-33.566	1.00	96.45	TS20
ATOM	51430	NE	ARG	T	86	102.809	58.756	-33.876	1.00	96.45	TS20
ATOM	51431	CZ	ARG	T	86	102.767	59.910	-33.208	1.00	96.45	TS20
ATOM	51432	NH1	ARG	T	86	103.577	60.118	-32.178	1.00	96.45	TS20
ATOM	51433	NH2	ARG	T	86	101.899	60.856	-33.555	1.00	96.45	TS20
ATOM	51434	C	ARG	T	86	103.039	53.100	-35.261	1.00	76.13	TS20
ATOM	51435	O	ARG	T	86	102.446	52.960	-36.332	1.00	76.13	TS20
ATOM	51436	N	LYS	T	87	104.115	52.381	-34.932	1.00	53.30	TS20
ATOM	51437	CA	LYS	T	87	104.685	51.374	-35.835	1.00	53.30	TS20
ATOM	51438	CB	LYS	T	87	105.674	50.475	-35.091	1.00	83.06	TS20
ATOM	51439	CG	LYS	T	87	106.885	51.185	-34.536	1.00	83.06	TS20
ATOM	51440	CD	LYS	T	87	107.695	50.258	-33.630	1.00	83.06	TS20
ATOM	51441	CE	LYS	T	87	108.851	50.998	-32.965	1.00	83.06	TS20
ATOM	51442	NZ	LYS	T	87	109.468	50.193	-31.878	1.00	83.06	TS20
ATOM	51443	C	LYS	T	87	103.615	50.476	-36.464	1.00	53.30	TS20
ATOM	51444	O	LYS	T	87	103.418	50.484	-37.680	1.00	53.30	TS20
ATOM	51445	N	VAL	T	88	102.920	49.711	-35.624	1.00	53.92	TS20
ATOM	51446	CA	VAL	T	88	101.901	48.780	-36.102	1.00	53.92	TS20
ATOM	51447	CB	VAL	T	88	101.104	48.140	-34.937	1.00	62.32	TS20
ATOM	51448	CG1	VAL	T	88	99.966	47.286	-35.497	1.00	62.32	TS20
ATOM	51449	CG2	VAL	T	88	102.031	47.274	-34.081	1.00	62.32	TS20
ATOM	51450	C	VAL	T	88	100.907	49.344	-37.097	1.00	53.92	TS20
ATOM	51451	O	VAL	T	88	100.712	48.762	-38.164	1.00	53.92	TS20
ATOM	51452	N	ARG	T	89	100.270	50.461	-36.763	1.00	67.00	TS20
ATOM	51453	CA	ARG	T	89	99.301	51.028	-37.692	1.00	67.00	TS20
ATOM	51454	CB	ARG	T	89	98.637	52.281	-37.123	1.00	66.76	TS20
ATOM	51455	CG	ARG	T	89	97.809	52.973	-38.191	1.00	66.76	TS20
ATOM	51456	CD	ARG	T	89	97.080	54.186	-37.702	1.00	66.76	TS20
ATOM	51457	NE	ARG	T	89	95.937	53.844	-36.871	1.00	66.76	TS20
ATOM	51458	CZ	ARG	T	89	94.922	54.671	-36.649	1.00	66.76	TS20
ATOM	51459	NH1	ARG	T	89	94.923	55.874	-37.208	1.00	66.76	TS20
ATOM	51460	NH2	ARG	T	89	93.913	54.307	-35.865	1.00	66.76	TS20
ATOM	51461	C	ARG	T	89	99.934	51.373	-39.040	1.00	67.00	TS20
ATOM	51462	O	ARG	T	89	99.431	50.985	-40.101	1.00	67.00	TS20
ATOM	51463	N	GLN	T	90	101.037	52.108	-38.991	1.00	82.60	TS20
ATOM	51464	CA	GLN	T	90	101.725	52.504	-40.203	1.00	82.60	TS20
ATOM	51465	CB	GLN	T	90	102.973	53.298	-39.849	1.00	90.94	TS20
ATOM	51466	CG	GLN	T	90	102.706	54.374	-38.822	1.00	90.94	TS20
ATOM	51467	CD	GLN	T	90	103.931	55.211	-38.529	1.00	90.94	TS20
ATOM	51468	OE1	GLN	T	90	105.052	54.694	-38.492	1.00	90.94	TS20
ATOM	51469	NE2	GLN	T	90	103.728	56.510	-38.304	1.00	90.94	TS20
ATOM	51470	C	GLN	T	90	102.098	51.280	-41.024	1.00	82.60	TS20
ATOM	51471	O	GLN	T	90	102.045	51.317	-42.250	1.00	82.60	TS20
ATOM	51472	N	LEU	T	91	102.463	50.192	-40.350	1.00	51.51	TS20
ATOM	51473	CA	LEU	T	91	102.848	48.958	-41.036	1.00	51.51	TS20
ATOM	51474	CB	LEU	T	91	103.474	47.981	-40.041	1.00	39.11	TS20
ATOM	51475	CG	LEU	T	91	104.884	48.388	-39.622	1.00	39.11	TS20
ATOM	51476	CD1	LEU	T	91	105.074	48.202	-38.124	1.00	39.11	TS20
ATOM	51477	CD2	LEU	T	91	105.890	47.574	-40.421	1.00	39.11	TS20
ATOM	51478	C	LEU	T	91	101.650	48.318	-41.719	1.00	51.51	TS20
ATOM	51479	O	LEU	T	91	101.782	47.625	-42.737	1.00	51.51	TS20
ATOM	51480	N	LEU	T	92	100.479	48.557	-41.144	1.00	79.48	TS20
ATOM	51481	CA	LEU	T	92	99.254	48.031	-41.701	1.00	79.48	TS20
ATOM	51482	CB	LEU	T	92	98.169	47.981	-40.635	1.00	49.05	TS20
ATOM	51483	CG	LEU	T	92	98.505	46.914	-39.589	1.00	49.05	TS20
ATOM	51484	CD1	LEU	T	92	97.557	46.993	-38.403	1.00	49.05	TS20
ATOM	51485	CD2	LEU	T	92	98.437	45.544	-40.248	1.00	49.05	TS20
ATOM	51486	C	LEU	T	92	98.837	48.905	-42.871	1.00	79.48	TS20



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ATOM	51487	O	LEU	T	92	97.854	48.617	-43.549	1.00	79.48	TS20
ATOM	51488	N	GLU	T	93	99.587	49.984	-43.094	1.00	70.12	TS20
ATOM	51489	CA	GLU	T	93	99.337	50.875	-44.227	1.00	70.12	TS20
ATOM	51490	CB	GLU	T	93	99.917	52.268	-43.976	1.00123.89		TS20
ATOM	51491	CG	GLU	T	93	99.337	52.987	-42.752	1.00123.89		TS20
ATOM	51492	CD	GLU	T	93	97.821	53.152	-42.807	1.00123.89		TS20
ATOM	51493	OE1	GLU	T	93	97.266	53.866	-41.942	1.00123.89		TS20
ATOM	51494	OE2	GLU	T	93	97.183	52.566	-43.707	1.00123.89		TS20
ATOM	51495	C	GLU	T	93	100.080	50.173	-45.354	1.00	70.12	TS20
ATOM	51496	O	GLU	T	93	101.102	50.634	-45.865	1.00	70.12	TS20
ATOM	51497	N	ALA	T	94	99.549	49.006	-45.685	1.00	85.04	TS20
ATOM	51498	CA	ALA	T	94	100.084	48.148	-46.715	1.00	85.04	TS20
ATOM	51499	CB	ALA	T	94	101.290	47.395	-46.171	1.00	46.28	TS20
ATOM	51500	C	ALA	T	94	98.949	47.183	-47.078	1.00	85.04	TS20
ATOM	51501	O	ALA	T	94	99.188	45.999	-47.340	1.00	85.04	TS20
ATOM	51502	N	ALA	T	95	97.723	47.725	-47.076	1.00124.44		TS20
ATOM	51503	CA	ALA	T	95	96.457	47.028	-47.389	1.00124.44		TS20
ATOM	51504	CB	ALA	T	95	96.709	45.808	-48.292	1.00	98.46	TS20
ATOM	51505	C	ALA	T	95	95.674	46.597	-46.143	1.00124.44		TS20
ATOM	51506	O	ALA	T	95	94.618	45.964	-46.246	1.00124.44		TS20
ATOM	51507	N	GLY	T	96	96.200	46.964	-44.975	1.00	57.87	TS20
ATOM	51508	CA	GLY	T	96	95.602	46.616	-43.695	1.00	57.87	TS20
ATOM	51509	C	GLY	T	96	94.093	46.563	-43.548	1.00	57.87	TS20
ATOM	51510	O	GLY	T	96	93.465	45.561	-43.890	1.00	57.87	TS20
ATOM	51511	N	ALA	T	97	93.515	47.646	-43.038	1.00	99.08	TS20
ATOM	51512	CA	ALA	T	97	92.079	47.725	-42.779	1.00	99.08	TS20
ATOM	51513	CB	ALA	T	97	91.281	46.985	-43.873	1.00	20.78	TS20
ATOM	51514	C	ALA	T	97	91.903	47.048	-41.410	1.00	99.08	TS20
ATOM	51515	O	ALA	T	97	91.394	45.926	-41.313	1.00	99.08	TS20
ATOM	51516	N	PRO	T	98	92.326	47.740	-40.330	1.00119.38		TS20
ATOM	51517	CD	PRO	T	98	92.617	49.186	-40.341	1.00	79.36	TS20
ATOM	51518	CA	PRO	T	98	92.258	47.264	-38.946	1.00119.38		TS20
ATOM	51519	CB	PRO	T	98	92.617	48.510	-38.129	1.00	79.36	TS20
ATOM	51520	CG	PRO	T	98	92.134	49.620	-38.971	1.00	79.36	TS20
ATOM	51521	C	PRO	T	98	90.941	46.645	-38.517	1.00119.38		TS20
ATOM	51522	O	PRO	T	98	90.009	47.344	-38.119	1.00119.38		TS20
ATOM	51523	N	LEU	T	99	90.880	45.321	-38.598	1.00103.02		TS20
ATOM	51524	CA	LEU	T	99	89.691	44.590	-38.200	1.00103.02		TS20
ATOM	51525	CB	LEU	T	99	89.819	43.119	-38.589	1.00	95.08	TS20
ATOM	51526	CG	LEU	T	99	89.954	42.890	-40.093	1.00	95.08	TS20
ATOM	51527	CD1	LEU	T	99	89.986	41.392	-40.361	1.00	95.08	TS20
ATOM	51528	CD2	LEU	T	99	88.790	43.567	-40.839	1.00	95.08	TS20
ATOM	51529	C	LEU	T	99	89.528	44.715	-36.696	1.00103.02		TS20
ATOM	51530	O	LEU	T	99	88.874	45.641	-36.216	1.00103.02		TS20
ATOM	51531	N	ILE	T	100	90.137	43.787	-35.962	1.00102.55		TS20
ATOM	51532	CA	ILE	T	100	90.074	43.774	-34.500	1.00102.55		TS20
ATOM	51533	CB	ILE	T	100	91.207	42.903	-33.916	1.00176.24		TS20
ATOM	51534	CG2	ILE	T	100	91.202	42.973	-32.398	1.00176.24		TS20
ATOM	51535	CG1	ILE	T	100	91.026	41.461	-34.386	1.00176.24		TS20
ATOM	51536	CD1	ILE	T	100	92.102	40.532	-33.928	1.00176.24		TS20
ATOM	51537	C	ILE	T	100	90.172	45.186	-33.924	1.00102.55		TS20
ATOM	51538	O	ILE	T	100	89.534	45.506	-32.914	1.00102.55		TS20
ATOM	51539	N	GLY	T	101	90.976	46.017	-34.586	1.00161.41		TS20
ATOM	51540	CA	GLY	T	101	91.170	47.396	-34.177	1.00161.41		TS20
ATOM	51541	C	GLY	T	101	91.088	47.634	-32.686	1.00161.41		TS20
ATOM	51542	O	GLY	T	101	90.519	48.630	-32.249	1.00161.41		TS20
ATOM	51543	N	GLY	T	102	91.648	46.717	-31.905	1.00	98.98	TS20
ATOM	51544	CA	GLY	T	102	91.620	46.875	-30.466	1.00	98.98	TS20
ATOM	51545	C	GLY	T	102	92.293	48.177	-30.075	1.00	98.98	TS20
ATOM	51546	O	GLY	T	102	91.691	49.244	-30.179	1.00	98.98	TS20
ATOM	51547	N	GLY	T	103	93.539	48.093	-29.620	1.00159.51		TS20
ATOM	51548	CA	GLY	T	103	94.269	49.288	-29.235	1.00159.51		TS20
ATOM	51549	C	GLY	T	103	94.559	50.146	-30.449	1.00159.51		TS20
ATOM	51550	O	GLY	T	103	95.714	50.393	-30.788	1.00159.51		TS20
ATOM	51551	N	LEU	T	104	93.496	50.592	-31.108	1.00	53.63	TS20
ATOM	51552	CA	LEU	T	104	93.590	51.423	-32.304	1.00	53.63	TS20
ATOM	51553	CB	LEU	T	104	94.006	50.601	-33.522	1.00	76.06	TS20
ATOM	51554	CG	LEU	T	104	95.502	50.472	-33.775	1.00	76.06	TS20
ATOM	51555	CD1	LEU	T	104	95.725	49.951	-35.179	1.00	76.06	TS20
ATOM	51556	CD2	LEU	T	104	96.161	51.825	-33.613	1.00	76.06	TS20
ATOM	51557	C	LEU	T	104	92.266	52.085	-32.621	1.00	53.63	TS20
ATOM	51558	O	LEU	T	104	91.326	51.427	-33.066	1.00	53.63	TS20
ATOM	51559	N	SER	T	105	92.201	53.390	-32.395	1.00	66.73	TS20
ATOM	51560	CA	SER	T	105	91.001	54.165	-32.665	1.00	66.73	TS20
ATOM	51561	CB	SER	T	105	91.054	55.473	-31.868	1.00	62.09	TS20
ATOM	51562	OG	SER	T	105	90.144	56.425	-32.374	1.00	62.09	TS20
ATOM	51563	C	SER	T	105	90.919	54.454	-34.162	1.00	66.73	TS20



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ATOM	51564	O	SER	T	105	91.560	55.373	-34.660	1.00	66.73	TS20
ATOM	51565	N	ALA	T	106	90.148	53.653	-34.885	1.00	124.08	TS20
ATOM	51566	CA	ALA	T	106	90.010	53.864	-36.320	1.00	124.08	TS20
ATOM	51567	CB	ALA	T	106	89.532	52.586	-37.017	1.00	62.26	TS20
ATOM	51568	C	ALA	T	106	89.005	54.980	-36.518	1.00	124.08	TS20
ATOM	51569	O	ALA	T	106	89.274	55.870	-37.355	1.00	124.08	TS20
ATOM	51570	OXT	ALA	T	106	87.964	54.940	-35.826	1.00	91.23	TS20
TER	51570		ALA	T	106						TS20
ATOM	51571	C	GLY	V	2	249.179	126.750	-1.766	1.00	71.35	VTHX
ATOM	51572	O	GLY	V	2	249.792	126.287	-0.803	1.00	71.35	VTHX
ATOM	51573	N	GLY	V	2	250.959	125.792	-3.185	1.00	71.35	VTHX
ATOM	51574	CA	GLY	V	2	249.804	126.734	-3.143	1.00	71.35	VTHX
ATOM	51575	N	LYS	V	3	247.959	127.271	-1.669	1.00	57.43	VTHX
ATOM	51576	CA	LYS	V	3	247.259	127.353	-0.389	1.00	57.43	VTHX
ATOM	51577	CB	LYS	V	3	245.775	127.673	-0.613	1.00	60.46	VTHX
ATOM	51578	CG	LYS	V	3	245.520	129.031	-1.239	1.00	60.46	VTHX
ATOM	51579	CD	LYS	V	3	244.072	129.186	-1.648	1.00	60.46	VTHX
ATOM	51580	CE	LYS	V	3	243.889	130.383	-2.579	1.00	60.46	VTHX
ATOM	51581	NZ	LYS	V	3	242.505	130.449	-3.164	1.00	60.46	VTHX
ATOM	51582	C	LYS	V	3	247.376	126.064	0.410	1.00	57.43	VTHX
ATOM	51583	O	LYS	V	3	247.175	126.056	1.622	1.00	57.43	VTHX
ATOM	51584	N	GLY	V	4	247.724	124.976	-0.267	1.00	35.73	VTHX
ATOM	51585	CA	GLY	V	4	247.812	123.703	0.414	1.00	35.73	VTHX
ATOM	51586	C	GLY	V	4	249.136	123.330	1.036	1.00	35.73	VTHX
ATOM	51587	O	GLY	V	4	249.157	122.495	1.941	1.00	35.73	VTHX
ATOM	51588	N	ASP	V	5	250.235	123.906	0.548	1.00	62.81	VTHX
ATOM	51589	CA	ASP	V	5	251.575	123.609	1.077	1.00	62.81	VTHX
ATOM	51590	CB	ASP	V	5	252.649	124.043	0.077	1.00	113.15	VTHX
ATOM	51591	CG	ASP	V	5	254.023	123.505	0.425	1.00	113.15	VTHX
ATOM	51592	OD1	ASP	V	5	254.354	123.446	1.632	1.00	113.15	VTHX
ATOM	51593	OD2	ASP	V	5	254.773	123.153	-0.513	1.00	113.15	VTHX
ATOM	51594	C	ASP	V	5	251.794	124.353	2.391	1.00	62.81	VTHX
ATOM	51595	O	ASP	V	5	252.062	125.559	2.391	1.00	62.81	VTHX
ATOM	51596	N	ARG	V	6	251.707	123.633	3.508	1.00	100.31	VTHX
ATOM	51597	CA	ARG	V	6	251.854	124.279	4.798	1.00	100.31	VTHX
ATOM	51598	CB	ARG	V	6	251.196	123.441	5.904	1.00	106.81	VTHX
ATOM	51599	CG	ARG	V	6	251.930	122.202	6.334	1.00	106.81	VTHX
ATOM	51600	CD	ARG	V	6	251.324	121.693	7.638	1.00	106.81	VTHX
ATOM	51601	NE	ARG	V	6	252.242	120.841	8.396	1.00	106.81	VTHX
ATOM	51602	CZ	ARG	V	6	252.100	120.530	9.685	1.00	106.81	VTHX
ATOM	51603	NH1	ARG	V	6	251.065	120.998	10.383	1.00	106.81	VTHX
ATOM	51604	NH2	ARG	V	6	253.004	119.756	10.283	1.00	106.81	VTHX
ATOM	51605	C	ARG	V	6	253.273	124.666	5.186	1.00	100.31	VTHX
ATOM	51606	O	ARG	V	6	253.679	124.503	6.329	1.00	100.31	VTHX
ATOM	51607	N	ARG	V	7	254.027	125.182	4.226	1.00	60.99	VTHX
ATOM	51608	CA	ARG	V	7	255.375	125.649	4.494	1.00	60.99	VTHX
ATOM	51609	CB	ARG	V	7	256.341	124.484	4.794	1.00	63.82	VTHX
ATOM	51610	CG	ARG	V	7	256.610	123.530	3.673	1.00	63.82	VTHX
ATOM	51611	CD	ARG	V	7	257.995	122.873	3.824	1.00	63.82	VTHX
ATOM	51612	NE	ARG	V	7	258.018	121.689	4.686	1.00	63.82	VTHX
ATOM	51613	CZ	ARG	V	7	258.987	120.766	4.677	1.00	63.82	VTHX
ATOM	51614	NH1	ARG	V	7	260.028	120.878	3.853	1.00	63.82	VTHX
ATOM	51615	NH2	ARG	V	7	258.906	119.708	5.481	1.00	63.82	VTHX
ATOM	51616	C	ARG	V	7	255.869	126.543	3.348	1.00	60.99	VTHX
ATOM	51617	O	ARG	V	7	256.976	126.389	2.809	1.00	60.99	VTHX
ATOM	51618	N	THR	V	8	254.995	127.488	3.001	1.00	56.81	VTHX
ATOM	51619	CA	THR	V	8	255.216	128.508	1.975	1.00	56.81	VTHX
ATOM	51620	CB	THR	V	8	254.674	128.083	0.586	1.00	97.61	VTHX
ATOM	51621	OG1	THR	V	8	253.244	127.989	0.628	1.00	97.61	VTHX
ATOM	51622	CG2	THR	V	8	255.252	126.744	0.173	1.00	97.61	VTHX
ATOM	51623	C	THR	V	8	254.405	129.715	2.462	1.00	56.81	VTHX
ATOM	51624	O	THR	V	8	253.688	129.623	3.463	1.00	56.81	VTHX
ATOM	51625	N	ARG	V	9	254.496	130.843	1.768	1.00	65.90	VTHX
ATOM	51626	CA	ARG	V	9	253.751	132.019	2.200	1.00	65.90	VTHX
ATOM	51627	CB	ARG	V	9	253.988	133.180	1.227	1.00	125.66	VTHX
ATOM	51628	CG	ARG	V	9	253.892	134.555	1.869	1.00	125.66	VTHX
ATOM	51629	CD	ARG	V	9	254.925	134.699	2.977	1.00	125.66	VTHX
ATOM	51630	NE	ARG	V	9	254.739	135.919	3.758	1.00	125.66	VTHX
ATOM	51631	CZ	ARG	V	9	255.416	136.208	4.867	1.00	125.66	VTHX
ATOM	51632	NH1	ARG	V	9	256.330	135.364	5.329	1.00	125.66	VTHX
ATOM	51633	NH2	ARG	V	9	255.175	137.340	5.518	1.00	125.66	VTHX
ATOM	51634	C	ARG	V	9	252.253	131.689	2.284	1.00	65.90	VTHX
ATOM	51635	O	ARG	V	9	251.670	131.642	3.377	1.00	65.90	VTHX
ATOM	51636	N	ARG	V	10	251.651	131.439	1.121	1.00	67.10	VTHX
ATOM	51637	CA	ARG	V	10	250.232	131.123	1.011	1.00	67.10	VTHX
ATOM	51638	CB	ARG	V	10	249.888	130.792	-0.435	1.00	101.20	VTHX
ATOM	51639	CG	ARG	V	10	249.795	132.021	-1.302	1.00	101.20	VTHX



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ATOM	51640	CD	ARG	V	10	250.037	131.689	-2.755	1.00101.20	VTHX
ATOM	51641	NE	ARG	V	10	249.822	132.849	-3.618	1.00101.20	VTHX
ATOM	51642	CZ	ARG	V	10	250.094	132.873	-4.922	1.00101.20	VTHX
ATOM	51643	NH1	ARG	V	10	250.598	131.795	-5.511	1.00101.20	VTHX
ATOM	51644	NH2	ARG	V	10	249.855	133.968	-5.638	1.00101.20	VTHX
ATOM	51645	C	ARG	V	10	249.792	129.996	1.919	1.00 67.10	VTHX
ATOM	51646	O	ARG	V	10	248.698	130.031	2.468	1.00 67.10	VTHX
ATOM	51647	N	GLY	V	11	250.637	128.990	2.084	1.00 74.84	VTHX
ATOM	51648	CA	GLY	V	11	250.267	127.889	2.955	1.00 74.84	VTHX
ATOM	51649	C	GLY	V	11	249.936	128.385	4.352	1.00 74.84	VTHX
ATOM	51650	O	GLY	V	11	248.853	128.132	4.879	1.00 74.84	VTHX
ATOM	51651	N	LYS	V	12	250.877	129.108	4.947	1.00 63.00	VTHX
ATOM	51652	CA	LYS	V	12	250.692	129.638	6.285	1.00 63.00	VTHX
ATOM	51653	CB	LYS	V	12	251.991	130.267	6.789	1.00 67.69	VTHX
ATOM	51654	CG	LYS	V	12	252.818	129.373	7.714	1.00 67.69	VTHX
ATOM	51655	CD	LYS	V	12	253.214	128.064	7.054	1.00 67.69	VTHX
ATOM	51656	CE	LYS	V	12	254.225	127.325	7.909	1.00 67.69	VTHX
ATOM	51657	NZ	LYS	V	12	253.773	127.202	9.320	1.00 67.69	VTHX
ATOM	51658	C	LYS	V	12	249.562	130.651	6.367	1.00 63.00	VTHX
ATOM	51659	O	LYS	V	12	248.887	130.737	7.389	1.00 63.00	VTHX
ATOM	51660	N	ILE	V	13	249.357	131.433	5.313	1.00 54.25	VTHX
ATOM	51661	CA	ILE	V	13	248.262	132.399	5.344	1.00 54.25	VTHX
ATOM	51662	CB	ILE	V	13	248.153	133.262	4.076	1.00 32.06	VTHX
ATOM	51663	CG2	ILE	V	13	246.909	134.141	4.178	1.00 32.06	VTHX
ATOM	51664	CG1	ILE	V	13	249.387	134.123	3.877	1.00 32.06	VTHX
ATOM	51665	CD1	ILE	V	13	249.153	135.205	2.829	1.00 32.06	VTHX
ATOM	51666	C	ILE	V	13	246.949	131.636	5.369	1.00 54.25	VTHX
ATOM	51667	O	ILE	V	13	246.050	131.904	6.172	1.00 54.25	VTHX
ATOM	51668	N	TRP	V	14	246.851	130.702	4.431	1.00 49.35	VTHX
ATOM	51669	CA	TRP	V	14	245.664	129.902	4.260	1.00 49.35	VTHX
ATOM	51670	CB	TRP	V	14	245.911	128.804	3.242	1.00 67.65	VTHX
ATOM	51671	CG	TRP	V	14	244.648	128.222	2.767	1.00 67.65	VTHX
ATOM	51672	CD2	TRP	V	14	244.015	127.045	3.267	1.00 67.65	VTHX
ATOM	51673	CE2	TRP	V	14	242.801	126.900	2.575	1.00 67.65	VTHX
ATOM	51674	CE3	TRP	V	14	244.356	126.100	4.237	1.00 67.65	VTHX
ATOM	51675	CD1	TRP	V	14	243.819	128.734	1.814	1.00 67.65	VTHX
ATOM	51676	NE1	TRP	V	14	242.704	127.944	1.692	1.00 67.65	VTHX
ATOM	51677	CZ2	TRP	V	14	241.925	125.845	2.821	1.00 67.65	VTHX
ATOM	51678	CZ3	TRP	V	14	243.489	125.056	4.481	1.00 67.65	VTHX
ATOM	51679	CH2	TRP	V	14	242.288	124.936	3.777	1.00 67.65	VTHX
ATOM	51680	C	TRP	V	14	245.234	129.291	5.562	1.00 49.35	VTHX
ATOM	51681	O	TRP	V	14	244.055	129.324	5.896	1.00 49.35	VTHX
ATOM	51682	N	ARG	V	15	246.188	128.711	6.282	1.00 56.00	VTHX
ATOM	51683	CA	ARG	V	15	245.892	128.106	7.571	1.00 56.00	VTHX
ATOM	51684	CB	ARG	V	15	246.890	127.001	7.911	1.00 73.13	VTHX
ATOM	51685	CG	ARG	V	15	246.563	125.623	7.361	1.00 73.13	VTHX
ATOM	51686	CD	ARG	V	15	247.407	124.637	8.133	1.00 73.13	VTHX
ATOM	51687	NE	ARG	V	15	247.424	123.265	7.632	1.00 73.13	VTHX
ATOM	51688	CZ	ARG	V	15	248.255	122.331	8.104	1.00 73.13	VTHX
ATOM	51689	NH1	ARG	V	15	249.116	122.634	9.068	1.00 73.13	VTHX
ATOM	51690	NH2	ARG	V	15	248.231	121.094	7.627	1.00 73.13	VTHX
ATOM	51691	C	ARG	V	15	245.952	129.182	8.644	1.00 56.00	VTHX
ATOM	51692	O	ARG	V	15	245.948	128.880	9.834	1.00 56.00	VTHX
ATOM	51693	N	GLY	V	16	246.013	130.439	8.211	1.00 79.07	VTHX
ATOM	51694	CA	GLY	V	16	246.070	131.555	9.140	1.00 79.07	VTHX
ATOM	51695	C	GLY	V	16	247.053	131.353	10.277	1.00 79.07	VTHX
ATOM	51696	O	GLY	V	16	246.682	131.406	11.449	1.00 79.07	VTHX
ATOM	51697	N	THR	V	17	248.310	131.103	9.936	1.00 78.82	VTHX
ATOM	51698	CA	THR	V	17	249.329	130.906	10.950	1.00 78.82	VTHX
ATOM	51699	CB	THR	V	17	249.580	129.412	11.230	1.00 41.67	VTHX
ATOM	51700	CG1	THR	V	17	249.972	128.746	10.025	1.00 41.67	VTHX
ATOM	51701	CG2	THR	V	17	248.336	128.773	11.768	1.00 41.67	VTHX
ATOM	51702	C	THR	V	17	250.646	131.542	10.555	1.00 78.82	VTHX
ATOM	51703	O	THR	V	17	250.789	132.111	9.466	1.00 78.82	VTHX
ATOM	51704	N	TYR	V	18	251.605	131.445	11.467	1.00 63.63	VTHX
ATOM	51705	CA	TYR	V	18	252.927	131.989	11.242	1.00 63.63	VTHX
ATOM	51706	CB	TYR	V	18	253.126	133.257	12.052	1.00 59.63	VTHX
ATOM	51707	CG	TYR	V	18	252.089	134.319	11.820	1.00 59.63	VTHX
ATOM	51708	CD1	TYR	V	18	250.924	134.358	12.582	1.00 59.63	VTHX
ATOM	51709	CE1	TYR	V	18	249.991	135.376	12.410	1.00 59.63	VTHX
ATOM	51710	CD2	TYR	V	18	252.297	135.317	10.869	1.00 59.63	VTHX
ATOM	51711	CE2	TYR	V	18	251.375	136.339	10.683	1.00 59.63	VTHX
ATOM	51712	CZ	TYR	V	18	250.219	136.370	11.458	1.00 59.63	VTHX
ATOM	51713	OH	TYR	V	18	249.299	137.394	11.278	1.00 59.63	VTHX
ATOM	51714	C	TYR	V	18	253.950	130.964	11.680	1.00 63.63	VTHX
ATOM	51715	O	TYR	V	18	253.670	130.103	12.516	1.00 63.63	VTHX
ATOM	51716	N	GLY	V	19	255.143	131.062	11.116	1.00 68.98	VTHX



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ATOM	51717	CA	GLY	V	19	256.188	130.127	11.468	1.00	68.98	VTHX
ATOM	51718	C	GLY	V	19	257.466	130.558	10.797	1.00	68.98	VTHX
ATOM	51719	O	GLY	V	19	257.694	131.751	10.585	1.00	68.98	VTHX
ATOM	51720	N	LYS	V	20	258.302	129.593	10.452	1.00	82.04	VTHX
ATOM	51721	CA	LYS	V	20	259.542	129.937	9.805	1.00	82.04	VTHX
ATOM	51722	CB	LYS	V	20	260.448	128.718	9.673	1.00	64.28	VTHX
ATOM	51723	CG	LYS	V	20	261.859	129.103	9.255	1.00	64.28	VTHX
ATOM	51724	CD	LYS	V	20	262.818	127.925	9.200	1.00	64.28	VTHX
ATOM	51725	CE	LYS	V	20	262.692	127.168	7.900	1.00	64.28	VTHX
ATOM	51726	NZ	LYS	V	20	263.928	126.391	7.654	1.00	64.28	VTHX
ATOM	51727	C	LYS	V	20	259.245	130.496	8.429	1.00	82.04	VTHX
ATOM	51728	O	LYS	V	20	259.973	131.357	7.935	1.00	82.04	VTHX
ATOM	51729	N	TYR	V	21	258.158	130.027	7.822	1.00	82.77	VTHX
ATOM	51730	CA	TYR	V	21	257.804	130.464	6.480	1.00	82.77	VTHX
ATOM	51731	CB	TYR	V	21	257.199	129.288	5.723	1.00	64.64	VTHX
ATOM	51732	CG	TYR	V	21	258.152	128.120	5.687	1.00	64.64	VTHX
ATOM	51733	CD1	TYR	V	21	258.136	127.140	6.689	1.00	64.64	VTHX
ATOM	51734	CE1	TYR	V	21	259.097	126.108	6.717	1.00	64.64	VTHX
ATOM	51735	CD2	TYR	V	21	259.140	128.042	4.705	1.00	64.64	VTHX
ATOM	51736	CE2	TYR	V	21	260.106	127.021	4.723	1.00	64.64	VTHX
ATOM	51737	CZ	TYR	V	21	260.083	126.062	5.729	1.00	64.64	VTHX
ATOM	51738	OH	TYR	V	21	261.060	125.092	5.745	1.00	64.64	VTHX
ATOM	51739	C	TYR	V	21	256.920	131.701	6.383	1.00	82.77	VTHX
ATOM	51740	O	TYR	V	21	256.729	132.259	5.301	1.00	82.77	VTHX
ATOM	51741	N	ARG	V	22	256.379	132.133	7.511	1.00	85.06	VTHX
ATOM	51742	CA	ARG	V	22	255.563	133.336	7.542	1.00	85.06	VTHX
ATOM	51743	CB	ARG	V	22	254.080	133.024	7.384	1.00	54.93	VTHX
ATOM	51744	CG	ARG	V	22	253.212	134.274	7.303	1.00	54.93	VTHX
ATOM	51745	CD	ARG	V	22	251.741	133.965	7.576	1.00	54.93	VTHX
ATOM	51746	NE	ARG	V	22	250.902	135.147	7.388	1.00	54.93	VTHX
ATOM	51747	CZ	ARG	V	22	249.643	135.248	7.806	1.00	54.93	VTHX
ATOM	51748	NH1	ARG	V	22	249.074	134.229	8.444	1.00	54.93	VTHX
ATOM	51749	NH2	ARG	V	22	248.957	136.368	7.593	1.00	54.93	VTHX
ATOM	51750	C	ARG	V	22	255.815	133.938	8.905	1.00	85.06	VTHX
ATOM	51751	O	ARG	V	22	255.068	133.701	9.855	1.00	85.06	VTHX
ATOM	51752	N	PRO	V	23	256.894	134.715	9.023	1.00	88.74	VTHX
ATOM	51753	CD	PRO	V	23	257.838	135.077	7.956	1.00	96.82	VTHX
ATOM	51754	CA	PRO	V	23	257.265	135.358	10.281	1.00	88.74	VTHX
ATOM	51755	CB	PRO	V	23	258.626	135.974	9.963	1.00	96.82	VTHX
ATOM	51756	CG	PRO	V	23	259.096	135.229	8.724	1.00	96.82	VTHX
ATOM	51757	C	PRO	V	23	256.237	136.421	10.618	1.00	88.74	VTHX
ATOM	51758	O	PRO	V	23	255.472	136.836	9.748	1.00	88.74	VTHX
ATOM	51759	N	ARG	V	24	256.214	136.858	11.872	1.00	93.44	VTHX
ATOM	51760	CA	ARG	V	24	255.285	137.902	12.272	1.00	93.44	VTHX
ATOM	51761	CB	ARG	V	24	255.291	138.063	13.784	1.00	88.05	VTHX
ATOM	51762	CG	ARG	V	24	254.650	136.907	14.498	1.00	88.05	VTHX
ATOM	51763	CD	ARG	V	24	253.245	136.695	13.988	1.00	88.05	VTHX
ATOM	51764	NE	ARG	V	24	252.594	135.580	14.664	1.00	88.05	VTHX
ATOM	51765	CZ	ARG	V	24	252.121	135.633	15.902	1.00	88.05	VTHX
ATOM	51766	NH1	ARG	V	24	252.224	136.758	16.599	1.00	88.05	VTHX
ATOM	51767	NH2	ARG	V	24	251.557	134.559	16.445	1.00	88.05	VTHX
ATOM	51768	C	ARG	V	24	255.672	139.220	11.601	1.00	93.44	VTHX
ATOM	51769	O	ARG	V	24	254.799	139.964	11.142	1.00	93.44	VTHX
ATOM	51770	N	LYS	V	25	256.983	139.487	11.552	1.00	128.66	VTHX
ATOM	51771	CA	LYS	V	25	257.579	140.682	10.927	1.00	128.66	VTHX
ATOM	51772	CB	LYS	V	25	256.661	141.907	11.048	1.00	110.25	VTHX
ATOM	51773	CG	LYS	V	25	255.863	142.224	9.778	1.00	110.25	VTHX
ATOM	51774	CD	LYS	V	25	255.149	143.562	9.899	1.00	110.25	VTHX
ATOM	51775	CE	LYS	V	25	254.487	143.967	8.595	1.00	110.25	VTHX
ATOM	51776	NZ	LYS	V	25	253.888	145.331	8.691	1.00	110.25	VTHX
ATOM	51777	C	LYS	V	25	258.950	141.034	11.509	1.00	128.66	VTHX
ATOM	51778	O	LYS	V	25	259.387	140.343	12.451	1.00	128.66	VTHX
ATOM	51779	OXT	LYS	V	25	259.570	142.000	11.015	1.00	139.18	VTHX
TER	51779		LYS	V	25						VTHX
ATOM	51780	C1	TET	W	1	205.369	111.297	2.731	1.00	19.13	WTE1
ATOM	51781	O2	TET	W	1	204.261	111.831	2.945	1.00	19.13	WTE1
ATOM	51782	C3	TET	W	1	206.147	111.344	1.473	1.00	19.13	WTE1
ATOM	51783	C4	TET	W	1	205.710	112.107	0.248	1.00	19.13	WTE1
ATOM	51784	O5	TET	W	1	204.580	112.744	0.167	1.00	19.13	WTE1
ATOM	51785	N6	TET	W	1	206.645	112.233	-0.796	1.00	19.13	WTE1
ATOM	51786	C7	TET	W	1	207.400	110.639	1.434	1.00	19.13	WTE1
ATOM	51787	O8	TET	W	1	208.454	111.052	0.849	1.00	19.13	WTE1
ATOM	51788	C9	TET	W	1	207.400	109.211	2.160	1.00	19.13	WTE1
ATOM	51789	N10	TET	W	1	208.838	108.782	2.481	1.00	19.13	WTE1
ATOM	51790	C11	TET	W	1	209.591	109.643	3.496	1.00	19.13	WTE1
ATOM	51791	C12	TET	W	1	208.893	107.318	2.952	1.00	19.13	WTE1
ATOM	51792	C13	TET	W	1	206.529	109.074	3.487	1.00	19.13	WTE1



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ATOM	51793	C14	TET	W	1	205.270	108.248	3.238	1.00	19.13	WTE1
ATOM	51794	C15	TET	W	1	204.560	107.982	4.623	1.00	19.13	WTE1
ATOM	51795	C16	TET	W	1	203.187	107.208	4.516	1.00	19.13	WTE1
ATOM	51796	O17	TET	W	1	202.239	108.156	3.866	1.00	19.13	WTE1
ATOM	51797	C18	TET	W	1	203.351	105.913	3.674	1.00	19.13	WTE1
ATOM	51798	C19	TET	W	1	202.633	106.959	5.937	1.00	19.13	WTE1
ATOM	51799	C20	TET	W	1	201.989	105.741	6.284	1.00	19.13	WTE1
ATOM	51800	C21	TET	W	1	201.491	105.520	7.616	1.00	19.13	WTE1
ATOM	51801	C22	TET	W	1	201.652	106.514	8.601	1.00	19.13	WTE1
ATOM	51802	C23	TET	W	1	202.289	107.739	8.278	1.00	19.13	WTE1
ATOM	51803	O24	TET	W	1	202.422	108.653	9.266	1.00	19.13	WTE1
ATOM	51804	C25	TET	W	1	202.793	107.976	6.944	1.00	19.13	WTE1
ATOM	51805	C26	TET	W	1	203.474	109.278	6.616	1.00	19.13	WTE1
ATOM	51806	O27	TET	W	1	203.268	110.334	7.356	1.00	19.13	WTE1
ATOM	51807	C28	TET	W	1	204.389	109.288	5.457	1.00	19.13	WTE1
ATOM	51808	C29	TET	W	1	205.069	110.431	5.136	1.00	19.13	WTE1
ATOM	51809	O30	TET	W	1	204.949	111.607	5.833	1.00	19.13	WTE1
ATOM	51810	C31	TET	W	1	206.071	110.497	3.939	1.00	19.13	WTE1
ATOM	51811	O32	TET	W	1	207.244	111.331	4.278	1.00	19.13	WTE1
TER	51811		TET	W	1						WTE1
ATOM	51812	C1	TET	Y	1	161.460	79.322	-23.928	1.00	19.13	YTE2
ATOM	51813	O2	TET	Y	1	160.731	79.709	-24.816	1.00	19.13	YTE2
ATOM	51814	C3	TET	Y	1	162.066	78.001	-23.855	1.00	19.13	YTE2
ATOM	51815	C4	TET	Y	1	161.834	76.956	-24.954	1.00	19.13	YTE2
ATOM	51816	O5	TET	Y	1	161.067	77.130	-25.984	1.00	19.13	YTE2
ATOM	51817	N6	TET	Y	1	162.544	75.781	-24.910	1.00	19.13	YTE2
ATOM	51818	C7	TET	Y	1	162.921	77.732	-22.706	1.00	19.13	YTE2
ATOM	51819	O8	TET	Y	1	164.055	77.177	-22.774	1.00	19.13	YTE2
ATOM	51820	C9	TET	Y	1	162.331	78.232	-21.266	1.00	19.13	YTE2
ATOM	51821	N10	TET	Y	1	163.346	78.151	-20.032	1.00	19.13	YTE2
ATOM	51822	C11	TET	Y	1	164.770	77.594	-20.181	1.00	19.13	YTE2
ATOM	51823	C12	TET	Y	1	163.440	79.494	-19.301	1.00	19.13	YTE2
ATOM	51824	C13	TET	Y	1	161.614	79.695	-21.287	1.00	19.13	YTE2
ATOM	51825	C14	TET	Y	1	160.086	79.587	-21.029	1.00	19.13	YTE2
ATOM	51826	C15	TET	Y	1	159.437	81.032	-20.873	1.00	19.13	YTE2
ATOM	51827	C16	TET	Y	1	157.833	81.045	-20.681	1.00	19.13	YTE2
ATOM	51828	O17	TET	Y	1	157.272	80.531	-21.956	1.00	19.13	YTE2
ATOM	51829	C18	TET	Y	1	157.376	80.090	-19.525	1.00	19.13	YTE2
ATOM	51830	C19	TET	Y	1	157.322	82.557	-20.503	1.00	19.13	YTE2
ATOM	51831	C20	TET	Y	1	156.225	82.881	-19.616	1.00	19.13	YTE2
ATOM	51832	C21	TET	Y	1	155.785	84.259	-19.451	1.00	19.13	YTE2
ATOM	51833	C22	TET	Y	1	156.424	85.330	-20.143	1.00	19.13	YTE2
ATOM	51834	C23	TET	Y	1	157.506	85.066	-21.036	1.00	19.13	YTE2
ATOM	51835	O24	TET	Y	1	158.058	86.174	-21.660	1.00	19.13	YTE2
ATOM	51836	C25	TET	Y	1	157.989	83.656	-21.232	1.00	19.13	YTE2
ATOM	51837	C26	TET	Y	1	159.144	83.336	-22.181	1.00	19.13	YTE2
ATOM	51838	O27	TET	Y	1	159.477	84.227	-23.112	1.00	19.13	YTE2
ATOM	51839	C28	TET	Y	1	159.886	82.017	-22.013	1.00	19.13	YTE2
ATOM	51840	C29	TET	Y	1	160.961	81.705	-22.864	1.00	19.13	YTE2
ATOM	51841	O30	TET	Y	1	161.394	82.541	-23.883	1.00	19.13	YTE2
ATOM	51842	C31	TET	Y	1	161.827	80.351	-22.736	1.00	19.13	YTE2
ATOM	51843	O32	TET	Y	1	163.281	80.580	-23.049	1.00	19.13	YTE2
TER	51843		TET	Y	1						YTE2
HETATM	51844	MG	MG	U	10	189.071	87.561	19.236	0.88	35.51	UION
HETATM	51845	MG	MG	U	23	235.803	113.740	-7.375	1.35	35.51	UION
HETATM	51846	MG	MG	U	24	228.772	111.519	13.550	1.42	35.51	UION
HETATM	51847	MG	MG	U	27	165.263	106.023	-5.335	0.92	35.51	UION
HETATM	51848	MG	MG	U	32	158.160	112.766	-63.647	0.76	35.51	UION
HETATM	51849	MG	MG	U	34	173.486	113.730	-2.487	0.59	35.51	UION
HETATM	51850	MG	MG	U	42	114.781	64.642	18.555	1.14	35.51	UION
HETATM	51851	MG	MG	U	45	133.681	123.755	-58.415	0.90	35.51	UION
HETATM	51852	MG	MG	U	48	171.247	94.381	-49.695	1.42	35.51	UION
HETATM	51853	MG	MG	U	49	178.071	94.130	-52.667	1.47	35.51	UION
HETATM	51854	MG	MG	U	50	180.066	86.731	-56.753	1.36	35.51	UION
HETATM	51855	MG	MG	U	53	199.074	98.103	-54.465	0.85	35.51	UION
HETATM	51856	MG	MG	U	54	162.832	105.820	-38.310	1.56	35.51	UION
HETATM	51857	MG	MG	U	55	159.773	127.614	-44.980	1.27	35.51	UION
HETATM	51858	MG	MG	U	59	166.974	109.608	17.163	1.36	35.51	UION
HETATM	51859	MG	MG	U	60	150.471	99.981	-8.748	1.07	35.51	UION
HETATM	51860	MG	MG	U	61	180.370	108.702	-2.279	0.94	35.51	UION
HETATM	51861	MG	MG	U	63	159.318	105.881	-16.338	1.30	35.51	UION
HETATM	51862	MG	MG	U	65	118.145	102.020	-26.371	1.16	35.51	UION
HETATM	51863	MG	MG	U	68	166.087	126.870	-31.922	0.98	35.51	UION
HETATM	51864	MG	MG	U	70	157.980	115.559	-16.062	1.00	35.51	UION
HETATM	51865	MG	MG	U	71	161.073	131.667	-23.314	1.18	35.51	UION
HETATM	51866	MG	MG	U	73	168.422	90.378	-12.539	0.98	35.51	UION
HETATM	51867	MG	MG	U	75	222.985	126.639	-21.492	1.29	35.51	UION



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HETATM51868	MG	MG	U	76	217.565	136.439	-12.441	1.09	35.51	UION
HETATM51869	MG	MG	U	77	221.015	131.032	-12.192	0.38	35.51	UION
HETATM51870	MG	MG	U	78	219.137	125.084	-13.928	0.76	35.51	UION
HETATM51871	MG	MG	U	79	233.156	139.376	-2.986	1.44	35.51	UION
HETATM51872	MG	MG	U	81	167.237	131.613	-6.860	0.98	35.51	UION
HETATM51873	MG	MG	U	82	125.086	96.797	26.670	1.16	35.51	UION
HETATM51874	MG	MG	U	86	130.613	111.765	-37.094	0.96	35.51	UION
HETATM51875	MG	MG	U	87	126.371	118.484	-56.667	0.80	35.51	UION
HETATM51876	MG	MG	U	90	209.670	110.777	10.478	1.32	35.51	UION
HETATM51877	MG	MG	U	91	231.391	110.460	25.327	0.77	35.51	UION
HETATM51878	MG	MG	U	92	233.293	122.121	26.543	1.17	35.51	UION
HETATM51879	MG	MG	U	95	202.880	115.991	9.950	1.13	35.51	UION
HETATM51880	MG	MG	U	113	148.129	102.738	-4.323	1.33	35.51	UION
HETATM51881	MG	MG	U	114	114.634	51.885	-12.273	1.25	35.51	UION
HETATM51882	MG	MG	U	115	192.304	107.455	-8.442	0.95	35.51	UION
HETATM51883	MG	MG	U	116	194.585	106.308	-6.940	0.54	35.51	UION
HETATM51884	MG	MG	U	117	187.213	101.361	22.632	1.01	35.51	UION
HETATM51885	MG	MG	U	118	169.002	104.638	-25.666	1.51	35.51	UION
HETATM51886	MG	MG	U	126	168.639	74.831	-43.367	0.50	35.51	UION
HETATM51887	MG	MG	U	130	205.002	143.838	-0.017	1.39	35.51	UION
HETATM51888	MG	MG	U	132	171.271	125.006	-16.546	1.21	35.51	UION
HETATM51889	MG	MG	U	133	197.634	136.835	-14.593	1.21	35.51	UION
HETATM51890	MG	MG	U	134	194.432	144.396	-5.733	1.05	35.51	UION
HETATM51891	MG	MG	U	136	144.168	73.270	-19.820	0.90	35.51	UION
HETATM51892	MG	MG	U	149	186.642	103.610	-43.146	1.07	35.51	UION
HETATM51893	MG	MG	U	150	185.314	96.569	-38.982	0.99	35.51	UION
HETATM51894	MG	MG	U	151	192.800	101.718	-31.413	1.32	35.51	UION
HETATM51895	MG	MG	U	152	196.386	102.673	-26.325	1.61	35.51	UION
HETATM51896	MG	MG	U	153	194.055	104.872	-30.625	1.54	35.51	UION
HETATM51897	MG	MG	U	160	112.222	24.934	-3.440	0.89	35.51	UION
HETATM51898	MG	MG	U	161	92.167	45.233	-15.245	0.97	35.51	UION
HETATM51899	MG	MG	U	162	84.473	59.092	-17.027	0.78	35.51	UION
HETATM51900	MG	MG	U	167	144.406	70.323	-7.425	1.36	35.51	UION
HETATM51901	MG	MG	U	169	134.745	54.671	6.007	1.34	35.51	UION
HETATM51902	MG	MG	U	170	118.662	64.405	20.585	0.83	35.51	UION
HETATM51903	MG	MG	U	174	200.219	97.676	-48.520	1.34	35.51	UION
HETATM51904	MG	MG	U	178	196.850	91.503	-40.784	1.42	35.51	UION
HETATM51905	MG	MG	U	183	203.308	120.438	13.374	0.88	35.51	UION
HETATM51906	MG	MG	U	186	255.400	124.129	-4.148	1.23	35.51	UION
HETATM51907	MG	MG	U	201	147.807	105.610	-18.698	1.08	35.51	UION
HETATM51908	MG	MG	U	210	116.931	97.955	-9.416	0.59	35.51	UION
HETATM51909	MG	MG	U	211	140.379	100.735	-43.030	0.90	35.51	UION
HETATM51910	MG	MG	U	212	150.071	112.522	-21.156	0.36	35.51	UION
HETATM51911	MG	MG	U	213	138.819	109.510	-17.281	0.65	35.51	UION
HETATM51912	MG	MG	U	214	145.985	91.319	26.748	0.97	35.51	UION
HETATM51913	MG	MG	U	215	135.757	111.145	12.717	0.78	35.51	UION
HETATM51914	MG	MG	U	216	172.531	93.103	18.038	1.10	35.51	UION
HETATM51915	MG	MG	U	217	154.064	103.593	45.838	0.95	35.51	UION
HETATM51916	MG	MG	U	218	177.406	98.658	22.142	0.72	35.51	UION
HETATM51917	MG	MG	U	219	172.461	99.051	15.275	0.89	35.51	UION
HETATM51918	MG	MG	U	220	185.528	96.280	6.328	0.82	35.51	UION
HETATM51919	MG	MG	U	221	134.395	85.539	-30.983	0.73	35.51	UION
HETATM51920	MG	MG	U	222	129.359	62.800	-29.577	0.55	35.51	UION
HETATM51921	MG	MG	U	223	130.392	79.918	-19.587	0.75	35.51	UION
HETATM51922	MG	MG	U	224	137.566	84.504	-23.471	0.34	35.51	UION
HETATM51923	MG	MG	U	225	101.676	45.288	-3.419	0.99	35.51	UION
HETATM51924	MG	MG	U	226	126.228	54.391	1.250	0.71	35.51	UION
HETATM51925	MG	MG	U	227	138.705	100.940	-12.663	0.64	35.51	UION
HETATM51926	MG	MG	U	228	109.454	34.321	19.269	0.89	35.51	UION
HETATM51927	MG	MG	U	229	114.982	46.386	7.450	0.95	35.51	UION
HETATM51928	MG	MG	U	230	109.982	53.673	1.075	0.38	35.51	UION
HETATM51929	MG	MG	U	231	111.236	53.625	-8.841	0.50	35.51	UION
HETATM51930	MG	MG	U	232	105.431	55.155	-0.549	0.61	35.51	UION
HETATM51931	MG	MG	U	233	108.700	54.107	-2.300	0.39	35.51	UION
HETATM51932	MG	MG	U	234	114.749	55.408	1.408	0.68	35.51	UION
HETATM51933	MG	MG	U	235	111.885	54.898	-1.393	1.03	35.51	UION
HETATM51934	MG	MG	U	236	112.126	54.583	-4.165	0.40	35.51	UION
HETATM51935	MG	MG	U	237	118.137	53.153	3.524	0.45	35.51	UION
HETATM51936	MG	MG	U	238	114.238	53.126	-2.109	0.60	35.51	UION
HETATM51937	MG	MG	U	239	115.984	54.076	-5.843	0.53	35.51	UION
HETATM51938	MG	MG	U	240	117.619	56.805	-7.560	0.42	35.51	UION
HETATM51939	ZN	ZN	U	190	216.073	127.338	24.685	0.79	44.34	UION
HETATM51940	ZN	ZN	U	300	153.977	113.323	39.873	1.28	44.34	UION
HETATM51941	MG	MG	U	308	204.765	111.378	8.307	1.03	23.94	UION

END



